

Master keyword index to volumes 529–553 (2006)

$\alpha 7$

Nicotinic receptor; Nicotine; [^3H]Methyllycaconitine; cAMP; PKC; Upregulation (Nuutinen, S. (544) 21)

A20

Influenza virus; NF- κB ; Bronchial epithelium; Inflammation (Onose, A. (541) 198)

A-77636

Appetite; Anorexia; Dopamine; Food intake; Meal pattern; Obesity (Cooper, S.J. (532) 253)

Intracellular calcium; Nitric oxide; Artery; Human (Buus, N.H. (535) 243)

Noradrenaline; Cytosolic calcium; Artery; Heart failure; Infarction (Trautner, S. (537) 143)

Mesenteric artery; Neuropeptide Y; Electrical field stimulation; Noradrenaline; BIBP 3226; (Non-obese diabetic-mice) (Gradin, K.A. (539) 184)

Alzheimer's disease; Presynaptic boutons; Amyloid beta protein; Dystrophic neurites; Glutamate; GABA (Bell, K.F.S. (545) 11)

Endothelium-dependent relaxation; Aorta; *+db/+db* mice; Caveolin-1 (Lam, T.Y. (546) 134)

Adenosine; Ischemia; Myocyte; Postconditioning (Lu, J. (549) 133)

5-HT; Memory; Cognition; Water maze; *In vivo* microdialysis (Hirst, W.D. (553) 109)

A549 cell

Arachidonic acid; Ca^{2+} mobilization; Diadenosine polyphosphate; iNOS (inducible nitric oxide synthase) (Laubinger, W. (543) 1)

ABC transporter

Pentoxifylline; Carboxylated metabolite; TNF- α ; Macrophage; Endothelium (Fantin, M. (535) 301)

ACAT (Acyl-coenzyme A:cholesterol acyltransferase)

Hypercholesterolemia; Atherosclerosis; Pactimibe (Kitayama, K. (540) 121)

Hypercholesterolemia; Pactimibe; Inhibitor (Kitayama, K. (543) 123)

ACAT inhibition

Platycodin D; Cholesterol lowering; Anti-obesity; Farnesoid X receptor (Zhao, H.L. (537) 166)

ACAT inhibitor

Atherosclerosis; Plaque; Collagen (Kitayama, K. (539) 81)

ACE inhibitor

Myeloperoxidase; LDL; Captopril; Apolipoprotein B-100 (Van Antwerpen, P. (537) 31)

ACEA (Arachidonyl-2-chloroethylamide)

Cannabinoid CB $_1$ receptor; Chimney test; Interaction index; Isobolographic transformation; Maximal electroshock; Neuromuscular grip strength; Pharmacokinetic interaction; Protective index; Valproic acid (Luszczki, J.J. (547) 65)

Acetaminophen

β -glucan; Glutathione; Lipid peroxidation; Oxidative injury; Tumour necrosis factor- α (Toklu, H.Z. (543) 133)

Cyclooxygenase; Prostaglandins (Censarek, P. (551) 50)

Acetylcholine

Pilocarpine; Muscarinic receptor; Olfactory discrimination; Social recognition memory; Aging; (Rat) (Prediger, R.D.S. (531) 176)

Airway; Muscarinic receptor; Nicotinic receptor; Airway smooth muscle (Racké, K. (533) 57)

Ketamine; Nicotinic receptor; Microdialysis; Spinal cord (Abelson, K.S.P. (534) 122)

Choline; $\alpha 3\beta 4$ nicotinic receptor; $\alpha 7$ nicotinic receptor; Voltage-dependence (González-Rubio, J.M. (535) 53)

Acetylcholine release

Rho-kinase; Trachea; Smooth muscle contraction; Cholinergic nerve (Fernandes, L. (550) 155)

Acetylcholinesterase

Gomisin A; Memory; Passive avoidance test; Y-maze test; Morris water maze (Kim, D.H. (542) 129)

Alzheimer's disease; Cortical culture; Glutamate; Nicotinic acetylcholine receptor; Neurotoxicity (Takada-Takatori, Y. (549) 19)

Pyridinium oxime; Antidote; Pralidoxime; Obidoxime; Trimedoxime; HI-6; HL6-7; Warfare nerve agent; Organophosphorus insecticide (Jokanović, M. (553) 10)

Acetylcholinesterase inhibitor

Donepezil; Glutamate excitotoxicity; LDH release; Intracellular calcium concentration; Primary cultured cerebral cortical neurons (Akasofu, S. (530) 215)

Acetylsalicylic acid

Anxiety; Nociception; Antinociception; Diazepam; Yohimbine (Jiménez-Velázquez, G. (547) 83)

Lymphatic regeneration; Dexamethasone; Micronized purified flavonoid fraction; Inflammation (Greco, K.V. (551) 131)

Acidic media

Transient receptor potential vanilloid 1; Cough; Asthma exacerbation (Geppetti, P. (533) 207)

Aconitase

Antioxidant; Closed cranial impact; Mn (III) porphyrin; Superoxide dismutase; Traumatic brain injury; (Mouse) (Leinenweber, S.B. (531) 126)

Acquired long QT syndrome

Maprotiline; Arrhythmia; *HERG* potassium channel; Torsade de pointes; I_{Kr} ; QT interval; Rapid delayed rectifier (Ferrer-Villada, T. (531) 1)

Acridine orange

Palladacycle; K562; *Bcl-2/Bax*; Apoptosis; Lysosomes (Barbosa, C.M.V. (542) 37)

Ac-RYYRIK-ol

Nociceptin/orphanin FQ; NOP receptor; Isolated tissue; Behavioral assay; (Mice) (Gündüz, Ö. (539) 39)

β -actin

P2X₇ receptor; Oxidized ATP; Astrocytes; RBA-2 astrocytes (Chen, H.B. (550) 1)

Actin cytoskeleton

Pleural mesothelial cell; Store-mediated; Calcium channel; Mycalolide B (Kuwahara, M. (542) 16)

Actin reorganization

GEA3162; Neutrophil; Thiol oxidation; Store-operated Ca^{2+} entry; Protein tyrosine phosphorylation (Hsu, M.-F. (535) 43)

Actinomycin D

Sarafotoxin 6c; Cycloheximide; Vasoconstriction (Eskesen, K. (539) 192)

Action potential

Paenol; Sodium current; Ventricular myocyte; Whole-cell patch-clamp (Ma, Y.-I. (545) 87)

Action potential duration

Antibiotics; Drug-induced long QT; Early afterdepolarizations; TdP (Torsade de Pointes); Long QT syndrome (Lu, H.R. (553) 229)

Activation-induced cytidine deaminase (AID)

IgE; Antiallergic drug; Nuclear factor-kappa B (NF- κ B); I kappa B alpha ($I\kappa B\alpha$) (Hanashiro, K. (547) 174)

Acute

Inflammation; Chronic; Inhibitor; Phospholipase A₂ (Malaviya, R. (539) 195)

Acute hepatic failure

Bicyclol; Lipopolysaccharide; D-galactosamine (Wang, H. (534) 194)

Acute phase protein

Protective effect; Liver injury; Interleukin-6; ME3738 (Kuzuhara, H. (541) 205)

Acute renal failure

N-Allylsecoboldine; Endotoxemia; Nitric oxide synthase; α_1 -adrenoceptor antagonist; Tumor necrosis factor- α (Chiao, C.-W. (535) 291)

Acute tolerance

Morphine; NMDA receptor antagonist; Antinociception; Estradiol; Tamoxifen (Shekunova, E.V. (535) 78)

Neurosteroid; In situ hybridization; EEG threshold; Rat brain (Birzniece, V. (535) 125)

Acyclic nucleoside phosphonate

Cytokine; Chemokine; Adenosine receptor (Kmoníčková, E. (530) 179)

Acyclic nucleotide analogues

HPMPA (9-[2-Hydroxy-3-(phosphonomethoxy)propyl]adenine); Immunostimulation; Nitric oxide; Cytokine (Potměšil, P. (540) 191)

Adamantane derivative

σ_1 receptors; Retina; Neuroprotection; Ischemia (Bucolo, C. (536) 200)

Addiction

Ontogeny; Adolescent rat; Nucleus accumbens; Quantitative microdialysis; Mesolimbic system (Badanich, K.A. (550) 95)

Ibogaine; Energy metabolism; Glycolysis; Tricarboxylic acid cycle; Proteomics; Rat brain (Paškulin, R. (552) 11)

Adefovir clearance

Organic anion transporter; Probenecid; TR– rat (Servais, A. (540) 168)

Adenosine

Interleukin-1 β ; Ca^{2+} -induced Ca^{2+} releasing system; Neuroprotection; Neurodegeneration; Hippocampus (Zhu, G. (532) 246)

Asthma; AMP; Mast cells; Airway inflammation (Spicuzza, L. (533) 77)

Adenosine deaminase; Anti-inflammatory; TNF- α ; DTH (Kuno, M. (534) 241)

GABA; Nitric oxide; Hippocampus (Fragata, I.R. (543) 32)

Acetylcholine; Ischemia; Myocyte; Postconditioning (Lu, J. (549) 133)

Tardive dyskinesia; Neuroleptic; Adenosinergic receptor system; Caffeine (Bishnoi, M. (552) 55)

Adenosine A₁ receptor

Dopamine D₁ receptor; Modulation; CRE-SEAP reporter gene (Cao, Y. (548) 29)

Asthma; Inflammation; Bronchial hyper-responsiveness; Airway; Allergen (Nadeem, A. (551) 116)

Adenosine A_{2a} receptor antagonist

ST1535; MPTP treated primate; Parkinson's disease (Rose, S. (546) 82)

Adenosine A_{2A} receptor knockout mice

Adenosine antagonist; Paracetamol; Caffeine; Antinociception (Godfrey, L. (531) 80)

Adenosine A_{2B} receptor

T24 cell line; cAMP; *5'*-Ethylcarboxamidoadenosine; Reverse transcriptase-polymerase chain reaction; Fluorometric imaging plate reader (Phelps, P.T. (536) 28)

Adenosine A₃ receptor

Granulopoiesis; Myelosuppression; 5-Fluorouracil; (Mouse) (Hofer, M. (538) 163)

Adenosine antagonist

Paracetamol; Caffeine; Antinociception; Adenosine A_{2A} receptor knockout mice (Godfrey, L. (531) 80)

Adenosine deaminase

Adenosine; Anti-inflammatory; TNF- α ; DTH (Kuno, M. (534) 241)

Adenosine receptor

Acyclic nucleoside phosphonate; Cytokine; Chemokine (Kmoníčková, E. (530) 179)

Adenosine receptor blockade

Angiotensin II; Hypertension (Morato, M. (531) 209)

Adenosinergic receptor system

Tardive dyskinesia; Neuroleptic; Caffeine; Adenosine (Bishnoi, M. (552) 55)

Adenylate cyclase

Cyclic AMP; G protein-coupled receptor; Kinase; Signaling (Beazely, M.A. (535) 1)

Adenylyl cyclase

Inverse agonist; Constitutive activity; Splice variant; Resensitization (Krobert, K.A. (532) 1)

Artery; β -NAD; Neurotransmitter release; Protein kinase A (Bobalova, J. (536) 128)

P2Y₁₄ receptor; Human neutrophil; Elastase release (Scrivens, M. (543) 166)

Adenylyl cyclase superactivation

Human μ -opioid receptor; Raf-1 (Yue, X. (540) 57)

Adhesion molecule

Calcium channel blocker; 7-Ketocholesterol; Endothelial cell; Reactive oxygen species (Naito, Y. (546) 11)

Statin; Chemotaxis; Cytoskeleton; Endothelial cell; Monocyte (Pozo, M. (548) 53)

Adhesion molecules

PARP [Poly (ADP-ribose) polymerase]; Pancreatitis; Inflammation; Neutrophil infiltration (Mazzon, E. (549) 149)

3T3-L1 adipocyte

Raloxifene; Adiponectin; Lipoprotein lipase (Murase, Y. (538) 1)

Adipocytes

Renin–angiotensin system; Candesartan cilexetil; Adipokines (Zorad, S. (552) 112)

Adipokines

Renin–angiotensin system; Candesartan cilexetil; Adipocytes (Zorad, S. (552) 112)

Adiponectin

Raloxifene; 3T3-L1 adipocyte; Lipoprotein lipase (Murase, Y. (538) 1)

Adipose tissue

Imidazoline site ligand; Insulin; MAO (Monoamine oxidase); SSAO (Semi-carbazide-sensitive amine oxidase) (Bour, S. (552) 20)

Adjuvant-induced

TNF (tumor necrosis factor); PEG-sTNFR1 (polyethylene glycol linked to soluble TNF receptor p55); GH (growth hormone); IGF-I (insulin-like growth factor-I); Arthritis (Granado, M. (536) 204)

Adjuvant-induced arthritis

Dihydrocucurbitacin B; Nitric oxide synthase; Cyclooxygenase; Tumor necrosis factor- α ; Interleukin-1 β (Escandell, J.M. (532) 145)

Adjuvant-induced inflammation

Somatostatin; Anti-nociceptive effect; Formalin test; Traumatic mononeuropathy (Sándor, K. (539) 71)

Adolescent rat

Ontogeny; Nucleus accumbens; Addiction; Quantitative microdialysis; Mesolimbic system (Badanich, K.A. (550) 95)

 α_1 -Adrenergic receptor

Ventricular stretch; Repolarization prolongation; Torsade de pointes; Proarrhythmia; QT interval (Farkas, A.S. (537) 118)

 α_1 -adrenoceptor

5-HT₂ receptor; Nitroblue tetrazolium; Hemodynamics; (Rat) (Owen, J.R. (535) 248)

 α_1 -Adrenoceptor

Tamsulosin; Intraurethral pressure; Premicturition contraction; Bladder outlet obstruction (Ohtake, A. (545) 185)

 α_1 -adrenoceptor antagonist

N-Allylsecoboldine; Acute renal failure; Endotoxemia; Nitric oxide synthase; Tumor necrosis factor- α (Chiao, C.-W. (535) 291)

 α_1 -Adrenoceptor subtype

Endothelium; Nitric Oxide (Mendez, E. (546) 127)

 α_1 -Adrenoceptors

Blood pressure; 5-HT receptor ligands; Phenylephrine; Pithed rat (Centurión, D. (535) 234)

 α_{1D} -adrenoceptor

Hyperhomocysteinemia; Carotid artery; Modulation; Relaxation; Phenylephrine; Nitric oxide; Oxidative stress (de Andrade, C.R. (543) 83)

 α_{1L} -Adrenoceptor

RS-17053; WB 41011; Tamsulosin; Prostate; Stroma (Gray, K.T. (540) 155)

 α_2 -adrenoceptor

Chronic desipramine treatment; κ -opioid receptor; μ -opioid receptor; Sympathetic innervation; Myenteric plexus (Canciani, L. (553) 269)

 α_2 -adrenoceptor

Morphine; Tramadol; Buprenorphine; Fentanyl; Antinociception; Knock-out mice; μ -opioid peptide receptor (Özdoğan, Ü.K. (529) 105)

Atipamezole; Descending inhibition; 5-HT_{1A} receptor; Neuropathic pain; WAY-100635 (Wei, H. (535) 157)

 α_2 -Adrenoceptor

Atipamezole; Descending inhibition; Locus coeruleus; Neuropathic pain; Noradrenergic antinociception (Wei, H. (551) 41)

 α_2 -adrenoceptors

Heart; Perfusion; Moxonidine; Atrial natriuretic peptide; Imidazoline receptors (Mukaddam-Daheer, S. (541) 73)

 α_{1B} -Adrenoceptor

Phosphoinositide 3-kinase; Protein kinase C; Receptor transactivation (Casas-González, P. (542) 31)

 β_2 -adrenoceptor agonist

Asthma; Airway smooth muscle; Inositol phosphate signalling (Sayers, I. (531) 9)

β_2 -adrenoceptor desensitization

Airway smooth muscle; Protein kinase C; Fenoterol; Phorbol 12-myristate 13-acetate; GF 109203X (Boterman, M. (529) 151)

 β -adrenoceptor

Airway; Bronchodilatation; Mucociliary clearance; Inflammation; Stereoisomerism; Genetic polymorphism (Broadley, K.J. (533) 15)

 β -Adrenoceptor blocking agent

Carvedilol; Inward rectifier K^+ channel; Bundle crossing (Kikuta, J.-i. (529) 47)

Adrenal chromaffin cell

Maitotoxin; Ca^{2+} channel; Brainstem cell; Ca^{2+} influx; Catecholamine release (Kakizaki, A. (536) 223)

Adrenal medulla

Histamine; Cyclooxygenase-1; Thromboxane A_2 ; Catecholamines (Shimizu, T. (541) 152)

Adrenergic agonist

Interleukin; MAP kinase; Vasoconstriction (Seto, S.W. (531) 238)

Adrenergic beta-agonist

Glucocorticoid; COPD; Asthma (Sin, D.D. (533) 28)

Adrenergic hyporesponsiveness

Bile duct ligation; Cholestasis; Clonidine; Endogenous opioids; Nitric oxide; (Rat) (Tavakoli, S. (542) 148)

Adrenergic receptor

Depression; SSRI (Selective Serotonin Reuptake Inhibitor); Microdialysis (Beyer, C.E. (539) 164)

Adrenoceptor

Testicular capsule; Neurotransmission; Contraction; PCR (polymerase chain reaction); Smooth muscle (Jurkiewicz, N.H. (543) 141)

Cyclic AMP; Epinephrine; Isoproterenol; Triacylglycerol; VLDL (Rasouli, M. (545) 109)

Adrenocorticotrophic hormone

Electroconvulsive stimuli; Forced swim test; Brain-derived neurotrophic factor (Li, B. (529) 114)

Adrenocorticotropin

Hypothalamus–pituitary–adrenal axis; Corticotropin-releasing hormone; Corticosteroid; Neonatal programming; Pro-opiomelanocortin antisense (Galletta, G. (550) 180)

Adrenomedullin

Migraine; Adrenomedullin receptor antagonist; Cerebral blood flow; Middle cerebral artery; Middle meningeal artery (Juhl, L. (538) 101)

Adrenomedullin receptor antagonist

Migraine; Adrenomedullin; Cerebral blood flow; Middle cerebral artery; Middle meningeal artery (Juhl, L. (538) 101)

Adriamycin

Prostacyclin (PGI_2); Renal tubular cell; Apoptosis; Cyclooxygenase-1 (COX-1); Prostacyclin synthase (PGIS) (Chen, C.-H. (529) 8)

Calceolarioside; Apoptosis; Reactive oxygen species (Kim, D.-S. (541) 24)

Aequorin

Fluorescent probe; Neuropeptide Y; Y_2 receptor; Flow cytometry; Chimeric G protein; BIIE0246 (Ziemek, R. (551) 10)

(Aged female rat)

Human growth hormone; Resistance exercise; Lipid metabolism (Yang, J.-Y. (539) 99)

Aggregation

Andrographis paniculata; Diterpenoids; Inhibition; Thrombin; ERK1/2 (Thisoda, P. (553) 39)

Aggression

Metabotropic glutamate receptor; mGlu5 receptor; (Mice) (Navarro, J.F. (551) 67)

Aging

Pilocarpine; Acetylcholine; Muscarinic receptor; Olfactory discrimination; Social recognition memory; (Rat) (Prediger, R.D.S. (531) 176)

Hypoxia; Reoxygenation; Cariporide; Endothelium; Vasorelaxation (Besse, S. (531) 187)

Oxidative stress; Glutathione; Gene expression; Fibroblast (Braam, B. (542) 154)

Agmatine

Opioid dependence; IRAS; Imidazoline I_1 receptor; Intracellular Ca^{2+} concentration; CREB phosphorylation; ERK phosphorylation; c-Fos expression (Wu, N. (548) 21)

Anxiolytic; Social interaction; Light–dark transition test; Vogel's drinking conflict test; Animal models (Gong, Z.-H. (550) 112)

WIN 55212-2; Cannabinoid; Hypothermia; Imidazoline; CB $_1$ (Rawls, S.M. (553) 89)

Airway

Compound 48/80; Rat mast cell protease; Mucosal mast cell; Connective tissue mast cell (Liu, S. (530) 128)

β -adrenoceptor; Bronchodilatation; Mucociliary clearance; Inflammation; Stereoisomerism; Genetic polymorphism (Broadley, K.J. (533) 15)

Acetylcholine; Muscarinic receptor; Nicotinic receptor; Airway smooth muscle (Racké, K. (533) 57)

PPAR γ ; Inflammation; Asthma (Belvisi, M.G. (533) 101)

Adenosine A_1 receptor; Asthma; Inflammation; Bronchial hyper-responsiveness; Allergen (Nadeem, A. (551) 116)

Azithromycin; Contraction; Macrolide; Smooth muscle; Trachea (Daenas, C. (553) 280)

Airway hyperreactivity

Nerve growth factor; Nerve growth factor receptor; Asthma; Airway inflammation; Neurogenic inflammation (Nassenstein, C. (533) 195)

Airway hyperresponsiveness

Airway smooth muscle; Allergy; Asthma; Contraction; Ovalbumin; Passive sensitization; Rho-kinase; Y-27632; (Guinea pig) (Schaafsma, D. (531) 145)

Airway smooth muscle; Allergic asthma; Arginine; Argininosuccinate lyase; Argininosuccinate synthase; Citrulline; Guinea pig; Inhibitory nonadrenergic noncholinergic nerve; Nitric oxide synthase (Maarsingh, H. (546) 171)

Airway inflammation

Adenosine; Asthma; AMP; Mast cells (Spicuzza, L. (533) 77)

Tachykinin; Substance P; Neurokinin A; Asthma; Chronic obstructive pulmonary disease (De Swert, K.O. (533) 171)

Nerve growth factor; Nerve growth factor receptor; Asthma; Airway hyper-reactivity; Neurogenic inflammation (Nassenstein, C. (533) 195)

Kinin; Animal model; Asthma; Therapy (Abraham, W.M. (533) 215)

Airway remodeling

Asthma; G protein coupled receptor; PDGF (Platelet-derived growth factor); TGF- β (Transforming growth factor- β) (Gosens, R. (535) 253)

Airway smooth muscle

β_2 -adrenoceptor desensitization; Protein kinase C; Fenoterol; Phorbol 12-myristate 13-acetate; GF 109203X (Boterman, M. (529) 151)

Asthma; β_2 -adrenoceptor agonist; Inositol phosphate signalling (Sayers, I. (531) 9)

Airway hyperresponsiveness; Allergy; Asthma; Contraction; Ovalbumin; Passive sensitization; Rho-kinase; Y-27632; (Guinea pig) (Schaafsma, D. (531) 145)

Acetylcholine; Airway; Muscarinic receptor; Nicotinic receptor (Racké, K. (533) 57)

p38 mitogen-activated protein kinase; Airway wall remodelling; Bronchial hyperresponsiveness (Nath, P. (544) 160)

Airway hyperresponsiveness; Allergic asthma; Arginine; Argininosuccinate lyase; Argininosuccinate synthase; Citrulline; Guinea pig; Inhibitory non-adrenergic noncholinergic nerve; Nitric oxide synthase (Maarsingh, H. (546) 171)

Airway wall remodelling

p38 mitogen-activated protein kinase; Airway smooth muscle; Bronchial hyperresponsiveness (Nath, P. (544) 160)

Airways hyperresponsiveness

Phosphodiesterase-4; PDE4D; Cilamifast; Dexamethasone; Inflammation; Cytokines; Goblet cell; Asthma (Deng, Y.-m. (547) 125)

Alcohol

Drug discrimination; Discriminative stimulus; Ethanol intake; Metabotropic glutamate receptors; Self-administration (Besheer, J. (551) 71)

Alcohol deprivation effect

Baclofen; GABA_B (γ -aminobutyric acid_B) receptor; Relapse-like drinking; sP (Sardinian alcohol-preferring) rats (Colombo, G. (550) 123)

Aldose reductase

Diabetes; Allergy; Mast cells (Carvalho, V.F. (549) 173)

Alendronate

Electrical field stimulation-induced contraction; Lower esophageal sphincter; NO-mediated relaxation (Takeuchi, T. (537) 155)

Alkaline phosphatase

Piceatannol; Osteoblasts; Cell differentiation; Osteocalcin; Bone morphogenetic protein-2 (Chang, J.-K. (551) 1)

Alkaloids

Fritillariae; Anticholinergic activity; cAMP; [Ca²⁺]_i (Lin, B.-Q. (551) 125)

Allergen

Adenosine A₁ receptor; Asthma; Inflammation; Bronchial hyper-responsiveness; Airway (Nadeem, A. (551) 116)

Allergic asthma

Anti-IgE-antibody; Allergic respiratory diseases; Monoclonal antibody anti-IgE; Omalizumab (D'Amato, G. (533) 302)

Airway hyperresponsiveness; Airway smooth muscle; Arginine; Argininosuccinate lyase; Argininosuccinate synthase; Citrulline; Guinea pig; Inhibitory nonadrenergic noncholinergic nerve; Nitric oxide synthase (Maarsingh, H. (546) 171)

Allergic dermatitis

Hapten; Mouse; Scratching behavior; Immunoglobulin E; Interferon- γ ; Interleukin-4; Interleukin-5; Tacrolimus; Dexamethasone (Inagaki, N. (546) 189)

Allergic inflammation

Forced expiratory maneuver; Forced oscillation; Edema; FRC (Functional Residual Capacity); FVC (Forced Vital Capacity); IC (Inspiratory Capacity); MMEF (Mean Mid-Expiratory Flow); Cchord; Lung parenchyma; Goblet cell; (Brown–Norway rat) (Celly, C.S. (540) 147)

Allergic respiratory diseases

Allergic asthma; Anti-IgE-antibody; Monoclonal antibody anti-IgE; Omalizumab (D'Amato, G. (533) 302)

Allergic rhinitis

Asthma; Leukotriene; Glucocorticosteroid; Bronchoprovocation (Dahlén, S.-E. (533) 40)

Allergy

Airway hyperresponsiveness; Airway smooth muscle; Asthma; Contraction; Ovalbumin; Passive sensitization; Rho-kinase; Y-27632; (Guinea pig) (Schaafsma, D. (531) 145)

Histamine; T cell; B cell; Histamine receptor; Inflammation; Asthma (Akdis, C.A. (533) 69)

Arginine; Arginase; Asthma; Lung (Zimmermann, N. (533) 253)

Asthma; Chemokines; Chemokine receptor (Smit, J.J. (533) 277)

Asthma; Bacterial extract; CpG motif; Hygiene hypothesis; Lipopolysaccharide; Mycobacteria; Probiotics; T helper cell; Toll-like receptors; T regulatory cells (Feleszko, W. (533) 308)

Diabetes; Aldose reductase; Mast cells (Carvalho, V.F. (549) 173)

Allodynia

Minocycline; Neuropathic pain; Hyperalgesia; Interleukin-6 (Zanjani, T.M. (538) 66)

Hyperalgesia; Anticonvulsant drug; Diabetic neuropathy; Neuropathic pain; Lacosamide (Beyreuther, B. (539) 64)

Progesterone receptor; Neuropathic pain; Estrogen receptor; Hyperalgesia; Nociception (Kondo, D. (541) 44)

Analgesia; Spinal cord injury pain; Hyperalgesia; Infraorbital nerve; Trigeminal neuralgia; Lacosamide (Hao, J.-X. (553) 135)

Allopurinol

Xanthine oxidase; Ischemia-reperfusion; Reactive oxygen species production; Ca²⁺ overload (Kang, S.-M. (535) 212)

Allosteric enhancer

3,3-difluorobenzaldazine; mGlu5; Seven-transmembrane-domain (Mühlemann, A. (529) 95)

All-trans retinal

Carbonyl reductase; Quinone; Flavonoid; Pig heart (Shimada, H. (540) 46)

Alpha-aminoguanidine

Diabetes; Methylamine; Hyperphagia; $K_v1.6$ potassium channel; Semicarbazide-sensitive benzylamine oxidase activity (Cioni, L. (529) 179)

Alpinia rafflesiana

Cardamonin; RAW 264.7; Whole blood; Inflammatory mediator (Ahmad, S. (538) 188)

Aluminum overload

Cyclooxygenase-2; Meloxicam; Impairment of learning and memory function; Neuronal death; Amyloid beta; Choline acetyltransferase; Malondialdehyde (Jun-Qing, Y. (547) 52)

Alveolar bone loss

Pyrrolidine dithiocarbamate; Nuclear factor- κ B; Reactive oxygen specie; Periodontal disease (Muià, C. (539) 205)

Alzheimer disease

Mild cognitive impairment; Biomarker; Cerebrospinal fluid; Amyloid precursor protein; Platelet (Borroni, B. (545) 73)

Alzheimer's disease

Presynaptic boutons; Amyloid beta protein; Dystrophic neurites; Glutamate; GABA; Acetylcholine (Bell, K.F.S. (545) 11)

Redox proteomics; Oxidative stress; Protein oxidation; Hippocampus; Inferior parietal lobule (Butterfield, D.A. (545) 39)

Acetylcholinesterase; Cortical culture; Glutamate; Nicotinic acetylcholine receptor; Neurotoxicity (Takada-Takatori, Y. (549) 19)

Antioxidant; Cognitive impairment; Colchicine; Oxidative stress; Cyclooxygenase inhibitor (Kumar, A. (551) 58)

AM2233

Human cannabinoid CB₁ receptor; Mutagenesis; AM251 (Shen, C.-P. (531) 41)

AM251

Human cannabinoid CB₁ receptor; Mutagenesis; AM2233 (Shen, C.-P. (531) 41)

Amantadine

Ammonium ion; Bicarbonate; Kidney; Organic cation transport (Goralski, K.B. (541) 87)

American ginseng

Berry; Polyphenols; Caffeic acid; Chlorogenic acid; Antioxidant; Fluorescence; Oxidant stress; Catalase (Mehendale, S.R. (553) 209)

 γ -aminobutyric acid

Anandamide; Calcitonin gene-related peptide; Nitric oxide; Spinal cord; Blood pressure (del Carmen García, M. (532) 88)

 γ -Aminobutyric acid receptor

(–)-Epigallocatechin gallate; Brain; Intracerebroventricular injection; (Chick) (Adachi, N. (531) 171)

Amino acid

Flurothyl; GABA-benzodiazepine receptor; (Mongolian gerbil) (Hashimoto, Y. (536) 241)

Aminoguanidine

NO (Nitric oxide); Tolerance; Dependence (Abdel-Zaher, A.O. (540) 60)

Aminopeptidase N

Angiotensin IV; Angiotensin AT₄ receptor; Cystinyl aminopeptidase (Demaegdt, H. (546) 19)

Icatibant; LF 16-0687; Rabbit aorta; Bradykinin; Angiotensin (Bawolak, M.-T. (551) 108)

2-aminopurine

Leptin; STAT3 (Signal transducer and activator of transcription 3); ERK (Extracellular signal-regulated kinase); PKR (Double-strand RNA-activated protein kinase); Ob-Rb leptin receptor (Hosoi, T. (553) 61)

Aminopyrine

Paracetamol; Diclofenac; Prostaglandin; Cyclooxygenase-3; Writhing; (Cyclooxygenase knockout mice) (Ayoub, S.S. (538) 57)

Amiodarone

Atrial fibrillation; Electrical remodeling; Structural remodeling; Matrix metalloproteinase (Ashikaga, K. (536) 148)

Amitriptyline

Dopamine receptor; Nucleus accumbens; Striatum; Mirtazapine; Sertraline; RT-PCR (Reverse Transcriptase-Polymerase Chain Reaction) (Huzarska, M. (532) 208)

Ammonium ion

Amantadine; Bicarbonate; Kidney; Organic cation transport (Goralski, K.B. (541) 87)

AMP

Adenosine; Asthma; Mast cells; Airway inflammation (Spicuzza, L. (533) 77)

AMPA receptor antagonists

Kindling; YM872; Epileptogenesis; (Rat) (Hara, H. (531) 59)

Amygdale

Cannabinoid CB₁ receptor; 5-hydroxytryptamine (Ashton, J.C. (537) 70)

Amyloid beta

Nuclear factor-kappaB; Neurodegeneration; Cell death; c-Rel; p65 (Pizzi, M. (545) 22)

Cyclooxygenase-2; Aluminum overload; Meloxicam; Impairment of learning and memory function; Neuronal death; Choline acetyltransferase; Malondialdehyde (Jun-Qing, Y. (547) 52)

Amyloid beta protein

Alzheimer's disease; Presynaptic boutons; Dystrophic neurites; Glutamate; GABA; Acetylcholine (Bell, K.F.S. (545) 11)

Amyloid precursor protein

β -Secretase; γ -Secretase; Amyloidogenic processing (Pastorino, L. (545) 29)

Alzheimer disease; Mild cognitive impairment; Biomarker; Cerebrospinal fluid; Platelet (Borroni, B. (545) 73)

Amyloid synthesis

Green tea; Curcumin; Blueberries; Resveratrol; Ginkgo biloba extract EGB 761 (Ramassamy, C. (545) 51)

Amyloid- β

Ibotenate; Hippocampus; Memantine; MK-801; Water maze (Nakamura, S. (548) 115)

Amyloidogenic processing

Amyloid precursor protein; β -Secretase; γ -Secretase (Pastorino, L. (545) 29)

Amyotrophic lateral sclerosis

Cannabinoid; Neuroinflammation (Kim, K. (542) 100)

Anaesthesia

Dextromethorphan; Dextrorphan; Local anaesthetic; 3-methoxymorphinan; Sciatic nerve (Hou, C.-H. (544) 10)

Anaesthetic preconditioning

Xenon; Cardiac preconditioning; Mitochondrial adenosine triphosphate dependent potassium channel; Protein kinase C; 3Phosphatidylinositol-dependent kinase-1 (Weber, N.C. (539) 1)

Analgesia

Antianalgesia; Opioid; Spinal cord; Knockout mice (Wu, H.-e. (531) 103)

Remifentanyl; Opioid; *Mu* opioid receptor; *Rana pipiens* (Mohan, S. (534) 89)

Buprenorphine; Opioid receptor binding; Pseudoirreversible binding (Englberger, W. (534) 95)

Hot-plate; Inflammation; Nociception; Rho-kinase; Writhing; Y-27632 (Büyükaşar, K. (541) 49)

IRL1620 {Suc-[Glu⁹,Ala¹¹,Ala¹⁵ET-1-(8–21)]}; BMS182874 (5-(dimethylamino)-*N*-(3,4-dimethyl-5-isoxazolyl)-1-Naphthalenesulfonamide); Morphine; Gastrointestinal transit; Central nervous system; Endothelin; (Mice) (Matwyszyn, G.A. (543) 48)

[Lys⁷]dermorphin; Deoxyglucose; Cerebral metabolism (Pontieri, F.E. (544) 17)

Analgesia; Antinociception; Ibuprofen; Caffeine; PIFIR model (Medina López, J.R. (544) 31)

Metamizol; Endogenous opioid; Potentiation; Non-steroidal anti-inflammatory drug (Hernández-Delgadillo, G.P. (546) 54)

Improgan; Pain; Cannabinoid; Cannabinoid CB₁ receptor; Tetrahydrocannabinol (Nalwalk, J.W. (549) 79)

Postherpetic neuralgia; Herpes zoster; Opioid receptor; Morphine; Nalfurafine (Takasaki, I. (550) 62)

Mitogen-activated protein kinase; Antianalgesia; Opioid; Spinal cord (Wu, H.-e. (550) 91)

Presynaptic; Calcium channel; Anticonvulsant; Anxiolytic; Transmitter release (Joshi, I. (553) 82)

Allodynia; Spinal cord injury pain; Hyperalgesia; Infraorbital nerve; Trigeminal neuralgia; Lacosamide (Hao, J.-X. (553) 135)

Analgesic activity

Paracetamol; CB₁ receptor (Ottani, A. (531) 280)

Anandamide

Cannabinoid receptor; Glucose intolerance (Bermúdez-Siva, F.J. (531) 282)

Calcitonin gene-related peptide; γ -aminobutyric acid; Nitric oxide; Spinal cord; Blood pressure (del Carmen García, M. (532) 88)

Direct hemoperfusion using polymyxin B immobilized column; Hydrochloric acid-induced lung injury; Growth-related oncogene/cytokine-induced neutrophils chemoattractant-1; Neutrophil recruitment (Tsushima, K. (535) 270)

Capsaicin; Protons; TRPV1 (transient receptor potential vanilloid 1); Ligand-gated ion channel; Pain (Bianchi, B.R. (537) 20)

Cannabinoid; NANC (nonadrenergic noncholinergic) relaxation; NO (nitric oxide); Corpus cavernosum; (Rat) (Ghasemi, M. (544) 138)

Endocannabinoids; Fatty-acid ethanolamides; Oleoylethanolamide; Palmitoylethanolamide; Cannabinoid receptors; Rofecoxib; Ibuprofen; Fatty-acid amide hydrolase; Nonsteroidal anti-inflammatory drugs; Capsazepine; Formalin test; Inflammatory pain (Guindon, J. (550) 68)

Anatoxin-a

Dopamine; Glutamatergic receptor; *In vivo* microdialysis; Nicotinic receptor; Nitric oxide; Striatum (Campos, F. (548) 90)

Andrographis paniculata

Diterpenoids; Inhibition; Aggregation; Thrombin; ERK1/2 (Thisoda, P. (553) 39)

Anesthesia

Gene expression; Isoflurane; Nitrous oxide; Hippocampus; (Rat) (Culley, D.J. (549) 71)

Anesthetics

Propofol; Oxidative stress; Lymphocyte; Neuron (Chikutei, K.-i. (540) 18)

D-Amino acid oxidase; Ketamine; NMDA receptor; Schizophrenia; Serine racemase (Takeyama, K. (540) 82)

Angiogenesis

Aryl-hydrocarbon receptor; 3-Methylcholanthrene; Dioxin; Polycyclic aromatic hydrocarbons (Juan, S.-H. (530) 1)

Ghrelin; Ischemia-reperfusion; Nitric oxide; Calcitonin gene related peptide; Gastric blood flow; Hypoxia inducible factor-1 alpha (Konturek, P.C. (536) 171)

Antiangiogenic agent; 5-S-GAD; Tumor therapy (Nishikawa, T. (539) 151)

Pulmonary circulation; Heart failure; Histopathology; Cyclo-oxygenase (van Albada, M.E. (549) 107)

Emodin; Human umbilical cord vein endothelial cells; ERK 1/2 (Kaneshiro, T. (553) 46)

Angiotensin

Icatibant; LF 16-0687; Aminopeptidase N; Rabbit aorta; Bradykinin (Bawolak, M.-T. (551) 108)

Angiotensin AT₄ receptor

Angiotensin IV; Cystinyl aminopeptidase; Aminopeptidase N (Demaegdt, H. (546) 19)

Angiotensin converting enzyme

Peroxisome proliferator-activated receptors; Diabetes (Toba, H. (549) 124)

Angiotensin converting enzyme inhibitor

Dihydropyridine; Endothelial cell; High glucose; Nitric oxide; Superoxide (Rosenkranz, A.C. (529) 55)

Angiotensin II

Hypertension; Adenosine receptor blockade (Morato, M. (531) 209)

Cerebral artery; Vasodilatation; Endothelium-derived hyperpolarising factor (Wackenfors, A. (531) 259)

Type-2 diabetes; Renal failure; Metabolic syndrome; Longevity (Janiak, P. (534) 271)

Smooth muscle cell; Proliferation; Extracellular signal-regulated kinases 1/2; Mitogen-activated protein kinases; Crocetin (Zhou, C.-H. (535) 61)

Angiotensin II type I receptor antagonist; Intestinal injury; Ischemia; Reperfusion (Takagi, T. (535) 283)

Edema; Mast cell; Carrageenan; Dextran (Carvalho, R.F. (540) 175)

Endocardial endothelium; Endothelin-1; Inotropism; Myocardium (Castro-Chaves, P. (544) 91)

Angiotensin II type I receptor antagonist

Angiotensin II; Intestinal injury; Ischemia; Reperfusion (Takagi, T. (535) 283)

Angiotensin IV

Angiotensin AT₄ receptor; Cystinyl aminopeptidase; Aminopeptidase N (Demaegdt, H. (546) 19)

Animal model

Muscarinic receptor; Transgenic mouse; Cognition; Anxiety (Degroot, A. (531) 183)

Kinin; Airway inflammation; Asthma; Therapy (Abraham, W.M. (533) 215)

Anxiety; Anticonvulsant drug; Panic; (Rat) (Dombrowski, P.A. (537) 72)

Animal models

Agmatine; Anxiolytic; Social interaction; Light–dark transition test; Vogel's drinking conflict test (Gong, Z.-H. (550) 112)

Animal models depression

Rotigotine; Dopamine agonist; Parkinson's disease (Bertaina-Anglade, V. (548) 106)

Anion channels

Vitamin C; Oxidative stress; Oxidant; Shear stress; ATP; Dehydroascorbic acid (Davis, K.A. (548) 36)

Anococcygeus muscle

BAY 41-2272; Soluble guanylyl cyclase; Tadalafil; Nitric oxide; Nitrergic nerve (Teixeira, C.E. (530) 157)

Anorexia

Appetite; A-77636; Dopamine; Food intake; Meal pattern; Obesity (Cooper, S.J. (532) 253)

Antagonist

5-HT_{1A} receptor; 5-HT_{1B} receptor; 5-HT re-uptake; Autoreceptor (Scott, C. (536) 54)

Cathepsin S; Delayed-type hypersensitivity (Desai, S.N. (538) 168)

Anthracycline

Mitotic catastrophe; Transcriptome; WP631; Jurkat T lymphocyte; p53 (Mansilla, S. (540) 34)

Antiallergic drug

IgE; Nuclear factor-kappa B (NF-κB); I kappa B alpha (IκBα); Activation-induced cytidine deaminase (AID) (Hanashiro, K. (547) 174)

Antianalgesia

Analgesia; Opioid; Spinal cord; Knockout mice (Wu, H.-e. (531) 103)

Mitogen-activated protein kinase; Analgesia; Opioid; Spinal cord (Wu, H.-e. (550) 91)

Anti-androgenic activity

3-methyl-4-nitrophenol; Diesel exhaust particle; Recombinant yeast screen assay; Hershberger assay (Li, C. (543) 194)

Antiangiogenic agent

Angiogenesis; 5-S-GAD; Tumor therapy (Nishikawa, T. (539) 151)

Anti-arrhythmia agent

Myotonia; Flecainide; Sodium channel; Patch-clamp technique (Aoike, F. (532) 24)

Antibiotics

Action potential duration; Drug-induced long QT; Early afterdepolarizations; TdP (Torsade de Pointes); Long QT syndrome (Lu, H.R. (553) 229)

Anticholinergic activity

Fritillariae; Alkaloids; cAMP; [Ca²⁺]_i (Lin, B.-Q. (551) 125)

Anticoagulant

Factor Xa inhibitor; M55551; M55165 (Hosaka, Y. (529) 164)

Anticonvulsant

Small-conductance Ca²⁺-activated K⁺ channel (SK channel); 1-ethyl-2-benzimidazolinone (1-EBIO); Mouse (Anderson, N.J. (546) 48)

Felbamate; GABA_A receptor; Epilepsy; Subunit selectivity (Simeone, T.A. (552) 31)

Presynaptic; Calcium channel; Analgesia; Anxiolytic; Transmitter release (Joshi, I. (553) 82)

Anticonvulsant drug

Animal model; Anxiety; Panic; (Rat) (Dombrowski, P.A. (537) 72)

Allodynia; Hyperalgesia; Diabetic neuropathy; Neuropathic pain; Lacosamide (Beyreuther, B. (539) 64)

Antidepressant

Dopamine; Imipramine; Mania; Motor activity; Quinpirole; Valproate (D'Aquila, P.S. (535) 208)

Antidepressive-like effect

Caffeic acid; Forced swimming; BDNF; TrkB; (Mice) (Takeda, H. (534) 115)

Antidote

Pyridinium oxime; Acetylcholinesterase; Pralidoxime; Obidoxime; Trimedoxime; HI-6; HL8-7; Warfare nerve agent; Organophosphorus insecticide (Jokanović, M. (553) 10)

Anti-dsDNA autoantibody

Systemic lupus erythematosus; (S)-armepavine; Splenocyte proliferation; IL-2; Immune complex deposition (Liu, C.-P. (531) 270)

Antiemetic drug

Prochlorperazine; HERG channel; I_{Kr}; Long QT syndrome; Arrhythmias (Kim, M.-D. (544) 82)

Antiepileptic

Levetiracetam; Binding; Human brain; SV2A (Gillard, M. (536) 102)

Antiepileptic drug

2-Phosphonomethyl-pentanedioic acid; Glutamate carboxypeptidase II; Electroconvulsive threshold; Maximal electroshock; Valproate; Pharmacokinetic interaction (Luszczycki, J.J. (531) 66)

Kynurenic acid; Kynurenine aminotransferase; Epilepsy; In vitro; Brain (Kocki, T. (541) 147)

Lamotrigine; Levetiracetam; Ion channel; Delayed depolarization; Compound action potential (Güven, M. (553) 129)

Antigen

Tachykinin NK₁ receptor antagonist; L-732,138; Substance P; Sensitization; EEG (Electroencephalogram) spike; Olfactory bulb; Cyproheptadine; Olopatadine; Epinastine (Rahman, M.A. (532) 155)

Antihistamine

Histamine H₁ receptor; Binding; Levocetirizine; Desloratadine; Fexofenadine (Gillard, M. (530) 205)

Antihyperglycemia

Diabetes mellitus; Ginsenoside Re; *Panax ginseng*; Antihyperlipidemia; Antioxidant (Cho, W.C.S. (550) 173)

Antihyperlipidemia

Diabetes mellitus; Ginsenoside Re; *Panax ginseng*; Antihyperglycemia; Antioxidant (Cho, W.C.S. (550) 173)

Antihypertensive drug

Hypertension; End-organ damage; Blood pressure variability; Baroreflex sensitivity (Xie, H.-H. (543) 77)

Anti-IgE-antibody

Allergic asthma; Allergic respiratory diseases; Monoclonal antibody anti-IgE; Omalizumab (D'Amato, G. (533) 302)

Anti-inflammatory

Adenosine deaminase; Adenosine; TNF- α ; DTH (Kuno, M. (534) 241)

Anti-inflammatory effect

Lipopolysaccharide; Nitric oxide; Mitogen-activated kinase phosphatase-1; Cyclooxygenase-2; Signal transduction; RAW 264.7 macrophage (Chen, T.-H. (541) 138)

Antimalarial drug

Strychnine; Glycine receptor; Patch-clamp; strychnine binding (Philippe, G. (530) 15)

Antimuscarinic agent

Muscarinic receptor; COPD (Chronic Obstructive Pulmonary disease); Asthma; Ipratropium; Tiotropium (Gross, N.J. (533) 36)

Antimycin A

Antioxidant effect; Ginsenoside Re; ESR spectroscopy; Cardiomyocyte; Ischemia and reperfusion damage; H₂O₂ (Xie, J.-T. (532) 201)

Antinociception

Morphine; Tramadol; Buprenorphine; Fentanyl; Knock-out mice; μ -opioid peptide receptor; α_2 -adrenoceptor (Özdoğan, Ü.K. (529) 105)

Adenosine antagonist; Paracetamol; Caffeine; Adenosine A_{2A} receptor knock-out mice (Godfrey, L. (531) 80)

Morphine; NMDA receptor antagonist; Acute tolerance; Estradiol; Tamoxifen (Shekunova, E.V. (535) 78)

Oxycodone; Diabetes; κ -Opioid receptors; Hyperalgesia (Nozaki, C. (535) 145)

Morphine; Gap junction (Suzuki, M. (535) 169)

Tyr-D-Arg-Phe-sarcosine; Dermorphin; Spinal cord; μ -Opioid receptor; (Mouse) (Mizoguchi, H. (540) 67)

Potential; Analgesia; Ibuprofen; Caffeine; PIFIR model (Medina López, J.R. (544) 31)

Salvinorin A; Kappa opioid receptor (John, T.F. (545) 129)

Cannabinoid; Vanilloid (Haller, V.L. (546) 60)

Anxiety; Nociception; Diazepam; Yohimbine; Acetylsalicylic acid (Jiménez-Velázquez, G. (547) 83)

7-Hydroxymitragynine; Gastrointestinal transit; μ -Opioid receptor; Morphine (Matsumoto, K. (549) 63)

Antinociceptive activity

Morphine; Tetrahydropyran derivative; Opioid (Marinho, B.G. (550) 47)

Anti-nociceptive effect

Somatostatin; Formalin test; Adjuvant-induced inflammation; Traumatic mononeuropathy (Sándor, K. (539) 71)

Antinociceptive effect

Methyleugenol; GABA_A receptor; NMDA receptor (Yano, S. (553) 99)

Anti-obesity

Platycodin D; Cholesterol lowering; ACAT inhibition; Farnesoid X receptor (Zhao, H.L. (537) 166)

Antioxidant

Aconitase; Closed cranial impact; Mn (III) porphyrin; Superoxide dismutase; Traumatic brain injury; (Mouse) (Leinenweber, S.B. (531) 126)

Daidzein; Equol; Glutathion; Prooxidant (Jeong Choi, E. (542) 162)

Thiol; Newborn; Hypoxiareoxygenation; Matrix metalloproteinase (Emara, M. (544) 168)

Neurogenesis; Neural progenitor cell; Trophic factor; Cell death (Niidome, T. (548) 1)

Diabetes mellitus; Ginsenoside Re; *Panax ginseng*; Antihyperglycemia; Antihyperlipidemia (Cho, W.C.S. (550) 173)

Alzheimer's disease; Cognitive impairment; Colchicine; Oxidative stress; Cyclooxygenase inhibitor (Kumar, A. (551) 58)

American ginseng; Berry; Polyphenols; Caffeic acid; Chlorogenic acid; Fluorescence; Oxidant stress; Catalase (Mehendale, S.R. (553) 209)

Antioxidant effect

Ginsenoside Re; ESR spectroscopy; Cardiomyocyte; Ischemia and reperfusion damage; Antimycin A; H₂O₂ (Xie, J.-T. (532) 201)

Antioxidants

Oxidants; Lungs; Glutathione; Superoxide dismutase; Thioredoxin (Rahman, I. (533) 222)

1,4-Dihydropyridine; Lipid peroxidation; Malondialdehyde; 4-Hydroxynonenal; Hepatoprotection (Borovic, S. (537) 12)

Antioxidative effects

Lornoxicam; Nitroglycerin; Oxidative stress; Side effects (Sen, S. (541) 191)

Antipsychotic

Cyamemazine; *h*ERG; Phenothiazine; Arrhythmia; QT prolongation; Guinea pig (Crumb, W. (532) 270)

Schizophrenia; 5-HT_{1A}; D_{2S}; Extracellular signal-regulated kinase (Bruins Slot, L.A. (534) 63)

Schizophrenia; Glutamate; Confocal microscopy (Jordan, S. (540) 53)

Cognition; Exposure; Serum level; (Rat) (Didriksen, M. (542) 108)

In vivo; Intracranial self-stimulation; Reward; Specific receptor antagonists (Flagstad, P. (544) 69)

Antipsychotics

Dopamine D2 receptor; Partial agonist; S19 cell; Prolactin; (Rat) (Cosi, C. (535) 135)

Antirheumatic drug

Glutamate receptor antagonist; Synovioocyte; Proliferation; In vitro (Parada-Turska, J. (535) 95)

Anxiety

Diazepam; 8-OH-DPAT; Ovariectomy; Menopause; Burying behaviour (Picazo, O. (530) 88)

Muscarinic receptor; Transgenic mouse; Cognition; Animal model (Degroot, A. (531) 183)

Animal model; Anticonvulsant drug; Panic; (Rat) (Dombrowski, P.A. (537) 72)

MCH-1 receptor antagonists; Depression; (Rat); (Mouse) (Basso, A.M. (540) 115)

Hypophysectomy; Arginine vasopressin; Vasopressin V_{1B} receptor antagonist (Shimazaki, T. (543) 63)

Nociception; Antinociception; Diazepam; Yohimbine; Acetylsalicylic acid (Jiménez-Velázquez, G. (547) 83)

Marble burying; Anxiolytics; Predictive validity; (Mice) (Nicolas, L.B. (547) 106)

Serotonin 5-HT_{2C} receptor; Serotonin 5-HT_{1A} receptor; Benzodiazepine (Harada, K. (553) 171)

Anxiety disorder

Conditioned fear; Selective serotonin reuptake inhibitor; Selective noradrenaline reuptake inhibitor; Noradrenaline; Serotonin (Inoue, T. (540) 91)

Anxiolytic

Conditioned fear stress (CFS); Citalopram; Serotonin; Selective serotonin reuptake inhibitor (SSRI); c-Fos (Izumi, T. (534) 129)

Agmatine; Social interaction; Light–dark transition test; Vogel's drinking conflict test; Animal models (Gong, Z.-H. (550) 112)

Presynaptic; Calcium channel; Analgesia; Anticonvulsant; Transmitter release (Joshi, I. (553) 82)

Anxiolytic action

Ginsenoside Rb₁; Ginsenoside Rg₁; Ginsenoside Ro; Elevated plus-maze; Male mouse (Carr, M.N. (531) 160)

Anxiolytics

Marble burying; Anxiety; Predictive validity; (Mice) (Nicolas, L.B. (547) 106)

AO (Albino Oxford) rat

Paw edema; β -endorphin; Granulocytes; Phagocytosis; NO (nitric oxide) production; μ , δ , κ opioid receptors; DA (Dark Agouti) rat (Stanojević, S. (549) 157)

Aorta

Tramadol; Enantiomers; Vasodilatation; Papillary muscle; Naloxone (Raimundo, J.M. (530) 117)

Superoxide; NADPH oxidase; Neutrophil; Aortic valve; HUVEC (human umbilical vein endothelial cell); Fibroblast; Perhexiline (Kennedy, J.A. (531) 13)

Homocysteine; Copper; Nitric oxide; Superoxide; NADPH oxidase (Shukla, N. (531) 201)

Nifedipine; Hypoxia; Noradrenaline; Phenylephrine (Broadley, K.J. (536) 279)

Acetylcholine; Endothelium-dependent relaxation; *+db/+db* mice; Caveolin-1 (Lam, T.Y. (546) 134)

Aortic valve

Superoxide; NADPH oxidase; Neutrophil; Aorta; HUVEC (human umbilical vein endothelial cell); Fibroblast; Perhexiline (Kennedy, J.A. (531) 13)

AP4 (L(+)-2-amino-4-phosphonobutanoic acid)

LTD (Long-term depression); Histology; Hippocampus; In vivo (Naie, K. (535) 104)

Apamin

Galantamine; K_{Ca}2 channels; Catecholamines; Chromaffin cell (Alés, E. (548) 45)

2-APB

Signal transduction; Cell signaling; Calcium channel blocker; Fura-2; Myosin light chain phosphorylation; Contraction (Ratz, P.H. (541) 177)

Apelin

Contractility; Heart failure; Excitation–contraction coupling; Ca²⁺ responsiveness (Dai, T. (553) 222)

Aphagia/adipsia

Soman; Seizure; Rocyclidine; Muscimol; Ethanol; Propofol; Resistance; Electrode placement (Myhrer, T. (548) 83)

Apical sodium-dependent bile acid transporter

Enterohepatic circulation; Hypocholesterolemic agent; Monkey; Hamster; Cholesterol (Kitayama, K. (539) 89)

Aplindore

Dopamine D₂ receptor; Chimeric G_{αq/10}-protein; Intracellular calcium flux; ERK-phosphorylation; [³⁵S]GTPγS; Unilaterally 6-hydroxydopamine lesioned rat (Heinrich, J.N. (552) 36)

Apocynin

Zymosan-induced ear swelling; Zymosan-induced arthritis; Cartilage proteoglycan (Hougee, S. (531) 264)

Apolipoprotein A-I (apoA-I)

High-density lipoprotein (HDL); Peroxisome proliferator-activated receptors (PPARs); Liver X receptor α ; ATP binding cassette transporter A1 (ABCA1) (Guo, L. (551) 80)

Apolipoprotein B

Squalene synthase inhibitor; 2-Biphenylmorpholine compounds; Cholesterol; Triglyceride; Low-density lipoprotein receptor (Tavridou, A. (535) 34)

Apolipoprotein B-100

Myeloperoxidase; LDL; Captopril; ACE inhibitor (Van Antwerpen, P. (537) 31)

Apomorphine

Pain; Dopamine; (*S*)-(–)-sulpiride; Domperidone; Tail-flick; Paw pressure; Formalin (Pelissier, T. (546) 40)

Mood stabilizers; Valproate; Carbamazepine; Lithium; Prepulse inhibition; Dizocilpine (Umeda, K. (553) 157)

Apoptosis

Puerarin; Oxidative stress; Pancreatic islet; Insulin (Fu-Liang, X. (529) 1)

Prostacyclin (PGI₂); Adriamycin; Renal tubular cell; Cyclooxygenase-1 (COX-1); Prostacyclin synthase (PGIS) (Chen, C.-H. (529) 8)

Glucocorticoid; Glucocorticoid-induced leucine zipper (GILZ); Thymocyte; Genomic effect; Non-genomic effect (Bruscoli, S. (529) 63)

Kaempferol; 7 β -hydroxycholesterol; Vascular smooth muscle (Ruiz, E. (529) 79)

Cell volume; Cytosolic ATP; GSH (glutathione); Phosphatidylserine; Calcium (Akel, A. (532) 11)

Luteolin (3',4',5,7-tetrahydroxyflavone); Human lung squamous carcinoma CH27 cell line; Superoxide dismutase; Catalase (Wing-Cheung Leung, H. (534) 12)

Digitalis; Growth cell; Cytochrome *c* (Ramirez-Ortega, M. (534) 71)

Langendorff heart; Mitochondrial K_{ATP} channel; 5-HT_{1A} receptor antagonist; Spectroscopy; MPTP (mitochondrial permeability transition pore) (Huang, L. (534) 165)

Secretory phospholipase A₂; Caspase; Poly (ADP-ribose) polymerase; TNF- α ; Cytochrome *c* (Lee, C. (536) 47)

Indapamide; Pituitary cell; Voltage-dependent K⁺ current (Dong, D.-L. (536) 78)

Platycodin D; NF- κ B activation; HaCaT cells; Caspase-3 and 8; Fas and Fas ligand (Ahn, K.S. (537) 1)

Carboxyamido-triazole; Human breast cancer; Cell cycle; Mitochondrial membrane potential (Guo, L. (538) 15)

Protocatechuic acid; Hydrogen peroxide; Oxidative stress; PC12 cells (Guan, S. (538) 73)

G₁-phase block; Colon cancer; Ibuprofen (Janssen, A. (540) 24)

Carboxymethyl-chitosan; Chondrocyte; Mitochondrion; Nitric oxide; Reactive oxygen species (Chen, Q. (541) 1)

Calceolarioside; Adriamycin; Reactive oxygen species (Kim, D.-S. (541) 24)

Palladacycle; K562; *Bcl-2/Bax*; Lysosomes; Acridine orange (Barbosa, C.M.V. (542) 37)

β -glucan; Lipid peroxidation; Glutathione; Myeloperoxidase activity; TNF- α (Şener, G. (542) 170)

BAPTA/AM [1,2-bis(*o*-aminophenoxy)ethane-*N,N,N',N'*-tetraacetic acid/tetra(acetoxymethyl) ester]; Beta cell; Ca²⁺ [calcium]; H₂O₂ [hydrogen peroxide] (Choi, S.-E. (547) 1)

Flavonoids; Cytotoxic activity; Caspases; DNA fragmentation; poly(ADP-ribose) polymerase (Rubio, S. (548) 9)

Differentiation; Histone deacetylase inhibitor; Leukemia; Transcription factors (Savickiene, J. (549) 8)

N-acetylcysteine; Tumor necrosis factor α ; Vascular endothelial cells (Xia, Z. (550) 134)

Osteoclasts; Macrophage colony stimulating factor; Imatinib; Bone resorption (El Hajj Dib, I. (551) 27)

Ceramide; TPCK (*N*-tosyl-L-phenylalanyl-chloromethyl ketone); Hypoxia-ischemia; Neuroprotection; Newborn rat (Feng, Y. (551) 34)

Apoptosis induction

Quercetin; TNF- α ; MC3T3-E1 osteoblastic cell; Growth inhibition (Son, Y.-O. (529) 24)

Apoptotic cell death

Tricyclic antidepressant; HT29 colorectal tumor cell; Non-mitochondrial pathway; Cell-cycle arrest (Arimochi, H. (541) 17)

Appetite

Anorexia; A-77636; Dopamine; Food intake; Meal pattern; Obesity (Cooper, S.J. (532) 253)

Appetite suppressant

N-nitrosifenfluramine; Fenfluramine; Mitochondrial permeability transition; Mitochondrial dysfunction; Hepatonecrosis; Dietary supplement (Nakagawa, Y. (529) 33)

Arachidonic acid

A549 cell; Ca²⁺ mobilization; Diadenosine polyphosphate; iNOS (inducible nitric oxide synthase) (Laubinger, W. (543) 1)

2-arachidonoylglycerol

IL-12; Cannabinoids; Vanilloid receptor; Dendritic cells (Lu, T. (532) 170)

2-Arachidonoylglycerol

Cannabinoid; Cannabinoid receptor agonist; Cannabinoid receptor antagonist; Inflammation; Ear swelling (Oka, S. (538) 154)

Arachidonic acid derivatives

Diabetes; Cyclooxygenase; Endothelin-1; Endothelin ET_A and ET_B receptors; Endothelium; NO (nitric oxide); Renal artery (Marrachelli, V.G. (534) 178)

Arginase

Arginine; Asthma; Allergy; Lung (Zimmermann, N. (533) 253)

Arginine

Arginase; Asthma; Allergy; Lung (Zimmermann, N. (533) 253)

Airway hyperresponsiveness; Airway smooth muscle; Allergic asthma; Argininosuccinate lyase; Argininosuccinate synthase; Citrulline; Guinea pig; Inhibitory nonadrenergic noncholinergic nerve; Nitric oxide synthase (Maarsingh, H. (546) 171)

Arginine vasopressin

Hypophysectomy; Anxiety; Vasopressin V_{1B} receptor antagonist (Shimazaki, T. (543) 63)

Argininosuccinate lyase

Airway hyperresponsiveness; Airway smooth muscle; Allergic asthma; Arginine; Argininosuccinate synthase; Citrulline; Guinea pig; Inhibitory nonadrenergic noncholinergic nerve; Nitric oxide synthase (Maarsingh, H. (546) 171)

Argininosuccinate synthase

Airway hyperresponsiveness; Airway smooth muscle; Allergic asthma; Arginine; Argininosuccinate lyase; Citrulline; Guinea pig; Inhibitory nonadrenergic noncholinergic nerve; Nitric oxide synthase (Maarsingh, H. (546) 171)

Aripiprazole

Dopamine D₂ receptor; Partial agonism (Wood, M.D. (546) 88)

Arrhythmia

Maprotiline; Acquired long QT syndrome; *HERG* potassium channel; Torsade de pointes; I_{Kr}; QT interval; Rapid delayed rectifier (Ferrer-Villada, T. (531) 1)

Antipsychotic; Cyamemazine; *h*ERG; Phenothiazine; QT prolongation; Guinea pig (Crumb, W. (532) 270)

Na⁺/Ca²⁺ exchange; Endogenous inhibitor; KB-R7943 (Shpak, B. (553) 196)

Arrhythmias

Prochlorperazine; Antiemetic drug; HERG channel; *I*_{Kr}; Long QT syndrome (Kim, M.-D. (544) 82)

Furidipine; Ischemia and re-perfusion; Cardio-protection; (Rat) (Krzemiński, T.F. (549) 91)

Arrhythmogenesis

Sarcoplasmic reticulum; L-type calcium current; Na–Ca exchange; Cardiac electrophysiology (Hove-Madsen, L. (553) 215)

Artery

Intracellular calcium; Nitric oxide; Human; Acetylcholine (Buus, N.H. (535) 243)

β-NAD; Adenylyl cyclase; Neurotransmitter release; Protein kinase A (Bobalova, J. (536) 128)

Noradrenaline; Acetylcholine; Cytosolic calcium; Heart failure; Infarction (Trautner, S. (537) 143)

Arthritis

TNF (tumor necrosis factor); PEG-sTNFRI (polyethylene glycol linked to soluble TNF receptor p55); GH (growth hormone); IGF-I (insulin-like growth factor-I); Adjuvant-induced (Granado, M. (536) 204)

Thalidomide; Tumor necrosis factor; Hyperalgesia; Zymosan (Vale, M.L. (536) 309)

Cysteinyl leukotriene; Mast cell; TNF-α (Shiota, N. (548) 158)

Aryl-hydrocarbon receptor

3-Methylcholanthrene; Dioxin; Polycyclic aromatic hydrocarbons; Angiogenesis (Juan, S.-H. (530) 1)

Ascorbate

EDHF (endothelium-derived hyperpolarizing factor); Flow; Flow-dependent vasodilatation; Perfusion pressure; Vasodilatation (Stirrat, A. (534) 152)

Aspirin

Gaultherin; NSAIDs (non-steroidal anti-inflammatory drugs); Salicylate; Gastric ulcer (Zhang, B. (530) 166)

8-Isoprostane; Mast cell (Mortaz, E. (543) 190)

Aspirin hypersensitivity

Cyclooxygenase; Non-steroid anti-inflammatory drug; Cysteinyl leukotriene; Lipoxin (Szczechlik, A. (533) 145)

Associative learning

Fear learning; Memory; Rat; Endocannabinoid (Arenos, J.D. (539) 177)

Inhibition; Cholinergic; Nicotinic receptor (MacLeod, J.E. (551) 76)

Asthma

Airway smooth muscle; β₂-adrenoceptor agonist; Inositol phosphate signalling (Sayers, I. (531) 9)

Airway hyperresponsiveness; Airway smooth muscle; Allergy; Contraction; Ovalbumin; Passive sensitization; Rho-kinase; Y-27632; (Guinea pig) (Schaafsma, D. (531) 145)

Glucocorticoid receptor; Transcription factor; Histone deacetylase; Histone acetyltransferase; Nuclear factor-κB; Inflammation; COPD (chronic obstructive pulmonary disease); Corticosteroid resistance (Barnes, P.J. (533) 2)

Glucocorticoid; Adrenergic beta-agonist; COPD (Sin, D.D. (533) 28)

Muscarinic receptor; Antimuscarinic agent; COPD (Chronic Obstructive Pulmonary disease); Ipratropium; Tiotropium (Gross, N.J. (533) 36)

Allergic rhinitis; Leukotriene; Glucocorticosteroid; Bronchoprovocation (Dahlén, S.-E. (533) 40)

Histamine; T cell; B cell; Histamine receptor; Inflammation; Allergy (Akdis, C.A. (533) 69)

Adenosine; AMP; Mast cells; Airway inflammation (Spicuzza, L. (533) 77)

Chronic obstructive pulmonary disease; Prostanoid; Isoprostanes (Rolin, S. (533) 89)

PPARγ; Airway; Inflammation (Belvisi, M.G. (533) 101)

Phosphodiesterase; Phosphodiesterase inhibitor; Chronic obstructive pulmonary disease; Cilomilast; Roflumilast; Rolipram (Fan Chung, K. (533) 110)

COPD; Inhibitor; MAP kinase; IKK; Gene expression (Adcock, I.M. (533) 118)

Matrix metalloproteinase; Tissue inhibitor of MMP; Cytokine; Growth factors (Gueders, M.M. (533) 133)

Tachykinin; Substance P; Neurokinin A; Chronic obstructive pulmonary disease; Airway inflammation (De Swert, K.O. (533) 171)

Nerve growth factor; Nerve growth factor receptor; Airway hyperreactivity; Airway inflammation; Neurogenic inflammation (Nassenstein, C. (533) 195)

Kinin; Airway inflammation; Animal model; Therapy (Abraham, W.M. (533) 215)

Nitric oxide; Oxidant; Peroxynitrite; Nitrosative stress; COPD (Chronic Obstructive Pulmonary Diseases) (Ricciardolo, F.L.M. (533) 240)

Arginine; Arginase; Allergy; Lung (Zimmermann, N. (533) 253)

Chronic obstructive pulmonary disease; Nitric oxide (Redington, A.E. (533) 263)

Allergy; Chemokines; Chemokine receptor (Smit, J.J. (533) 277)

Chronic obstructive pulmonary disease; Cytokine; Chemokine; Chemokine receptor (Yamagata, T. (533) 289)

Allergy; Bacterial extract; CpG motif; Hygiene hypothesis; Lipopolysaccharide; Mycobacteria; Probiotics; T helper cell; Toll-like receptors; T regulatory cells (Feleszko, W. (533) 308)

Immunoglobulin free light chain; Hypersensitivity; Mast cell; Multiple sclerosis; Rheumatoid arthritis (van der Heijden, M. (533) 319)

SCF (stem cell factor); Kit; Inflammation; Mast cell; Eosinophil (Reber, L. (533) 327)

Airway remodeling; G protein coupled receptor; PDGF (Platelet-derived growth factor); TGF-β (Transforming growth factor-β) (Gosens, R. (535) 253)

Phosphodiesterase-4; PDE4D; Cilomilast; Dexamethasone; Inflammation; Cytokines; Goblet cell; Airways hyperresponsiveness (Deng, Y.-m. (547) 125)

Adenosine A₁ receptor; Inflammation; Bronchial hyper-responsiveness; Airway; Allergen (Nadeem, A. (551) 116)

Asthma exacerbation

Transient receptor potential vanilloid 1; Cough; Acidic media (Geppetti, P. (533) 207)

Astrocyte

Methamphetamine; Edaravone; Microglia; Dopamine (Kawasaki, T. (542) 92)

Astrocytes

P2X₇ receptor; Oxidized ATP; β -actin; RBA-2 astrocytes (Chen, H.B. (550) 1)

Atherosclerosis

Simvastatin; Sister chromatid exchange; Genomic damage; Dialysis (Pernice, F. (532) 223)

Plaque; Collagen; ACAT inhibitor (Kitayama, K. (539) 81)

ACAT (Acyl-coenzyme A:cholesterol acyltransferase); Hypercholesterolemia; Pactimibe (Kitayama, K. (540) 121)

NO-1886; Inflammatory cytokine; Diabetes mellitus (Cai, M. (540) 139)

Phytoestrogen; Dihydrodaidzein; Restenosis after angioplasty; Vascular smooth muscle cell proliferation (Shen, J. (548) 123)

Calcium channel blocker; Cell adhesion molecule; Monocyte; Protein kinase; Signal transduction (Takahashi, K. (552) 162)

Atipamezole

α_2 -adrenoceptor; Descending inhibition; 5-HT_{1A} receptor; Neuropathic pain; WAY-100635 (Wei, H. (535) 157)

α_2 -Adrenoceptor; Descending inhibition; Locus coeruleus; Neuropathic pain; Noradrenergic antinociception (Wei, H. (551) 41)

Atopic dermatitis

Itch; Skin barrier dysfunction; Hairless mice (Fujii, M. (530) 152)

ATP

Vanadium; Vanadate; Decavanadate; P2X receptor (Michel, A.D. (534) 19)

Purinergic receptor; Intestine; Enteric nervous system; Secretion (Fang, X. (536) 113)

UTP; P2Y receptor; HaCaT cell; Keratinocyte; Interleukin-6 (Yoshida, H. (540) 1)

Cough reflex; Histamine; Histamine H₁ receptor; Ionotropic purinergic receptor; Rapidly adapting receptor (Kamei, J. (547) 160)

Vitamin C; Oxidative stress; Oxidant; Shear stress; Dehydroascorbic acid; Anion channels (Davis, K.A. (548) 36)

ATP binding cassette transporter A1 (ABCA1)

High-density lipoprotein (HDL); Peroxisome proliferator-activated receptors (PPARs); Liver X receptor α ; Apolipoprotein A-I (apoA-I) (Guo, L. (551) 80)

ATPase activity

Corticosteroids; p-Glycoprotein; Breast cancer resistance protein; BCRP; Calcein accumulation (Cooray, H.C. (531) 25)

ATP-binding cassette transporter A1

Reverse cholesterol transport; Liver X receptor agonist; Cellular cholesterol efflux (Johnston, T.P. (536) 232)

ATP-dependent K⁺ channel

Morphine; Jumping; Diarrhea; (Mouse) (Zarrindast, M.-R. (552) 90)

ATP-sensitive K⁺ channels

Conventional whole-cell configuration; Cytosolic extract; Glibenclamide-sensitivity; Nystatin-perforated patch recording (Teramoto, N. (531) 34)

ATP-sensitive K⁺ channels (K_{ATP} channels)

Basilar artery; Middle cerebral artery; Pressurized arteriography; Quantitative real-time PCR; Western blotting (Ploug, K.B. (553) 254)

ATP-sensitive potassium channel

Cell hypertrophy; Congestive heart failure; KR-31378; Myocardial infarction (Hwang, G.S. (540) 131)

ATP-sensitive potassium channels

Potassium channel opener; Detrusor smooth muscle; Smooth muscle relaxation; Sulfonylurea receptor; Outlet obstruction; Overactive bladder (Milicic, I. (532) 107)

Indomethacin; Gastric damage; Lipopolysaccharide (Gomes, A.S. (547) 136)

Lithium; Memory; State-dependent learning; Mouse (Zarrindast, M.-R. (550) 107)

Atrial fibrillation

Electrical remodeling; Structural remodeling; Amiodarone; Matrix metalloproteinase (Ashikaga, K. (536) 148)

Atrial myocyte

Na⁺ current (I_{Na}); Protein kinase C; Staurosporine (Ko, J.H. (534) 48)

CGP-37157; L-type Ca²⁺ current (Thu, L.T. (552) 15)

Atrial natriuretic peptide

Heart; Perfusion; Moxonidine; Imidazoline receptors; α_2 -adrenoceptors (Mukaddam-Daher, S. (541) 73)

Atropine

Nicotinic receptor; Bovine chromaffin cell (González-Rubio, J.M. (535) 13)

Hot-plate; Fluoxetine; Naloxone; Neuropathic pain; Streptozotocin; Tail-immersion (Anjaneyulu, M. (538) 80)

Atypical absence seizure

GABA_B receptor; CGP35348; Cognitive deficit; Radial arm maze (Chan, K.F.Y. (541) 64)

Atypical antipsychotic drug

Clozapine; Olanzapine; Limited access alcohol drinking; Dopamine; Selectively bred rat line (Ingman, K. (534) 133)

Autoreceptor

5-HT_{1A} receptor; 5-HT_{1B} receptor; Antagonist; 5-HT re-uptake (Scott, C. (536) 54)

Azaphenylalanine scaffold

Thrombin inhibitor; Mast cell; Histamine release; G protein; Basic secretagogue (Štampelj, M. (538) 182)

Azithromycin

Lipopolysaccharide; Pulmonary neutrophilia; Septic shock; TNF- α (Ivetic Tkalcic, V. (539) 131)

Airway; Contraction; Macrolide; Smooth muscle; Trachea (Daenas, C. (553) 280)

Azulene

Oral mucositis; Polaprezinc; Dexamethasone; 5-fluorouracil (Mitsuhashi, H. (551) 152)

Baclofen

Gamma-hydroxybutyrate; GHB; SKF97541; GABA; Xyrem; Sodium oxybate; Drug discrimination (Carter, L.P. (538) 85)

Colorimetric assay; Primary cortical neurons; Neuronal survival; Spasticity (Dario, A. (550) 33)

GABA_B (γ-aminobutyric acid_B) receptor; Alcohol deprivation effect; Relapse-like drinking; sP (Sardinian alcohol-preferring) rats (Colombo, G. (550) 123)

γ-hydroxybutyrate (GHB); Flunitrazepam; Cross-tolerance; Rotorod; Motor performance (Smith, M.A. (552) 83)

Bacterial extract

Allergy; Asthma; CpG motif; Hygiene hypothesis; Lipopolysaccharide; Mycobacteria; Probiotics; T helper cell; Toll-like receptors; T regulatory cells (Feleszko, W. (533) 308)

Baicalein

Hemin; Baicalin; Wogonin; Liver injury; HepG2 cell (Zhao, Y. (536) 192)

Baicalin

Iron overload; Liver; Flavonoids; Quercetin; Oxidation (Zhang, Y. (535) 263)

Hemin; Baicalein; Wogonin; Liver injury; HepG2 cell (Zhao, Y. (536) 192)

BAPTA/AM [1,2-bis(*o*-aminophenoxy)ethane-*N,N,N',N'*-tetraacetic acid/tetra(acetoxymethyl) ester]

Apoptosis; Beta cell; Ca²⁺ [calcium]; H₂O₂ [hydrogen peroxide] (Choi, S.-E. (547) 1)

Baroreflex sensitivity

Hypertension; Antihypertensive drug; End-organ damage; Blood pressure variability (Xie, H.-H. (543) 77)

Basal ganglia

Methamphetamine; Cocaine; Immediate early gene; Opioid peptide (Horner, K.A. (532) 61)

Parkinson's disease; Huntington's disease; Mitochondria (Di Filippo, M. (545) 65)

Basic secretagogue

Thrombin inhibitor; Mast cell; Histamine release; G protein; Azaphenylalanine scaffold (Štempelj, M. (538) 182)

Basilar artery

ATP-sensitive K⁺ channels (K_{ATP} channels); Middle cerebral artery; Pressurized arteriography; Quantitative real-time PCR; Western blotting (Ploug, K.B. (553) 254)

Basolateral amygdala

NMDA; DL-AP5; MK-801; Physostigmine; Passive avoidance learning; Retention; (Rats) (Jafari-Sabet, M. (529) 122)

[³H]Batrachotoxinin

20(*S*)protopanaxadiol; 20(*S*)protopanaxatriol; Rh₂; Brain; Synaptoneurosome (Duan, Y. (530) 9)

BAY 41-2272

Anococcygeus muscle; Soluble guanylyl cyclase; Tadalafil; Nitric oxide; Nitrogenic nerve (Teixeira, C.E. (530) 157)

Bcl-2

Lithium; Valproate; Cytotoxicity; Cytochrome *c*; Caspase-3; Bipolar disorder (Lai, J.S. (539) 18)

Isoflurane; Preconditioning; Oxygen-glucose deprivation; Extracellular signal-regulated kinase; Early growth response gene 1 (Zuo, Z. (542) 84)

Bcl-2/Bax

Palladacycle; K562; Apoptosis; Lysosomes; Acridine orange (Barbosa, C.M.V. (542) 37)

BCRP

Corticosteroids; p-Glycoprotein; Breast cancer resistance protein; Calcein accumulation; ATPase activity (Cooray, H.C. (531) 25)

BD1063

σ Receptor; MDMA; Locomotor (Brammer, M.K. (553) 141)

BDNF

Caffeic acid; Antidepressive-like effect; Forced swimming; TrkB; (Mice) (Takeda, H. (534) 115)

BDNF (brain-derived neurotrophic factor)

MK801; Valproate; Retrosplenial cortex (Jeon, G.S. (545) 142)

Behavior

Forced swim test; RB101; Brain-derived neurotrophic factor; (Rat) (Jutkiewicz, E.M. (531) 151)

Inhibition; Neurotransmitter (Deschaux, O. (535) 177)

Cocaine; Tachykinin NK₃ receptor; SR 142801; Marmoset; Sensitivity (De Souza Silva, M.A. (536) 269)

DOPA; Dopamine; Release; Cocaine; Methamphetamine; Nicotine; Nucleus accumbens; Microdialysis (Izawa, J.-i. (549) 84)

Behavioral

Pain; Hyperalgesia; Carrageenan; Single motor unit (Molina, C. (532) 50)

Behavioral activity

Deltamethrin; Gestation; Cytochrome P450; Expression; (Rat) (Johri, A. (544) 58)

Behavioral assay

Nociceptin/orphanin FQ; NOP receptor; Ac-RYYRIK-ol; Isolated tissue; (Mice) (Gündüz, Ö. (539) 39)

Behavioral sensitization

Cocaine; GABA neurotransmission; Locomotor activation; (Rat) (Filip, M. (541) 163)

Benfotiamine

Inflammatory pain; Neuropathy; Diabetes (Sánchez-Ramírez, G.M. (530) 48)

Benzodiazepine

GABA_A receptor; α5 subunit; RY-080; Proconvulsant; In vivo binding (Atack, J.R. (548) 77)

Serotonin 5-HT_{2C} receptor; Serotonin 5-HT_{1A} receptor; Anxiety (Harada, K. (553) 171)

14-Benzoyltalatisamine

Channel blocker; Delayed rectifier K⁺ channel; Drug discovery; Tetraethylammonium; Virtual screening (Song, M.-K. (531) 47)

Bepotastine besilate

Itch-associated response; Substance P; Leukotriene B₄; Histamine; Serotonin; Zileuton (Andoh, T. (547) 59)

Beraprost sodium

Intermittent claudication; Walking disturbance (Miyamoto, M. (545) 173)

Berry

American ginseng; Polyphenols; Caffeic acid; Chlorogenic acid; Antioxidant; Fluorescence; Oxidant stress; Catalase (Mehendale, S.R. (553) 209)

Beta cell

Apoptosis; BAPTA/AM [1,2-bis(*o*-aminophenoxy)ethane-*N,N,N',N'*-tetraacetic acid/tetra(acetoxymethyl) ester]; Ca^{2+} [calcium]; H_2O_2 [hydrogen peroxide] (Choi, S.-E. (547) 1)

Beta-3 adrenoceptor

SR58611A; Diabetes; Wound healing; (Mice) (Schaeffer, P. (529) 172)

Betaine/GABA transporter

GABA; Osteoblast; [^3H]GABA accumulation (Fujimori, S. (550) 24)

Bezafibrate

Methionine-choline-deficient diet; NASH; PPAR; GW501516; (Mouse) (Nagasawa, T. (536) 182)

BIBN4096BS

h- α Calcitonin gene-related peptide (h- α CGRP); h- α CGRP₈₋₃₇; [Cys(Acm)^{2,7}]-h- α CGRP; [Cys(Et)^{2,7}]-h- α CGRP; CGRP receptor; Human coronary artery (Gupta, S. (530) 107)

BIBP 3226

Mesenteric artery; Neuropeptide Y; Electrical field stimulation; Noradrenaline; Acetylcholine; (Non-obese diabetic-mice) (Gradin, K.A. (539) 184)

Bicarbonate

Amantadine; Ammonium ion; Kidney; Organic cation transport (Goralski, K.B. (541) 87)

Bicyclol

Acute hepatic failure; Lipopolysaccharide; D-galactosamine (Wang, H. (534) 194)

Bifendate

Fenofibrate; Hypercholesterolemia; Fatty liver; Triglyceride; Total cholesterol (Pan, S.-Y. (552) 170)

BIIE0246

Fluorescent probe; Neuropeptide Y; Y₂ receptor; Flow cytometry; Chimeric G protein; Aequorin (Ziemek, R. (551) 10)

Bile acid

Hepatoma; Platinum complex; Cisplatin; Carboplatin; Mitoxantrone (Barbara, C. (549) 26)

Bile duct ligation

Adrenergic hyporesponsiveness; Cholestasis; Clonidine; Endogenous opioids; Nitric oxide; (Rat) (Tavakoli, S. (542) 148)

Binding

Histamine H₁ receptor; Antihistamine; Levocetirizine; Desloratadine; Fexofenadine (Gillard, M. (530) 205)

Levetiracetam; Antiepileptic; Human brain; SV2A (Gillard, M. (536) 102)

Bioactivation

Hepatotoxicity; Reactive metabolite (Park, K.B. (549) 1)

Bioavailability

P-glycoprotein; Deoxygalactonojirimycin; Glycolipid; Drug transport; Glucosylceramide synthase inhibitor (Norris-Cervetto, E. (530) 195)

Biomarker

Alzheimer disease; Mild cognitive impairment; Cerebrospinal fluid; Amyloid precursor protein; Platelet (Borroni, B. (545) 73)

Biphenylacetic acid

Norfloxacin; Convulsion; Interleukin-1 β ; (Rats) (Zhang, L.-r. (543) 21)

2-Biphenylmorpholine compounds

Squalene synthase inhibitor; Cholesterol; Triglyceride; Low-density lipoprotein receptor; Apolipoprotein B (Tavridou, A. (535) 34)

Bipolar disorder

Lithium; Valproate; Cytotoxicity; Cytochrome *c*; Bcl-2; Caspase-3 (Lai, J.S. (539) 18)

BK_{Ca} channel

Homocysteine; Porcine coronary artery; Nicotinamide adenine dinucleotide phosphate-oxidase; Superoxide anion (Au, A.L.S. (546) 109)

BK_{Ca} channels

Salvianolic acid B; Porcine coronary artery; (*Salvia miltiorrhiza* (Danshen)) (Lam, F.F.Y. (546) 28)

Bladder

Submaxillary gland; Oral administration; Tolterodine; Oxybutynin; Muscarinic receptor binding; Salivation (Oki, T. (529) 157)

Bladder outlet obstruction

Tamsulosin; α_1 -Adrenoceptor; Intraurethral pressure; Premicturition contraction (Ohtake, A. (545) 185)

Blood ethanol levels

Nicotine; Ethanol; Conditioned taste aversion; (Rat) (Korkosz, A. (537) 99)

Blood pressure

Anandamide; Calcitonin gene-related peptide; γ -aminobutyric acid; Nitric oxide; Spinal cord (del Carmen García, M. (532) 88)

α_1 -Adrenoceptors; 5-HT receptor ligands; Phenylephrine; Pithed rat (Centurión, D. (535) 234)

Pulmonary circulation; Urotensin-II; Hypoxia; Heart failure; Pulmonary hypertension (Deuchar, G.A. (537) 135)

Ranolazine; Long-acting nitrate; Sildenafil; Heart rate; Conscious dog (Zhao, G. (541) 171)

Blood pressure variability

Hypertension; Antihypertensive drug; End-organ damage; Baroreflex sensitivity (Xie, H.-H. (543) 77)

Blood–brain barrier

Leukotriene receptor antagonist; Pranlukast; Cold injury; Brain oedema; Neuroprotection (Qian, X.-D. (549) 35)

Blueberries

Amyloid synthesis; Green tea; Curcumin; Resveratrol; Ginkgo biloba extract EGb 761 (Ramassamy, C. (545) 51)

BMS182874 (5-(dimethylamino)-*N*-(3,4-dimethyl-5-isoxazolyl)-1-Naphthalenesulfonamide)

IRL1620 {Suc-[Glu⁹,Ala¹¹,Ala¹⁵]ET-1-(8–21)}; Morphine; Analgesia; Gastrointestinal transit; Central nervous system; Endothelin; (Mice) (Matwyszyn, G.A. (543) 48)

Body temperature

Stress-induced hyperthermia; GABAA receptor; Genetic background; 5-HT₇ receptor; (Mouse) (Van Bogaert, M. (550) 84)

Body weight

Cannabinoid; Feeding behaviour; Motor activity; Drinking behaviour; (Rat) (Gardner, A. (530) 103)

SR141716; Hexarelin; Food intake; Tolerance (Rigamonti, A.E. (542) 116)

Opioid receptor antagonist; Knockout mice; Food intake (Zhang, J. (545) 147)

Body weight gain

Ghrelin; Gastric growth; Growth hormone; Insulin-like growth factor-1; Food intake (Warzecha, Z. (529) 145)

Bone formation

Endothelin; Selective ET_A receptor antagonist (Someya, A. (543) 14)

Bone marrow

Erythroblast; P2Y₁ receptor; Intracellular calcium; CaMKII; PKC (Paredes-Gamero, E.J. (534) 30)

Bone morphogenetic protein-2

Piceatannol; Osteoblasts; Cell differentiation; Alkaline phosphatase; Osteocalcin (Chang, J.-K. (551) 1)

Bone resorption

Osteoclasts; Macrophage colony stimulating factor; Imatinib; Apoptosis (El Hajj Dib, I. (551) 27)

Bovine chromaffin cell

Atropine; Nicotinic receptor (González-Rubio, J.M. (535) 13)

Bradykinin

Nicotinic acetylcholine receptor; Paratracheal ganglion neuron; Patch-clamp recording (Rong Zhou, J. (531) 96)

B₂ receptor; Peristalsis; Ileum; FR173657; Icatibant (Hoe 140) (Chan, S.K. (539) 108)

Lipopolysaccharide; Prostaglandin E₂; Glial cell (Levant, A. (546) 197)

Icatibant; LF 16-0687; Aminopeptidase N; Rabbit aorta; Angiotensin (Bawolak, M.-T. (551) 108)

Olopatadine; Substance P release; Dorsal root ganglion; Capsaicin; Transient receptor potential vanilloid 1 (Tang, H.-B. (552) 78)

Brain

20(S)protopanaxadiol; 20(S)protopanaxatriol; Rh₂; [³H]Batrachotoxinin; Synaptoneurosome (Duan, Y. (530) 9)

(–)-Epigallocatechin gallate; γ-Aminobutyric acid receptor; Intracerebroventricular injection; (Chick) (Adachi, N. (531) 171)

Kynurenic acid; Kynurenine aminotransferase; Antiepileptic drug; Epilepsy; In vitro (Kocki, T. (541) 147)

CYP2E1; Phenobarbital; Chlorzoxazone; Protein induction; (Monkey) (Lee, A.M. (552) 151)

Brain edema

Traumatic brain injury; Na-K-2Cl cotransporter; Bumetanide (Lu, K.-T. (548) 99)

Brain injury

Cerebral circulation; Signal transduction; Opioid; Prostaglandin (Armstead, W.M. (529) 129)

Brain oedema

Leukotriene receptor antagonist; Pranlukast; Cold injury; Blood–brain barrier; Neuroprotection (Qian, X.-D. (549) 35)

Brain-derived neurotrophic factor

Electroconvulsive stimuli; Adrenocorticotrophic hormone; Forced swim test (Li, B. (529) 114)

Behavior; Forced swim test; RB101; (Rat) (Jutkiewicz, E.M. (531) 151)

Brainstem cell

Maitotoxin; Ca²⁺ channel; Ca²⁺ influx; Catecholamine release; Adrenal chromaffin cell (Kakizaki, A. (536) 223)

Breast cancer cell

Chemotaxis; 17-β-estradiol; Estrogen receptor; Transforming growth factor-β; Smad proteins (Malek, D. (534) 39)

Breast cancer resistance protein

Corticosteroids; p-Glycoprotein; BCRP; Calcein accumulation; ATPase activity (Cooray, H.C. (531) 25)

BRL 37344

Formoterol; Preterm labor; cAMP; cGMP; (Rat) (Yurtcu, N. (530) 263)

Formoterol; Iris sphincter; Ciliary muscle; cAMP; cGMP; Relaxation (Topalkara, A. (548) 144)

BRL44408

Capsaicin; α-CGRP; External carotid vasodilatation; Imiloxan; MK912 (Jiménez-Mena, L.R. (543) 68)

8-bromo-cGMP

Prostaglandin E₂; Endothelial cell; L-*cis*-diltiazem; Thapsigargin; Dibutyryl cAMP; Cyclic nucleotide gated channel (Shalom, R. (543) 8)

Bromoenol lactone

Hypoxia-inducible factor-1α; Ca²⁺-independent phospholipase A₂; Hypoxia (Osada-Oka, M. (549) 58)

Bronchial epithelium

A20; Influenza virus; NF-κB; Inflammation (Onose, A. (541) 198)

Bronchial hyper-responsiveness

Adenosine A₁ receptor; Asthma; Inflammation; Airway; Allergen (Nadeem, A. (551) 116)

p38 mitogen-activated protein kinase; Airway smooth muscle; Airway wall remodelling (Nath, P. (544) 160)

Bronchoconstriction

Tachykinins; Neurokinin A; NK₂ receptor antagonist; Oral activity; Colon contraction; Gastrointestinal disorders (Cialdai, C. (549) 140)

Bronchodilatation

β-adrenoceptor; Airway; Mucociliary clearance; Inflammation; Stereoisomerism; Genetic polymorphism (Broadley, K.J. (533) 15)

Bronchoprovocation

Asthma; Allergic rhinitis; Leukotriene; Glucocorticosteroid (Dahlén, S.-E. (533) 40)

(Brown–Norway rat)

Allergic inflammation; Forced expiratory maneuver; Forced oscillation; Edema; FRC (Functional Residual Capacity); FVC (Forced Vital Capacity); IC (Inspiratory Capacity); MMEF (Mean Mid-Expiratory Flow); Cchord; Lung parenchyma; Goblet cell (Celly, C.S. (540) 147)

Brucine

Strychnine; Glycine receptor; Nicotinic acetylcholine receptor-α7 (Jensen, A.A. (539) 27)

Bumetanide

Traumatic brain injury; Na-K-2Cl cotransporter; Brain edema (Lu, K.-T. (548) 99)

Nitroprusside; Nitrate; Chloride; NKCC1; Smooth muscle (Valero, M. (553) 205)

Bundle crossing

Carvedilol; β -Adrenoceptor blocking agent; Inward rectifier K^+ channel (Kikuta, J.-i. (529) 47)

Buprenorphine

Morphine; Tramadol; Fentanyl; Antinociception; Knock-out mice; μ -opioid peptide receptor; α_2 -adrenoceptor (Özdoğan, Ü.K. (529) 105)

Analgesia; Opioid receptor binding; Pseudoirreversible binding (Englberger, W. (534) 95)

Wet-dog shakes; Icilin; Morphine; ICI 204,448; Nalfurafine; U50,488H; SNC 80 (Werkheiser, J.L. (547) 101)

Burying behaviour

Diazepam; 8-OH-DPAT; Ovariectomy; Anxiety; Menopause (Picazo, O. (530) 88)

Butyridenephthalide

Ligusticum chuanxiong; Smooth muscle relaxation; Calcium; Endothelium (Chan, S.S.-K. (537) 111)

C57BL/6

Reserpine; Nitric oxide synthase; Swiss; 7-Nitroindazole; (Mice) (Tadaiesky, M.T. (535) 199)

 Ca^{2+} [calcium]

Apoptosis; BAPTA/AM [1,2-bis(*o*-aminophenoxy)ethane-*N,N,N',N'*-tetraacetic acid/tetra(acetoxymethyl) ester]; Beta cell; H_2O_2 [hydrogen peroxide] (Choi, S.-E. (547) 1)

 Ca^{2+} channel

Insulin; Corpus cavernosum; Relaxation; Prostacyclin (Myung, S.C. (536) 142)

Maitotoxin; Brainstem cell; Ca^{2+} influx; Catecholamine release; Adrenal chromaffin cell (Kakizaki, A. (536) 223)

Ginsenoside-Rd; Receptor-operated; Store-operated; Ca^{2+} entry (Guan, Y.-Y. (548) 129)

Guinea pig; Mechanotransduction; Mechanical stress; Trachea; TRP (transient receptor potential) channel (Ito, S. (552) 135)

 Ca^{2+} channels

Tamoxifen derivatives; Impermeant triphenylethylene salts; Non-genomic effects; Uterine muscle; Intestinal muscle (Marrero-Alonso, J. (532) 115)

Endothelium; p38 MAPK (p38 mitogen-activated protein kinase); Porcine coronary arteries; Raloxifene; Vasorelaxation (Moritz, A. (545) 153)

 Ca^{2+} entry

Ginsenoside-Rd; Receptor-operated; Store-operated; Ca^{2+} channel (Guan, Y.-Y. (548) 129)

 Ca^{2+} influx

Genistein; PI-3,4,5- P_3 (dipalmitoyl L- α -phosphatidyl-D-myo-inositol 3,4,5-triphosphate); Myoblast differentiation; FAK (focal adhesion kinase); PI3-kinase (phosphoinositide 3-kinase) (Woo, J.H. (529) 84)

Maitotoxin; Ca^{2+} channel; Brainstem cell; Catecholamine release; Adrenal chromaffin cell (Kakizaki, A. (536) 223)

Glycyrrhizic acid; Neuroprotection; Glutamate; NMDA receptor; Neuronal apoptosis; Transcription factor (Cherng, J.-M. (547) 10)

Cellular alkalization; NH_4Cl ; Non-selective Ca^{2+} channels; SKF 96365 (Restini, C.A. (553) 288)

 Ca^{2+} mobilization

A549 cell; Arachidonic acid; Diadenosine polyphosphate; iNOS (inducible nitric oxide synthase) (Laubinger, W. (543) 1)

 Ca^{2+} overload

Allopurinol; Xanthine oxidase; Ischemia-reperfusion; Reactive oxygen species production (Kang, S.-M. (535) 212)

 Ca^{2+} responsiveness

Apelin; Contractility; Heart failure; Excitation-contraction coupling (Dai, T. (553) 222)

 Ca^{2+} sensitisation

Gallbladder; Rho-kinase; Y-27632 (Quinn, T. (534) 210)

 Ca^{2+} transients

Thyrotoxicosis; Cardiac myocyte shortening; Ryanodine receptor; Cyclic GMP (Zhang, Q. (537) 45)

 Ca^{2+} -activated K^+ channel

Chlorzoxazone; Thoracic artery; Relaxation (Dong, D.-L. (545) 161)

 $[Ca^{2+}]_i$

Fritillariae; Alkaloids; Anticholinergic activity; cAMP (Lin, B.-Q. (551) 125)

 Ca^{2+} -independent phospholipase A_2

Hypoxia-inducible factor-1 α ; Hypoxia; Bromoenol lactone (Osada-Oka, M. (549) 58)

 Ca^{2+} -induced Ca^{2+} releasing system

Interleukin-1 β ; Adenosine; Neuroprotection; Neurodegeneration; Hippocampus (Zhu, G. (532) 246)

 ^{45}Ca uptake

Tetrodotoxin-sensitive Na^+ channel; Na^+/Ca^{2+} -exchanger; Hippocampal synaptosome (Costa, J. (544) 39)

Caco-2 cells

Folate absorption; High glucose; Reduced Folate Transporter (Martel, F. (551) 19)

Caffeic acid

Antidepressive-like effect; Forced swimming; BDNF; TrkB; (Mice) (Takeda, H. (534) 115)

American ginseng; Berry; Polyphenols; Chlorogenic acid; Antioxidant; Fluorescence; Oxidant stress; Catalase (Mehendale, S.R. (553) 209)

Caffeine

Adenosine antagonist; Paracetamol; Antinociception; Adenosine A_{2A} receptor knockout mice (Godfrey, L. (531) 80)

Potiation; Analgesia; Ibuprofen; PIFIR model (Medina López, J.R. (544) 31)

Tardive dyskinesia; Neuroleptic; Adenosinergic receptor system; Adenosine (Bishnoi, M. (552) 55)

Calcein accumulation

Corticosteroids; p-Glycoprotein; Breast cancer resistance protein; BCRP; ATPase activity (Cooray, H.C. (531) 25)

Calceolarioside

Adriamycin; Apoptosis; Reactive oxygen species (Kim, D.-S. (541) 24)

Calcification

Mineralization; Sodium nitroprusside; Inorganic phosphate; Iron ion (Huitema, L.F.A. (542) 48)

Calcitonin gene related peptide

Ghrelin; Ischemia–reperfusion; Nitric oxide; Gastric blood flow; Angiogenesis; Hypoxia inducible factor-1 alpha (Konturek, P.C. (536) 171)

Calcitonin gene-related peptide

Anandamide; γ -aminobutyric acid; Nitric oxide; Spinal cord; Blood pressure (del Carmen García, M. (532) 88)

Calcitonin receptor-like receptor

Intermedin; Isoproterenol; Receptor-activity-modifying protein; cAMP (Jia, Y.-X. (549) 117)

Calcium

Cell volume; Cytosolic ATP; GSH (glutathione); Apoptosis; Phosphatidylserine (Akel, A. (532) 11)

Norepinephrine; Transporter; Membrane traffic (Amano, T. (536) 62)

Butylidenephthalide; *Ligusticum chuanxiong*; Smooth muscle relaxation; Endothelium (Chan, S.S.-K. (537) 111)

Endothelin; ET_B (endothelin type B); Receptor; ERK1/2 (extracellular regulation kinase 1 and 2); Contraction (Luo, G. (538) 124)

Calcium channel

Pleural mesothelial cell; Store-mediated; Mycalolide B; Actin cytoskeleton (Kuwahara, M. (542) 16)

Presynaptic; Analgesia; Anticonvulsant; Anxiolytic; Transmitter release (Joshi, I. (553) 82)

Salvianolic acid B; Danshen; *Salvia miltiorrhiza*; Coronary artery (Lam, F.F.Y. (553) 240)

Calcium channel antagonist

Nicotine; Morphine; Reinstatement; Place conditioning; (Rat) (Biala, G. (537) 85)

Calcium channel blocker

2-APB; Signal transduction; Cell signaling; Fura-2; Myosin light chain phosphorylation; Contraction (Ratz, P.H. (541) 177)

Adhesion molecule; 7-Ketocholesterol; Endothelial cell; Reactive oxygen species (Naito, Y. (546) 11)

Atherosclerosis; Cell adhesion molecule; Monocyte; Protein kinase; Signal transduction (Takahashi, K. (552) 162)

Calcium store

P2Y receptor; Enteric inhibitory neurotransmission; Calcium-dependent potassium channel; Mouse colon; Intracellular microelectrode recording (Zizzo, M.G. (544) 174)

Calcium-activated K⁺ channel

cAMP; Endothelium-derived hyperpolarizing factor; Mesenteric artery; Type 2 diabetes; (Rat) (Matsumoto, T. (538) 132)

Calcium-dependent potassium channel

P2Y receptor; Enteric inhibitory neurotransmission; Calcium store; Mouse colon; Intracellular microelectrode recording (Zizzo, M.G. (544) 174)

Calpain

Corpus cavernosum; Diabetes; Endothelium; Erectile dysfunction; Neuropathy; Nitric oxide; Smooth muscle (Nangle, M.R. (538) 148)

CaMKII

Bone marrow; Erythroblast; P2Y₁ receptor; Intracellular calcium; PKC (Paredes-Gamero, E.J. (534) 30)

cAMP

Prostaglandin E₂; Cell proliferation; Cell cycle; Cyclin (Sanchez, T. (529) 16)

Formoterol; BRL 37344; Preterm labor; cGMP; (Rat) (Yurtcu, N. (530) 263)

GLP-2 receptor; G α protein signalling; Intestinal growth; RT-PCR; Western blot (Sams, A. (532) 18)

T24 cell line; Adenosine A_{2B} receptor; 5'-N-Ethylcarboxamidoadenosine; Reverse transcriptase-polymerase chain reaction; Fluorometric imaging plate reader (Phelps, P.T. (536) 28)

Calcium-activated K⁺ channel; Endothelium-derived hyperpolarizing factor; Mesenteric artery; Type 2 diabetes; (Rat) (Matsumoto, T. (538) 132)

α 7; Nicotinic receptor; Nicotine; [³H]Methyllycaconitine; PKC; Upregulation (Nuutinen, S. (544) 21)

Formoterol; BRL 37344; Iris sphincter; Ciliary muscle; cGMP; Relaxation (Topalkara, A. (548) 144)

Intermedin; Isoproterenol; Calcitonin receptor-like receptor; Receptor-activity-modifying protein (Jia, Y.-X. (549) 117)

Fritillariae; Alkaloids; Anticholinergic activity; [Ca²⁺]_i (Lin, B.-Q. (551) 125)

Cancer

Immune response; L-type Ca²⁺ channel; Verapamil; Walker 256 tumor (Degaspero, G.R. (549) 179)

Peripheral-type benzodiazepine receptor; Ehrlich tumor; Diazepam; Ro5-4864; Proliferation (Sakai, M. (550) 8)

Candesartan cilexetil

Renin–angiotensin system; Adipokines; Adipocytes (Zorad, S. (552) 112)

(Canine)

5-HT₃ receptor; 5-HT₃ receptor agonist; 5-HT₃ receptor receptor antagonist; 5-HT_{3A}; (Dog) (Jensen, T.N. (538) 23)

Canine

TRPM8; Menthol; Icilin; Cold allodynia; Thermosensation (Liu, Y. (530) 23)

cannabinoid

WIN55212-2 [methanone mesylate]; IL-8 [interleukin-8]; I κ B [inhibitory kappa B]; NF- κ B [nuclear factor-kappa B]; CB₂ receptor; HT-29 (Mormina, M.E. (540) 183)

Cannabinoid

Narcotics; Opioid; Pain (Roberts, J.D. (530) 54)

Feeding behaviour; Motor activity; Drinking behaviour; Body weight; (Rat) (Gardner, A. (530) 103)

2-Arachidonoylglycerol; Cannabinoid receptor agonist; Cannabinoid receptor antagonist; Inflammation; Ear swelling (Oka, S. (538) 154)

Opioid; Synergy; Enhanced antinociception (Williams, I.J. (539) 57)

Amyotrophic lateral sclerosis; Neuroinflammation (Kim, K. (542) 100)

Anandamide; NANC (nonadrenergic noncholinergic) relaxation; NO (nitric oxide); Corpus cavernosum; (Rat) (Ghasemi, M. (544) 138)

Vanilloid; Antinociception (Haller, V.L. (546) 60)

Neutrophil; Transmigration; Chemotaxis; Interleukin 8 (Nilsson, O. (547) 165)

Improgan; Analgesia; Pain; Cannabinoid CB₁ receptor; Tetrahydrocannabinol (Nalwalk, J.W. (549) 79)

CB₁ receptor; Corticosterone; Plasma; Rodent (Wade, M.R. (551) 162)

Agmatine; WIN 55212-2; Hypothermia; Imidazoline; CB₁ (Rawls, S.M. (553) 89)

Cannabinoid CB₁ receptor

5-hydroxytryptamine; Amygdale (Ashton, J.C. (537) 70)

ACEA (Arachidonyl-2-chloroethylamide); Chimney test; Interaction index; Isobolographic transformation; Maximal electroshock; Neuromuscular grip strength; Pharmacokinetic interaction; Protective index; Valproic acid (Luszczki, J.J. (547) 65)

Improgan; Analgesia; Pain; Cannabinoid; Tetrahydrocannabinol (Nalwalk, J.W. (549) 79)

Cannabinoid CB₁ receptors

Noradrenergic neurons; WIN 55212-2; CP 55940; Single-unit extracellular recordings; Slice; In vivo (Mendiguren, A. (534) 83)

Cannabinoid CB₂ receptor

Itch-associated response; NC mouse (Maekawa, T. (542) 179)

Cannabinoid receptor

Anandamide; Glucose intolerance (Bermúdez-Siva, F.J. (531) 282)

Cannabinoid receptor agonist

Cannabinoid; 2-Arachidonoylglycerol; Cannabinoid receptor antagonist; Inflammation; Ear swelling (Oka, S. (538) 154)

Cannabinoid receptor antagonist

Cannabinoid; 2-Arachidonoylglycerol; Cannabinoid receptor agonist; Inflammation; Ear swelling (Oka, S. (538) 154)

Cannabinoid receptors

Anandamide; Endocannabinoids; Fatty-acid ethanolamides; Oleoylethanolamide; Palmitoylethanolamide; Rofecoxib; Ibuprofen; Fatty-acid amide hydrolase; Nonsteroidal anti-inflammatory drugs; Capsazepine; Formalin test; Inflammatory pain (Guindon, J. (550) 68)

Cannabinoid system

Drug discrimination; Nicotine; Nicotinic acetylcholine receptor; Rat (Zaniewska, M. (540) 96)

Cannabinoids

IL-12; Vanilloid receptor; 2-arachidonoylglycerol; Dendritic cells (Lu, T. (532) 170)

Δ⁹-tetrahydrocannabinol; Catalepsy; 5-HT_{1A} receptor; 5-HT (5-hydroxytryptamine, serotonin); (Mouse) (Egashira, N. (550) 117)

Capsaicin

Capsazepine; Intestine; Myosin light chain; K⁺ channel (Fujimoto, S. (530) 144)

Glucose absorption test; Glucagon mobilization; Capsaicin-induced glucagon mobilization; Human healthy subjects (Dömötör, A. (534) 280)

Anandamide; Protons; TRPV1 (transient receptor potential vanilloid 1); Ligand-gated ion channel; Pain (Bianchi, B.R. (537) 20)

BRL44408; α-CGRP; External carotid vasodilatation; Imiloxan; MK912 (Jiménez-Mena, L.R. (543) 68)

Olopatadine; Substance P release; Dorsal root ganglion; Bradykinin; Transient receptor potential vanilloid 1 (Tang, H.-B. (552) 78)

Capsaicin-induced glucagon mobilization

Capsaicin; Glucose absorption test; Glucagon mobilization; Human healthy subjects (Dömötör, A. (534) 280)

Capsazepine

Capsaicin; Intestine; Myosin light chain; K⁺ channel (Fujimoto, S. (530) 144)

Anandamide; Endocannabinoids; Fatty-acid ethanolamides; Oleoylethanolamide; Palmitoylethanolamide; Cannabinoid receptors; Rofecoxib; Ibuprofen; Fatty-acid amide hydrolase; Nonsteroidal anti-inflammatory drugs; Formalin test; Inflammatory pain (Guindon, J. (550) 68)

Captopril

Myeloperoxidase; LDL; ACE inhibitor; Apolipoprotein B-100 (Van Antwerpen, P. (537) 31)

Carbachol

Cl[−] secretion; Mouse colon; Muscarinic receptor (Haberberger, R. (530) 229)

Cholecystokinin; Human gallbladder; Rho-kinase; Y-27632 (Büyükaşar, K. (540) 162)

Carbamazepine

Imipramine; Fluvoxamine; Milnacipran; Writhing test; (Mouse) (Aoki, M. (550) 78)

Oxygen/glucose deprivation; Population spike; Neuroprotection; Phenytoin (Tanabe, M. (553) 104)

Mood stabilizers; Valproate; Lithium; Prepulse inhibition; Apomorphine; Dizocilpine (Umeda, K. (553) 157)

Carbocisteine

Glycosyltransferase mRNA; Sialyl-Lewis x; Phosphatidyl inositol-specific phospholipase C; NCI-H292; TNF-α (Ishibashi, Y. (530) 223)

Carbonyl reductase

All-*trans* retinal; Quinone; Flavonoid; Pig heart (Shimada, H. (540) 46)

Carboplatin

Hepatoma; Platinum complex; Bile acid; Cisplatin; Mitoxantrone (Barbara, C. (549) 27)

Carboxyamido-triazole

Human breast cancer; Cell cycle; Apoptosis; Mitochondrial membrane potential (Guo, L. (538) 15)

Carboxylated metabolite

Pentoxifylline; TNF-α; Macrophage; Endothelium; ABC transporter (Fantin, M. (535) 301)

Carboxymethyl-chitosan

Chondrocyte; Apoptosis; Mitochondrion; Nitric oxide; Reactive oxygen species (Chen, Q. (541) 1)

Cardamonin

Alpinia rafflesiana; RAW 264.7; Whole blood; Inflammatory mediator (Ahmad, S. (538) 188)

Cardiac electrophysiology

Sarcoplasmic reticulum; L-type calcium current; Na–Ca exchange; Arrhythmogenesis (Hove-Madsen, L. (553) 215)

Cardiac function

Mitiglinide; Sulfonylureas; K_{ATP} channel; Ischemia-reperfusion; Coronary perfusion flow (Maruyama, I. (531) 194)

Cyclic GMP; Endothelium; Hypertension; Phosphodiesterase (Ferreira-Melo, S.E. (542) 141)

Cardiac hypertrophy

PPAR γ ; Fatty acid metabolism (Edgley, A.J. (538) 195)

Neurotensin; Ventricular contractility; Myocardial norepinephrine (Osadchii, O. (553) 246)

Cardiac myocyte shortening

Thyrotoxicosis; Ca^{2+} transients; Ryanodine receptor; Cyclic GMP (Zhang, Q. (537) 45)

Cardiac preconditioning

Anaesthetic preconditioning; Xenon; Mitochondrial adenosine triphosphate dependent potassium channel; Protein kinase C; 3Phosphatidylinositol-dependent kinase-1 (Weber, N.C. (539) 1)

Cardiomyocyte

Antioxidant effect; Ginsenoside Re; ESR spectroscopy; Ischemia and reperfusion damage; Antimycin A; H_2O_2 (Xie, J.-T. (532) 201)

Reperfusion injury; Microtubule; Tubulin ligand; Superoxide; NADPH oxidase (Devillard, L. (548) 64)

Cardio-protection

Furindipine; Ischemia and re-perfusion; Arrhythmias; (Rat) (Krzemiński, T.F. (549) 91)

Cardioprotection

CGRP (calcitonin gene-related peptide); Ischemia/reperfusion; Left ventricular pressure; Coronary flow; Infarct size (Chai, W. (531) 246)

Cardioprotective effects

KR-33028; Na^+/H^+ exchanger; Hypoxia; Ischemia (Jung, Y.-S. (535) 220)

Cardiovascular ischemia

COX-1/COX-2-dependent TxA_2 ; Licofelone; Leukocyte activation (Rotondo, S. (546) 95)

Cariporide

Aging; Hypoxia; Reoxygenation; Endothelium; Vasorelaxation (Besse, S. (531) 187)

Carotid artery

Hyperhomocysteinemia; α_{1D} -adrenoceptor; Modulation; Relaxation; Phenylephrine; Nitric oxide; Oxidative stress (de Andrade, C.R. (543) 83)

Carotid sinus nerve

Cyclic phosphatidic acid; Respiration; Vagus; Intravenous administration (Hotta, H. (543) 27)

Carrageenan

Pain; Hyperalgesia; Single motor unit; Behavioral (Molina, C. (532) 50)

Angiotensin II; Edema; Mast cell; Dextran (Carvalho, R.F. (540) 175)

Paw edema; Superoxide anion; Peroxynitrite; SOD mimetic; Hyperalgesia; TEMPOL (Khattab, M.M. (548) 167)

Cartilage proteoglycan

Apocynin; Zymosan-induced ear swelling; Zymosan-induced arthritis (Hougee, S. (531) 264)

Carvedilol

β -Adrenoceptor blocking agent; Inward rectifier K^+ channel; Bundle crossing (Kikuta, J.-i. (529) 47)

 β -Casomorphin-5

μ -Opioid receptor; Spontaneous alternation; Passive avoidance; Scopolamine (Sakaguchi, M. (530) 81)

Caspase

Secretory phospholipase A_2 ; Apoptosis; Poly (ADP-ribose) polymerase; TNF- α ; Cytochrome c (Lee, C. (536) 47)

Serofendic acid; Neuroprotection; Glutamate; Mitochondria (Kume, T. (542) 69)

Caspase-3

Lithium; Valproate; Cytotoxicity; Cytochrome c; Bcl-2; Bipolar disorder (Lai, J.S. (539) 18)

Caspase-3 and 8

Platycodin D; NF- κ B activation; HaCaT cells; Apoptosis; Fas and Fas ligand (Ahn, K.S. (537) 1)

Caspases

Apoptosis; Flavonoids; Cytotoxic activity; DNA fragmentation; poly(ADP-ribose) polymerase (Rubio, S. (548) 9)

Catalase

Luteolin (3',4',5,7-tetrahydroxyflavone); Human lung squamous carcinoma CH27 cell line; Superoxide dismutase; Apoptosis (Wing-Cheung Leung, H. (534) 12)

American ginseng; Berry; Polyphenols; Caffeic acid; Chlorogenic acid; Antioxidant; Fluorescence; Oxidant stress (Mehendale, S.R. (553) 209)

Catalepsy

Dizocilpine maleate; NMDA receptor antagonist; Locomotion; Immobility; Haloperidol (Tang, Y. (537) 77)

Δ^9 -tetrahydrocannabinol; Cannabinoids; 5-HT $_{1A}$ receptor; 5-HT (5-hydroxytryptamine, serotonin); (Mouse) (Egashira, N. (550) 117)

6-OHDA-lesioned rat; Priming; Histamine H_3 receptor; Dopamine D_1 receptor; Vacuous chewing movement; Striatum; Microdialysis (Nowak, P. (552) 46)

Catecholamine release

Maitotoxin; Ca^{2+} channel; Brainstem cell; Ca^{2+} influx; Adrenal chromaffin cell (Kakizaki, A. (536) 223)

Catecholamines

Histamine; Cyclooxygenase-1; Thromboxane A_2 ; Adrenal medulla (Shimizu, T. (541) 152)

Galantamine; K_{Ca2} channels; Chromaffin cell; Apamin (Alés, E. (548) 45)

Cathepsin S

Delayed-type hypersensitivity; Antagonist (Desai, S.N. (538) 168)

Caveolin-1

Acetylcholine; Endothelium-dependent relaxation; Aorta; $+db/+db$ mice (Lam, T.Y. (546) 134)

- CB₁**
Agmatine; WIN 55212-2; Cannabinoid; Hypothermia; Imidazoline (Rawls, S.M. (553) 89)
- CB₁ receptor**
Paracetamol; Analgesic activity (Ottani, A. (531) 280)
- Cannabinoid; Corticosterone; Plasma; Rodent (Wade, M.R. (551) 162)
- CB₂ receptor**
WIN55212-2 [methanone mesylate]; IL-8 [interleukin-8]; I κ B [inhibitory kappa B]; NF- κ B [nuclear factor-kappa B]; cannabinoid; HT-29 (Mormina, M.E. (540) 183)
- Cchord**
Allergic inflammation; Forced expiratory maneuver; Forced oscillation; Edema; FRC (Functional Residual Capacity); FVC (Forced Vital Capacity); IC (Inspiratory Capacity); MMEF (Mean Mid-Expiratory Flow); Lung parenchyma; Goblet cell; (Brown–Norway rat) (Celly, C.S. (540) 147)
- CCl₄-induced acute hepatic failure**
Multidrug resistance-associated protein 2; 2,4-Dinitrophenyl-S-glutathione; Hyperbilirubinemia; Intestinal efflux (Yokooji, T. (546) 152)
- Cecal ligation and puncture**
Vitamin C; Vitamin E; Cytochrome P450 isozyme; Oxidative stress (Kim, J.-Y. (534) 202)
- Celecoxib**
CIAA; Rofecoxib; COX-2; Peripheral (Okumura, T. (539) 125)
- B cell**
Histamine; T cell; Histamine receptor; Inflammation; Allergy; Asthma (Akdis, C.A. (533) 69)
- Cell adhesion molecule**
Delayed hypersensitivity; T-lymphocyte; Lymphocyte function-associated antigen-1; Receptor antagonist (Panzenbeck, M.J. (534) 233)
- Atherosclerosis; Calcium channel blocker; Monocyte; Protein kinase; Signal transduction (Takahashi, K. (552) 162)
- Cell cycle**
Prostaglandin E₂; Cell proliferation; Cyclin; cAMP (Sanchez, T. (529) 16)
- Carboxyamido-triazole; Human breast cancer; Apoptosis; Mitochondrial membrane potential (Guo, L. (538) 15)
- Cell death**
Nuclear factor-kappaB; Neurodegeneration; Amyloid beta; c-Rel; p65 (Pizzi, M. (545) 22)
- Neurogenesis; Neural progenitor cell; Trophic factor; Antioxidant (Niidome, T. (548) 1)
- Cell differentiation**
Piceatannol; Osteoblasts; Alkaline phosphatase; Osteocalcin; Bone morphogenetic protein-2 (Chang, J.-K. (551) 1)
- Cell hypertrophy**
Congestive heart failure; KR-31378; Myocardial infarction; ATP-sensitive potassium channel (Hwang, G.S. (540) 131)
- Cell injury**
1-Methyl-4-phenylpyridinium; Piperine; PC12 cells; Mitochondrial membrane permeability (Lee, C.S. (537) 37)
- Cell proliferation**
Prostaglandin E₂; Cell cycle; Cyclin; cAMP (Sanchez, T. (529) 16)
- Iron chelation; Human hepatocyte; Polyamine metabolism (Chantrel-Groussard, K. (541) 129)
- Cell signaling**
2-APB; Signal transduction; Calcium channel blocker; Fura-2; Myosin light chain phosphorylation; Contraction (Ratz, P.H. (541) 177)
- Cell volume**
Cytosolic ATP; GSH (glutathione); Apoptosis; Phosphatidylserine; Calcium (Akel, A. (532) 11)
- Cell-cycle arrest**
Tricyclic antidepressant; HT29 colorectal tumor cell; Apoptotic cell death; Non-mitochondrial pathway (Arimochi, H. (541) 17)
- Cellular alkalization**
Ca²⁺ influx; NH₄Cl; Non-selective Ca²⁺ channels; SKF 96365 (Restini, C.A. (553) 288)
- Cellular cholesterol efflux**
Reverse cholesterol transport; Liver X receptor agonist; ATP-binding cassette transporter A1 (Johnston, T.P. (536) 232)
- Central nervous system**
IRL1620 {Suc-[Glu⁹,Ala¹¹,Ala¹⁵]ET-1-(8–21)}; BMS182874 (5-(dimethylamino)-N-(3,4-dimethyl-5-isoxazolyd)-1-Naphthalenesulfonamide); Morphine; Analgesia; Gastrointestinal transit; Endothelin; (Mice) (Matwyshyn, G.A. (543) 48)
- Ceramide**
TPCK (N-tosyl-L-phenylalanyl-chloromethyl ketone); Hypoxia-ischemia; Neuroprotection; Apoptosis; Newborn rat (Feng, Y. (551) 34)
- Cerebellar granule cell**
Honokiol; Magnolol; Oxidative stress; Excitotoxicity (Lin, Y.-R. (537) 64)
- Cerebral artery**
Angiotensin II; Vasodilatation; Endothelium-derived hyperpolarising factor (Wackenfors, A. (531) 259)
- Mechanical stretch; Myosin phosphorylation; Protein kinase C; Rho-kinase; Shortening velocity (Obara, K. (534) 141)
- Cerebral blood flow**
Migraine; Adrenomedullin; Adrenomedullin receptor antagonist; Middle cerebral artery; Middle meningeal artery (Juhl, L. (538) 101)
- Cerebral circulation**
Signal transduction; Opioid; Prostaglandin; Brain injury (Armstead, W.M. (529) 129)
- Cerebral cortex**
Nipradilol; Nitric oxide; Glutamate; NMDA receptor (Taguchi, R. (535) 86)
- Cerebral hypoperfusion**
Pinocembrin; Cognitive; Mitochondria (Guang, H.-M. (542) 77)
- Cerebral ischemia**
Hippocampus; Hepatocyte growth factor; Extracellular signal-regulated kinase (Niimura, M. (535) 114)
- Gerbil; Histamine; Histamine H₃ receptor; L-Histidine; Hypothermia; Thio-
peramide (Adachi, N. (546) 69)

Cerebral metabolism

[Lys⁷]dermorphin; Deoxyglucose; Analgesia (Pontieri, F.E. (544) 17)

Cerebrospinal fluid

Alzheimer disease; Mild cognitive impairment; Biomarker; Amyloid precursor protein; Platelet (Borroni, B. (545) 73)

CFTR (cystic fibrosis transmembrane conductance regulator)

Genistein; NKCC1; Smooth muscle; (Rat) (Valero, M.S. (544) 128)

c-Fos

Conditioned fear stress (CFS); Citalopram; Serotonin; Anxiolytic; Selective serotonin reuptake inhibitor (SSRI) (Izumi, T. (534) 129)

c-Fos

Olopatadine hydrochloride; Contact dermatitis; Substance P; Eczematous lesion (Hamada, R. (547) 45)

c-fos expression

mGlu2/3 receptor; Prepulse inhibition; Locomotion; Schizophrenia (Imre, G. (544) 77)

c-Fos expression

Opioid dependence; IRAS; Imidazoline I₁ receptor; Agmatine; Intracellular Ca²⁺ concentration; CREB phosphorylation; ERK phosphorylation (Wu, N. (548) 21)

cGMP

Formoterol; BRL 37344; Preterm labor; cAMP; (Rat) (Yurtcu, N. (530) 263)

Development; Cholinergic; Purinergic; Rho-kinase (Ekman, M. (532) 99)

Formoterol; BRL 37344; Iris sphincter; Ciliary muscle; cAMP; Relaxation (Topalkara, A. (548) 144)

CGP35348

GABA_B receptor; Atypical absence seizure; Cognitive deficit; Radial arm maze (Chan, K.F.Y. (541) 64)

CGP-37157

L-type Ca²⁺ current; Atrial myocyte (Thu, L.T. (552) 15)

α-CGRP

BRL44408; Capsaicin; External carotid vasodilatation; Imiloxan; MK912 (Jiménez-Mena, L.R. (543) 68)

CGRP (calcitonin gene-related peptide)

Ischemia/reperfusion; Left ventricular pressure; Coronary flow; Infarct size; Cardioprotection (Chai, W. (531) 246)

CGRP receptor

BIBN4096BS; h-αCalcitonin gene-related peptide (h-αCGRP); h-αCGRP₈₋₃₇; [Cys(Acm)^{2,7}]-h-αCGRP; [Cys(Et)^{2,7}]-h-αCGRP; Human coronary artery (Gupta, S. (530) 107)

Channel blocker

14-Benzoyltalatisamine; Delayed rectifier K⁺ channel; Drug discovery; Tetraethylammonium; Virtual screening (Song, M.-K. (531) 47)

Charged amino acid

Dopamine transporter; Cocaine; Mutant; Glutamate (Dar, D.E. (538) 43)

Chelerythrine

Diabetes; Rat mesenteric bed; Endothelium; Streptozotocin; Lovastatin (Fatehi-Hassanabad, Z. (535) 228)

Chemokine

Acyclic nucleoside phosphonate; Cytokine; Adenosine receptor (Kmoníčková, E. (530) 179)

Melanocortin; Cytokine; Inflammation; Myocardial ischaemia (Getting, S.J. (532) 138)

Asthma; Chronic obstructive pulmonary disease; Cytokine; Chemokine receptor (Yamagata, T. (533) 289)

Chemokine receptor

Allergy; Asthma; Chemokines (Smit, J.J. (533) 277)

Asthma; Chronic obstructive pulmonary disease; Cytokine; Chemokine (Yamagata, T. (533) 289)

Chemokines

Allergy; Asthma; Chemokine receptor (Smit, J.J. (533) 277)

Chemotaxis

Human neutrophil; Formylpeptide; Superoxide anion release; Protein kinase C; MAP kinase (Selvatici, R. (534) 1)

17-β-estradiol; Estrogen receptor; Transforming growth factor-β; Smad proteins; Breast cancer cell (Malek, D. (534) 39)

Neutrophil; Cannabinoid; Transmigration; Interleukin 8 (Nilsson, O. (547) 165)

Statin; Adhesion molecule; Cytoskeleton; Endothelial cell; Monocyte (Pozo, M. (548) 53)

(Chick)

(–)-Epigallocatechin gallate; γ-Aminobutyric acid receptor; Brain; Intracerebroventricular injection (Adachi, N. (531) 171)

Chimeric G protein

Fluorescent probe; Neuropeptide Y; Y₂ receptor; Flow cytometry; Aequorin; BIIE0246 (Ziemek, R. (551) 10)

Chimeric G_{αq/o}-protein

Aplindore; Dopamine D₂ receptor; Intracellular calcium flux; ERK-phosphorylation; [³⁵S]GTPγS; Unilaterally 6-hydroxydopamine lesioned rat (Heinrich, J.N. (552) 36)

Chimney test

ACEA (Arachidonyl-2-chloroethylamide); Cannabinoid CB₁ receptor; Interaction index; Isobolographic transformation; Maximal electroshock; Neuromuscular grip strength; Pharmacokinetic interaction; Protective index; Valproic acid (Luszczki, J.J. (547) 65)

Chloride

Nitroprusside; Nitrate; NKCC1; Bumetanide; Smooth muscle (Valero, M. (553) 205)

Chlorogenic acid

American ginseng; Berry; Polyphenols; Caffeic acid; Antioxidant; Fluorescence; Oxidant stress; Catalase (Mehendale, S.R. (553) 209)

Chlorzoxazone

Ca²⁺-activated K⁺ channel; Thoracic artery; Relaxation (Dong, D.-L. (545) 161)

CYP2E1; Phenobarbital; Brain; Protein induction; (Monkey) (Lee, A.M. (552) 151)

Cholecystokinin

Carbachol; Human gallbladder; Rho-kinase; Y-27632 (Büyükaşar, K. (540) 162)

Cholera toxin

Dendritic cell; Sesquiterpene; Th1 response; Th2 response (Takei, M. (537) 190)

Cholestasis

Adrenergic hyporesponsiveness; Bile duct ligation; Clonidine; Endogenous opioids; Nitric oxide; (Rat) (Tavakoli, S. (542) 148)

Cholesterol

Squalene synthase inhibitor; 2-Biphenylmorpholine compounds; Triglyceride; Low-density lipoprotein receptor; Apolipoprotein B (Tavridou, A. (535) 34)

Apical sodium-dependent bile acid transporter; Enterohepatic circulation; Hypocholesterolemic agent; Monkey; Hamster (Kitayama, K. (539) 89)

Lipid raft; G protein coupled receptor; SB269970; Serotonin; 5-HT₇ receptor (Sjögren, B. (552) 1)

Cholesterol lowering

Platycodin D; Anti-obesity; ACAT inhibition; Farnesoid X receptor (Zhao, H.L. (537) 166)

Choline

Acetylcholine; $\alpha 3\beta 4$ nicotinic receptor; $\alpha 7$ nicotinic receptor; Voltage-dependence (González-Rubio, J.M. (535) 53)

Choline acetyltransferase

Cyclooxygenase-2; Aluminum overload; Meloxicam; Impairment of learning and memory function; Neuronal death; Amyloid beta; Malondialdehyde (Jun-Qing, Y. (547) 52)

Cholinergic

Development; Purinergic; Rho-kinase; cGMP (Ekman, M. (532) 99)

Ghrelin; Tachykininergic; Nitrgergic; Stomach; (Rat) (Bassil, A.K. (544) 146)

Inhibition; Nicotinic receptor; Associative learning (MacLeod, J.E. (551) 76)

Cholinergic nerve

Rho-kinase; Trachea; Smooth muscle contraction; Acetylcholine release (Fernandes, L. (550) 155)

Chondrocyte

Carboxymethyl-chitosan; Apoptosis; Mitochondrion; Nitric oxide; Reactive oxygen species (Chen, Q. (541) 1)

Chromaffin cell

Galantamine; K_{Ca}2 channels; Catecholamines; Apamin (Alés, E. (548) 45)

Preconditioning; Depolarization; Cytoprotection; Veratridine (Orozco, C. (553) 28)

Chroman carboxamide

Interleukin-6; Inflammatory cytokine; Nuclear factor- κ B; Lipopolysaccharide; Macrophage (Hak Kim, B. (543) 158)

Chronic

Inflammation; Acute; Inhibitor; Phospholipase A₂ (Malaviya, R. (539) 195)

Chronic constriction injury

Neuropathy; Nitric oxide modulator (Naik, A.K. (530) 59)

Chronic desipramine treatment

α_2 -adrenoceptor; κ -opioid receptor; μ -opioid receptor; Sympathetic innervation; Myenteric plexus (Canciani, L. (553) 269)

Chronic hypoxia

Dexfenfluramine; Pulmonary hypertension; Valvulopathy; Imaging; (Rat) (Rochefort, G.Y. (550) 149)

Chronic nicotine

Motor activity; Dopamine; Nucleus accumbens; Dorsal striatum (Tammimäki, A. (531) 118)

Chronic obstructive pulmonary disease

Asthma; Prostanoid; Isoprostanes (Rolin, S. (533) 89)

Phosphodiesterase; Phosphodiesterase inhibitor; Asthma; Cilomilast; Roflumilast; Rolipram (Fan Chung, K. (533) 110)

Tachykinin; Substance P; Neurokinin A; Asthma; Airway inflammation (De Swert, K.O. (533) 171)

Asthma; Nitric oxide (Redington, A.E. (533) 263)

Asthma; Cytokine; Chemokine; Chemokine receptor (Yamagata, T. (533) 289)

Chronic pain

Fluvoxamine; 5-HT; Sciatic nerve ligation; μ -Opioid receptor; δ -Opioid receptor (Nozaki, C. (552) 99)

Chronic rejection

Pirfenidone; Transplantation (Dosanjh, A. (536) 219)

Chymase

Mast cell; IL-8/MIP-2; Eosinophil; Neutrophil (Terakawa, M. (538) 175)

CIAA

Celecoxib; Rofecoxib; COX-2; Peripheral (Okumura, T. (539) 125)

Ciclamilast

Phosphodiesterase-4; PDE4D; Dexamethasone; Inflammation; Cytokines; Goblet cell; Airways hyperresponsiveness; Asthma (Deng, Y.-m. (547) 125)

Ciliary muscle

Formoterol; BRL 37344; Iris sphincter; cAMP; cGMP; Relaxation (Topalkara, A. (548) 144)

Cilomilast

Phosphodiesterase; Phosphodiesterase inhibitor; Asthma; Chronic obstructive pulmonary disease; Roflumilast; Rolipram (Fan Chung, K. (533) 110)

Cinnamaldehyde

H-ras12V; Hepatocellular carcinoma; Long-term treatment (Moon, E.-Y. (530) 270)

Rat cerebral microvascular endothelial cell; Interleukin-1 β ; Cyclooxygenase; Prostaglandin E₂; Real-time RT-PCR (Guo, J.-Y. (537) 174)

Cisplatin

Sensory neuropathy; Insulin resistance (Szilvássy, J. (531) 217)

Lipid peroxidation; Enzymatic antioxidant; Hepatotoxicity (Pratibha, R. (532) 290)

mdr1a; *mdr1b*; *mnp2*; Neuropathy; Mononeuropathy (Balayssac, D. (544) 49)

Hepatoma; Platinum complex; Bile acid; Carboplatin; Mitoxantrone (Barbara, C. (549) 27)

Citalopram

Neonatal treatment; Imipramine; Locomotor activity; Sexual behavior (Maciag, D. (532) 265)

Conditioned fear stress (CFS); Serotonin; Anxiolytic; Selective serotonin reuptake inhibitor (SSRI); c-Fos (Izumi, T. (534) 129)

Citrulline

Airway hyperresponsiveness; Airway smooth muscle; Allergic asthma; Arginine; Argininosuccinate lyase; Argininosuccinate synthase; Guinea pig; Inhibitory nonadrenergic noncholinergic nerve; Nitric oxide synthase (Maarsingh, H. (546) 171)

c-kit/CD117

Imatinib (Glivec®/STI571); Tyrosine-kinase cascade; Interstitial Cajal-like cell (Popescu, L.M. (546) 177)

Cl[−] channel

Histamine; K⁺ channel; Rat colon (Schultheiss, G. (546) 161)

Cl[−] secretion

Carbachol; Mouse colon; Muscarinic receptor (Haberberger, R. (530) 229)

Clonidine

Adrenergic hyporesponsiveness; Bile duct ligation; Cholestasis; Endogenous opioids; Nitric oxide; (Rat) (Tavakoli, S. (542) 148)

Clorgyline

In vivo microdialysis; Conditioned fear stress; Li₂CO₃; Serotonin; Noradrenaline (Kitaichi, Y. (532) 236)

Closed cranial impact

Aconitase; Antioxidant; Mn (III) porphyrin; Superoxide dismutase; Traumatic brain injury; (Mouse) (Leinenweber, S.B. (531) 126)

Clozapine

Olanzapine; Limited access alcohol drinking; Dopamine; Atypical antipsychotic drug; Selectively bred rat line (Ingman, K. (534) 133)

Cocaine

Sensitization; Microdialysis; Motor activity; Glutamate; GABA (Jayaram, P. (531) 74)

Methamphetamine; Immediate early gene; Opioid peptide; Basal ganglia (Horner, K.A. (532) 61)

σ receptor; Dopamine release; Dopamine transporter; Protein kinase C (Nuwayhid, S.J. (535) 98)

Tachykinin NK₃ receptor; SR 142801; Marmoset; Behavior; Sensitivity (De Souza Silva, M.A. (536) 269)

Dopamine transporter; Charged amino acid; Mutant; Glutamate (Dar, D.E. (538) 43)

Intimin; Type III secretion system; Mucosa-adherent bacterium; Norepinephrine; Enteric nervous system (Chen, C. (539) 116)

GABA neurotransmission; Locomotor activation; Behavioral sensitization; (Rat) (Filip, M. (541) 163)

σ receptor; Convulsion; Locomotor activity (Daniels, A. (542) 61)

DOPA; Dopamine; Release; Methamphetamine; Nicotine; Behavior; Nucleus accumbens; Microdialysis (Izawa, J.-i. (549) 84)

Cocaine self-administration

Delta opioid receptor agonist; SNC80; (Rhesus monkey) (Do Carmo, G.P. (547) 92)

Cognition

Muscarinic receptor; Transgenic mouse; Animal model; Anxiety (Degroot, A. (531) 183)

Antipsychotic; Exposure; Serum level; (Rat) (Didriksen, M. (542) 108)

5-HT; Memory; Water maze; Acetylcholine; *In vivo* microdialysis (Hirst, W.D. (553) 109)

Schizophrenia; α₇ Nicotinic receptor; 5-HT₃ receptor; NMDA receptor; Tropisetron (Hashimoto, K. (553) 191)

Cognitive

Pinocembrin; Cerebral hypoperfusion; Mitochondria (Guang, H.-M. (542) 77)

Cognitive deficit

GABA_B receptor; CGP35348; Atypical absence seizure; Radial arm maze (Chan, K.F.Y. (541) 64)

Cognitive impairment

Alzheimer's disease; Antioxidant; Colchicine; Oxidative stress; Cyclooxygenase inhibitor (Kumar, A. (551) 58)

Colchicine

Hydroxyacetophenone; Horseradish peroxidase; Vesicular transport (Tradtrantip, L. (547) 152)

Alzheimer's disease; Antioxidant; Cognitive impairment; Oxidative stress; Cyclooxygenase inhibitor (Kumar, A. (551) 58)

Cold allodynia

TRPM8; Menthol; Icilin; Thermosensation; Canine (Liu, Y. (530) 23)

Cold injury

Leukotriene receptor antagonist; Pranlukast; Brain oedema; Blood–brain barrier; Neuroprotection (Qian, X.-D. (549) 35)

Cold remedies

Ranbezolid; Pressor response; Tyramine; Oxazolidinone (Naruganahalli, K.S. (545) 167)

Colitis

Tachykinin NK₁ receptor; Substance P; RP 67580; (Mice) (Rijnierse, A. (548) 150)

Collagen

Atherosclerosis; Plaque; ACAT inhibitor (Kitayama, K. (539) 81)

Colon cancer

G₁-phase block; Apoptosis; Ibuprofen (Janssen, A. (540) 24)

Colon contraction

Tachykinins; Neurokinin A; NK₂ receptor antagonist; Oral activity; Gastrointestinal disorders; Bronchoconstriction (Cialdai, C. (549) 140)

Colorimetric assay

Primary cortical neurons; Baclofen; Neuronal survival; Spasticity (Dario, A. (550) 33)

Compliance

Experimental asthma; Pulmonary mechanics; Histamine; Resistance; Hyperreactivity; L-NAME (Friberg, S.G. (547) 143)

Compound 48/80

Rat mast cell protease; Mucosal mast cell; Connective tissue mast cell; Airway (Liu, S. (530) 128)

Compound action potential

Lamotrigine; Levetiracetam; Ion channel; Delayed depolarization; Antiepileptic drug (Guyen, M. (553) 129)

Conditioned fear

Selective serotonin reuptake inhibitor; Selective noradrenaline reuptake inhibitor; Noradrenaline; Serotonin; Anxiety disorder (Inoue, T. (540) 91)

Conditioned fear stress

In vivo microdialysis; Li₂CO₃; Serotonin; Noradrenaline; Clorgyline (Kitaichi, Y. (532) 236)

Conditioned fear stress (CFS)

Citalopram; Serotonin; Anxiolytic; Selective serotonin reuptake inhibitor (SSRI); c-Fos (Izumi, T. (534) 129)

Conditioned place preference

Opioid; Nicotine; β -endorphin; Dipeptide; Pro-opiomelanocortin (Göktalay, G. (530) 95)

Conditioned taste aversion

Nicotine; Ethanol; Blood ethanol levels; (Rat) (Korkosz, A. (537) 99)

Confocal microscopy

Schizophrenia; Glutamate; Antipsychotic (Jordan, S. (540) 53)

Congestive heart failure

Cell hypertrophy; KR-31378; Myocardial infarction; ATP-sensitive potassium channel (Hwang, G.S. (540) 131)

Conjugated linoleic acid

Conjugated nonadecadienoic acid; Isomer; Cyclooxygenase; Platelet aggregation (Li, G. (545) 93)

Conjugated nonadecadienoic acid

Conjugated linoleic acid; Isomer; Cyclooxygenase; Platelet aggregation (Li, G. (545) 93)

Connective tissue mast cell

Compound 48/80; Rat mast cell protease; Mucosal mast cell; Airway (Liu, S. (530) 128)

 α -Conotoxin AulB

18-Methoxycoronaridine; Mecamylamine; Morphine; Medial habenula; Interpeduncular nucleus; Nicotine receptors; Drug addiction (Glick, S.D. (537) 94)

Conscious dog

Ranolazine; Long-acting nitrate; Sildenafil; Blood pressure; Heart rate (Zhao, G. (541) 171)

Constitutive activity

Adenylyl cyclase; Inverse agonist; Splice variant; Resensitization (Krobert, K.A. (532) 1)

Contact dermatitis

Olopatadine hydrochloride; *c-Fos*; Substance P; Eczematous lesion (Hamada, R. (547) 45)

Contextual fear conditioning

Fluoxetine; Desipramine; Panic; Serotonin (Santos, J.M. (542) 121)

Contractility

Apelin; Heart failure; Excitation–contraction coupling; Ca^{2+} responsiveness (Dai, T. (553) 222)

Contraction

Airway hyperresponsiveness; Airway smooth muscle; Allergy; Asthma; Ovalbumin; Passive sensitization; Rho-kinase; Y-27632; (Guinea pig) (Schaafsma, D. (531) 145)

Endothelin; ET_B (endothelin type B); Receptor; ERK1/2 (extracellular regulation kinase 1 and 2); Calcium (Luo, G. (538) 124)

2-APB; Signal transduction; Cell signaling; Calcium channel blocker; Fura-2; Myosin light chain phosphorylation (Ratz, P.H. (541) 177)

Testicular capsule; Adrenoceptor; Neurotransmission; PCR (polymerase chain reaction); Smooth muscle (Jurkiewicz, N.H. (543) 141)

Neuropeptide Y; 5-HT; Endothelium; Coronary artery; TXA_2 (Tsurumaki, T. (544) 111)

Airway; Azithromycin; Macrolide; Smooth muscle; Trachea (Daenas, C. (553) 280)

Contraction study

Ghrelin receptor antagonist; 5-HT receptor (Depoortere, I. (537) 160)

Conventional whole-cell configuration

ATP-sensitive K^+ channels; Cytosolic extract; Glibenclamide-sensitivity; Nystatin-perforated patch recording (Teramoto, N. (531) 34)

Convulsion

Cocaine; σ receptor; Locomotor activity (Daniels, A. (542) 61)

Norfloracin; Biphenylacetic acid; Interleukin-1 β ; (Rats) (Zhang, L.-r. (543) 21)

COPD

Glucocorticoid; Adrenergic beta-agonist; Asthma (Sin, D.D. (533) 28)

Asthma; Inhibitor; MAP kinase; IKK; Gene expression (Adcock, I.M. (533) 118)

COPD (chronic obstructive pulmonary disease)

Glucocorticoid receptor; Transcription factor; Histone deacetylase; Histone acetyltransferase; Nuclear factor- κB ; Inflammation; Asthma; Corticosteroid resistance (Barnes, P.J. (533) 2)

COPD (Chronic Obstructive Pulmonary disease)

Muscarinic receptor; Antimuscarinic agent; Asthma; Ipratropium; Tiotropium (Gross, N.J. (533) 36)

COPD (Chronic Obstructive Pulmonary Diseases)

Nitric oxide; Oxidant; Peroxynitrite; Nitrosative stress; Asthma (Ricciardolo, F.L.M. (533) 240)

Copper

Aorta; Homocysteine; Nitric oxide; Superoxide; NADPH oxidase (Shukla, N. (531) 201)

Cordycepin

Cordyceps militaris; Macrophage; Inflammation; NO production; Lipopolysaccharide (LPS) (Kim, H.G. (545) 192)

Cordyceps militaris

Cordycepin; Macrophage; Inflammation; NO production; Lipopolysaccharide (LPS) (Kim, H.G. (545) 192)

Coronary artery

Neuropeptide Y; 5-HT; Endothelium; Coronary artery; TXA_2 (Tsurumaki, T. (544) 111)

Salvianolic acid B; Danshen; *Salvia miltiorrhiza*; Calcium channel (Lam, F.F.Y. (553) 240)

Coronary blood flow

Coronary vasodilator reserve; Myocardial ischemia; Vasoconstrictor prostanoid; Nitric oxide (Climent, B. (530) 234)

Coronary disease

Cytokine; Infarction; Stem cell; Restenosis (Li, Y. (549) 98)

Coronary flow

CGRP (calcitonin gene-related peptide); Ischemia/reperfusion; Left ventricular pressure; Infarct size; Cardioprotection (Chai, W. (531) 246)

Coronary perfusion flow

Mitiglinide; Sulfonylureas; K_{ATP} channel; Ischemia-reperfusion; Cardiac function (Maruyama, I. (531) 194)

Coronary vasodilator reserve

Coronary blood flow; Myocardial ischemia; Vasoconstrictor prostanoid; Nitric oxide (Climent, B. (530) 234)

Corpus cavernosum

Erectile dysfunction; Hydrogen sulphide; Intracavernous pressure; Primate; (Rat) (Srilatha, B. (535) 280)

Insulin; Relaxation; Prostacyclin; Ca^{2+} channel (Myung, S.C. (536) 142)

Calpain; Diabetes; Endothelium; Erectile dysfunction; Neuropathy; Nitric oxide; Smooth muscle (Nangle, M.R. (538) 148)

Sildenafil; Tadalafil; Vardenafil; Signal transduction (Lau, L.-C. (541) 184)

Cannabinoid; Anandamide; NANC (nonadrenergic noncholinergic) relaxation; NO (nitric oxide); (Rat) (Ghasemi, M. (544) 138)

Cortical culture

Acetylcholinesterase; Alzheimer's disease; Glutamate; Nicotinic acetylcholine receptor; Neurotoxicity (Takada-Takatori, Y. (549) 19)

Cortical neurons

Ischemia; Excitotoxicity; Glutamate receptors; Cytoplasmic calcium; MAPK [mitogen-activated protein kinase]; Swelling (Franceschini, D. (553) 18)

Corticosteroid

Hypothalamus–pituitary–adrenal axis; Corticotropin-releasing hormone; Adrenocorticotropin; Neonatal programming; Pro-opiomelanocortin antisense (Galietta, G. (550) 180)

Corticosteroid resistance

Glucocorticoid receptor; Transcription factor; Histone deacetylase; Histone acetyltransferase; Nuclear factor- κ B; Inflammation; Asthma; COPD (chronic obstructive pulmonary disease) (Barnes, P.J. (533) 2)

Corticosteroids

p-Glycoprotein; Breast cancer resistance protein; BCRP; Calcein accumulation; ATPase activity (Cooray, H.C. (531) 25)

Corticosterone

Cannabinoid; CB_1 receptor; Plasma; Rodent (Wade, M.R. (551) 162)

Corticotropin-releasing hormone

Hypothalamus–pituitary–adrenal axis; Adrenocorticotropin; Corticosteroid; Neonatal programming; Pro-opiomelanocortin antisense (Galietta, G. (550) 180)

Cough

Transient receptor potential vanilloid 1; Asthma exacerbation; Acidic media (Geppetti, P. (533) 207)

Cough reflex

Histamine; Histamine H_1 receptor; ATP; Ionotropic purinergic receptor; Rapidly adapting receptor (Kamei, J. (547) 160)

COX

Glioma; Proliferation; NSAID; Indomethacin (Bernardi, A. (532) 214)

COX-1/COX-2-dependent TxA_2

Cardiovascular ischemia; Licofelone; Leukocyte activation (Rotondo, S. (546) 95)

COX-2

CIAA; Celecoxib; Rofecoxib; Peripheral (Okumura, T. (539) 125)

COX-2 (cyclooxygenase-2)

iNOS (inducible nitric oxide synthase); eNOS (endothelial nitric oxide synthase); *N*-(3-(aminomethyl)benzyl)acetamidine (1400W); L-NAME (*N*^G-nitro-L-arginine methyl ester); NF- κ B (nuclear transcription factor κ B) (Guo, J.S. (536) 301)

CP 55940

Noradrenergic neurons; WIN 55212-2; Cannabinoid CB_1 receptors; Single-unit extracellular recordings; Slice; In vivo (Mendiguren, A. (534) 83)

CP 94253

5-HT_{1B} receptor; RU 24969; *p*-Chlorophenylalanine; Maximal electroshock; Pentylenetetrazol-induced seizure; (Mice) (Wesołowska, A. (541) 57)

CpG motif

Allergy; Asthma; Bacterial extract; Hygiene hypothesis; Lipopolysaccharide; Mycobacteria; Probiotics; T helper cell; Toll-like receptors; T regulatory cells (Feleszko, W. (533) 308)

cPLA₂ α

Hydrogen peroxide; Src; Protein kinase C; Murine L929 cells (Taniguchi, T. (546) 1)

CREB phosphorylation

Opioid dependence; IRAS; Imidazoline I_1 receptor; Agmatine; Intracellular Ca^{2+} concentration; ERK phosphorylation; c-Fos expression (Wu, N. (548) 21)

c-Rel

Nuclear factor-kappaB; Neurodegeneration; Cell death; Amyloid beta; p65 (Pizzi, M. (545) 22)

CRE-SEAP reporter gene

Dopamine D_1 receptor; Adenosine A_1 receptor; Modulation (Cao, Y. (548) 29)

Crocetin

Angiotensin II; Smooth muscle cell; Proliferation; Extracellular signal-regulated kinases 1/2; Mitogen-activated protein kinases (Zhou, C.-H. (535) 61)

Crocin

Hypertriglyceridemia; Hypercholesterolemia; Pancreatic lipase; (Rat) (Sheng, L. (543) 116)

Cross-tolerance

γ -hydroxybutyrate (GHB); Flunitrazepam; Baclofen; Rotorod; Motor performance (Smith, M.A. (552) 83)

Cryptotanshinone

Cyclooxygenase-2; Prostaglandin E_2 ; Reactive oxygen species (Jin, D.-Z. (549) 166)

Curcumin

Polyphenol; Osteoblasts; p21; Proliferation; Mineralization (Notoya, M. (534) 55)

Diabetic neuropathic pain; Hyperalgesia; Nitric oxide; TNF- α ; Streptozotocin (Sharma, S. (536) 256)

Amyloid synthesis; Green tea; Blueberries; Resveratrol; Ginkgo biloba extract EGb 761 (Ramassamy, C. (545) 51)

Cyamemazine

Antipsychotic; *h*ERG; Phenothiazine; Arrhythmia; QT prolongation; Guinea pig (Crumb, W. (532) 270)

Cyclase-coupled

Dopamine D_1 -like receptor; Dopamine D_1 -like receptor; Non-cyclase-coupled; Dopamine D_1 -like/ D_2 -like receptor interaction; Jaw movement; Orofacial movement; SK&F 83822; SK&F 83959; (Rat) (Fujita, S. (538) 94)

Cyclic adenosine monophosphate

Eosinophil; Signal transduction; Protein kinase; Reactive oxygen species; Human; Phorbol myristate acetate (Ezeamuzie, C.I. (543) 174)

3',5'-cyclic adenosine monophosphate (cyclic AMP)

Radix puerariae; Puerarin; Vascular relaxation (Yeung, D.K.Y. (552) 105)

Cyclic AMP

PC-09; Platelet aggregation; Thromboxane B₂; Glycoprotein IIb/IIIa (Cherng, S.-C. (532) 32)

Adenylate cyclase; G protein-coupled receptor; Kinase; Signaling (Beazely, M.A. (535) 1)

Dorsal root ganglion cell; Prostanoid EP receptor; Prostacyclin receptor; Prostaglandin E₂; Rho-kinase (Wise, H. (535) 69)

Adrenoceptor; Epinephrine; Isoproterenol; Triacylglycerol; VLDL (Rasouli, M. (545) 109)

Cyclic GMP

Human pulmonary artery; Sildenafil; Nitric oxide (Mauricio, M.D. (530) 259)

Thyrotoxicosis; Cardiac myocyte shortening; Ca²⁺ transients; Ryanodine receptor (Zhang, Q. (537) 45)

Cardiac function; Endothelium; Hypertension; Phosphodiesterase (Ferreira-Melo, S.E. (542) 141)

Cyclic nucleotide gated channel

Prostaglandin E₂; Endothelial cell; L-*cis*-diltiazem; Thapsigargin; Dibutyryl cAMP; 8-bromo-cGMP (Shalom, R. (543) 8)

Cyclic phosphatidic acid

Respiration; Vagus; Carotid sinus nerve; Intravenous administration (Hotta, H. (543) 27)

Cyclic-AMP responsive element-binding protein

Metabotropic glutamate receptor subtype 5; Extracellular signal-regulated protein kinase; *N*-methyl D-aspartate receptor; *N*-{4-chloro-2-[(1,3-dioxo-1,3-dihydro-2^H-isindol-2-yl)-methyl]phenyl}-2-hydrobenzamide (Liu, F. (536) 262)

Cyclin

Prostaglandin E₂; Cell proliferation; Cell cycle; cAMP (Sanchez, T. (529) 16)

Cyclohexenonic long-chain fatty alcohol

Diabetes; Neuropathy; Muscarinic M₂ receptor; Muscarinic M₃ receptor; mRNA (Shinbori, C. (545) 177)

Cycloheximide

Sarafotoxin 6c; Actinomycin D; Vasoconstriction (Eskesen, K. (539) 192)

Cyclo-oxygenase

Pulmonary circulation; Heart failure; Histopathology; Angiogenesis (van Albada, M.E. (549) 107)

Cyclooxygenase

Dihydrocucurbitacin B; Adjuvant-induced arthritis; Nitric oxide synthase; Tumor necrosis factor- α ; Interleukin-1 β (Escandell, J.M. (532) 145)

Aspirin hypersensitivity; Non-steroid anti-inflammatory drug; Cysteinyl leukotriene; Lipoxin (Szczechlik, A. (533) 145)

Diabetes; Arachidonic acid derivatives; Endothelin-1; Endothelin ET_A and ET_B receptors; Endothelium; NO (nitric oxide); Renal artery (Marrachelli, V.G. (534) 178)

Lipopolysaccharide; Prostaglandin; Nitric oxide synthase; Uterus (Cella, M. (534) 218)

Naproxen; Rofecoxib; Oxidative stress; Immobilization stress (Dhir, A. (535) 192)

Cinnamaldehyde; Rat cerebral microvascular endothelial cell; Interleukin-1 β ; Prostaglandin E₂; Real-time RT-PCR (Guo, J.-Y. (537) 174)

Diabetes; L-NAME; Kidney; (Rat) (Chen, Y.-J. (541) 80)

Fever; Nimesulide; Indomethacin (Werner, M.F.P. (543) 181)

Conjugated linoleic acid; Conjugated nonadecadienoic acid; Isomer; Platelet aggregation (Li, G. (545) 93)

Pulmonary circulation; Heart failure; Histopathology; Angiogenesis (van Albada, M.E. (549) 107)

Acetaminophen; Prostaglandins (Censarek, P. (551) 50)

Cyclooxygenase inhibitor

Stomach; Gastric; Mucous epithelial cell; Indomethacin; Non-steroidal anti-inflammatory drug (Kavvada, K.M. (549) 41)

Alzheimer's disease; Antioxidant; Cognitive impairment; Colchicine; Oxidative stress (Kumar, A. (551) 58)

(Cyclooxygenase knockout mice)

Paracetamol; Diclofenac; Aminopyrine; Prostaglandin; Cyclooxygenase-3; Writhing (Ayoub, S.S. (538) 57)

Cyclooxygenase-1

Histamine; Thromboxane A₂; Catecholamines; Adrenal medulla (Shimizu, T. (541) 152)

Nonsteroidal anti-inflammatory drugs; Small intestine; Indomethacin; Cyclooxygenase-2 (Menozzi, A. (552) 143)

Cyclooxygenase-1 (COX-1)

Prostacyclin (PGI₂); Adriamycin; Renal tubular cell; Apoptosis; Prostacyclin synthase (PGIS) (Chen, C.-H. (529) 8)

Cyclooxygenase-2

Lipopolysaccharide; Nitric oxide; Mitogen-activated kinase phosphatase-1; Signal transduction; RAW 264.7 macrophage; Anti-inflammatory effect (Chen, T.-H. (541) 138)

Aluminum overload; Meloxicam; Impairment of learning and memory function; Neuronal death; Amyloid beta; Choline acetyltransferase; Malondialdehyde (Jun-Qing, Y. (547) 52)

Cryptotanshinone; Prostaglandin E₂; Reactive oxygen species (Jin, D.-Z. (549) 166)

Nonsteroidal anti-inflammatory drugs; Small intestine; Indomethacin; Cyclooxygenase-1 (Menozzi, A. (552) 143)

Cyclooxygenase-3

Paracetamol; Diclofenac; Aminopyrine; Prostaglandin; Writhing; (Cyclooxygenase knockout mice) (Ayoub, S.S. (538) 57)

Cyclooxygenase-inhibitor

Mesenteric traction; Prostaglandin; Hemodynamics; Oxygenation (Bucher, M. (536) 296)

Cyclophosphamide

Hyperlipidemia; Serum; Heart; Lipoic acid (Mythili, Y. (543) 92)

Cyclosporine

Phosphodiesterase 7A; Phosphodiesterase 4; Th-cell; Neutrophil; Immunosuppressant; YM-393059 (Yamamoto, S. (550) 166)

CYP2E1

Phenobarbital; Chlorzoxazone; Brain; Protein induction; (Monkey) (Lee, A.M. (552) 151)

Cyproheptadine

Tachykinin NK₁ receptor antagonist; L-732,138; Substance P; Antigen; Sensitization; EEG (Electroencephalogram) spike; Olfactory bulb; Olopatadine; Epinastine (Rahman, M.A. (532) 155)

[Cys(Acm)^{2,7}]-h-αCGRP

BIBN4096BS; h-αCalcitonin gene-related peptide (h-αCGRP); h-αCGRP₈₋₃₇; [Cys(Et)^{2,7}]-h-αCGRP; CGRP receptor; Human coronary artery (Gupta, S. (530) 107)

[Cys(Et)^{2,7}]-h-αCGRP

BIBN4096BS; h-αCalcitonin gene-related peptide (h-αCGRP); h-αCGRP₈₋₃₇; [Cys(Acm)^{2,7}]-h-αCGRP; CGRP receptor; Human coronary artery (Gupta, S. (530) 107)

Cystathionine

Doxorubicin; Ehrlich tumor; Liver; Thiol; Toxicity (Kwiecień, I. (550) 39)

Cysteinyl leukotriene

Aspirin hypersensitivity; Cyclooxygenase; Non-steroid anti-inflammatory drug; Lipoxin (Szczeklik, A. (533) 145)

Arthritis; Mast cell; TNF-α (Shiota, N. (548) 158)

Cystinyl aminopeptidase

Angiotensin IV; Angiotensin AT₄ receptor; Aminopeptidase N (Demaegdt, H. (546) 19)

Cytochrome c

Digitalis; Growth cell; Apoptosis (Ramirez-Ortega, M. (534) 71)

Cytochrome c

Secretory phospholipase A₂; Apoptosis; Caspase; Poly (ADP-ribose) polymerase; TNF-α (Lee, C. (536) 47)

Lithium; Valproate; Cytotoxicity; Bcl-2; Caspase-3; Bipolar disorder (Lai, J.S. (539) 18)

Cytochrome P450

Deltamethrin; Gestation; Expression; Behavioral activity; (Rat) (Johri, A. (544) 58)

Cytochrome P450 3A (CYP3A)

Lipopolysaccharide (LPS); Pregnane X receptor; Retinoid X receptor; Erythromycin *N*-demethylase (ERND); Intestine (Xu, D.-X. (536) 162)

Cytochrome P450 isozyme

Vitamin C; Vitamin E; Cecal ligation and puncture; Oxidative stress (Kim, J.-Y. (534) 202)

Cytokine

Acyclic nucleosidephosphonate; Chemokine; Adenosine receptor (Kmoníčková, E. (530) 179)

Melanocortin; Chemokine; Inflammation; Myocardial ischaemia (Getting, S.J. (532) 138)

Matrix metalloproteinase; Tissue inhibitor of MMP; Asthma; Growth factors (Gueders, M.M. (533) 133)

VIP; Lung; Tachykinin (Groneberg, D.A. (533) 182)

Asthma; Chronic obstructive pulmonary disease; Chemokine; Chemokine receptor (Yamagata, T. (533) 289)

Acyclic nucleotide analogues; HPMPA (9-[2-Hydroxy-3-(phosphonmethoxy)propyl]adenine); Immunostimulation; Nitric oxide (Potměšil, P. (540) 191)

Coronary disease; Infarction; Stem cell; Restenosis (Li, Y. (549) 98)

Cytokines

Phosphodiesterase-4; PDE4D; Ciclamilast; Dexamethasone; Inflammation; Goblet cell; Airways hyperresponsiveness; Asthma (Deng, Y.-m. (547) 125)

Cytoplasmic calcium

Cortical neurons; Ischemia; Excitotoxicity; Glutamate receptors; MAPK [mitogen-activated protein kinase]; Swelling (Franceschini, D. (553) 18)

Cytoprotection

Mangiferin; Polyphenols; Iron; Superoxide scavenging (Pardo-Andreu, G.L. (547) 31)

Preconditioning; Depolarization; Veratridine; Chromaffin cell (Orozco, C. (553) 28)

Cytoskeleton

Protease-activated receptor2 (PAR2); Lung epithelial cell; Neutrophil adhesion; Rho (Yagi, Y. (536) 19)

Statin; Chemotaxis; Adhesion molecule; Endothelial cell; Monocyte (Pozo, M. (548) 53)

Cytosolic ATP

Cell volume; GSH (glutathione); Apoptosis; Phosphatidylserine; Calcium (Akel, A. (532) 11)

Cytosolic calcium

Noradrenaline; Acetylcholine; Artery; Heart failure; Infarction (Trautner, S. (537) 143)

Cytosolic extract

ATP-sensitive K⁺ channels; Conventional whole-cell configuration; Glibenclamide-sensitivity; Nystatin-perforated patch recording (Teramoto, N. (531) 34)

Cytotoxic activity

Apoptosis; Flavonoids; Caspases; DNA fragmentation; poly(ADP-ribose) polymerase (Rubio, S. (548) 9)

Cytotoxicity

Lithium; Valproate; Cytochrome c; Bcl-2; Caspase-3; Bipolar disorder (Lai, J.S. (539) 18)

DA (Dark Agouti) rat

Paw edema; β-endorphin; Granulocytes; Phagocytosis; NO (nitric oxide) production; μ, δ, κ opioid receptors; AO (Albino Oxford) rat (Stanojević, S. (549) 157)

D_{2S}

Antipsychotic; Schizophrenia; 5-HT_{1A}; Extracellular signal-regulated kinase (Bruins Slot, L.A. (534) 63)

Daidzein

Antioxidant; Equol; Glutathion; Prooxidant (Jeong Choi, E. (542) 162)

D-Amino acid oxidase

Anesthetics; Ketamine; NMDA receptor; Schizophrenia; Serine racemase (Takeyama, K. (540) 82)

Danshen

Salvianolic acid B; *Salvia miltiorrhiza*; Calcium channel; Coronary artery (Lam, F.F.Y. (553) 240)

Decavanadate

Vanadium; Vanadate; ATP; P2X receptor (Michel, A.D. (534) 19)

Defecation

Emesis; Defecation; Ferret; NK₁; 5-HT₃ (Kan, K.K.W. (544) 153)

Dehydroascorbic acid

Vitamin C; Oxidative stress; Oxidant; Shear stress; ATP; Anion channels (Davis, K.A. (548) 36)

Delayed depolarization

Lidocaine; Tramadol; Nerve injury; Slow sodium currents; Hyperpolarizing afterpotential (Mert, T. (543) 54)

Lamotrigine; Levetiracetam; Ion channel; Compound action potential; Anti-epileptic drug (Guyen, M. (553) 129)

Delayed hypersensitivity

T-lymphocyte; Lymphocyte function-associated antigen-1; Cell adhesion molecule; Receptor antagonist (Panzenbeck, M.J. (534) 233)

Delayed outward rectifier

Dofetilide; Potassium; Ischemia–reperfusion; (Guinea-pig) (Ducroq, J. (532) 279)

Delayed rectifier K⁺ channel

14-Benzoyltalatisamine; Channel blocker; Drug discovery; Tetraethylammonium; Virtual screening (Song, M.-K. (531) 47)

Delayed-type hypersensitivity

Cathepsin S; Antagonist (Desai, S.N. (538) 168)

Deltamethrin

Gestation; Cytochrome P450; Expression; Behavioral activity; (Rat) (Johri, D. (544) 58)

Delta opioid

SNC-80; Nitric oxide; Hypothermia; L-NAME (Rawls, S.M. (536) 109)

Delta opioid receptor agonist

SNC80; Cocaine self-administration; (Rhesus monkey) (Do Carmo, G.P. (547) 92)

Dendritic cell

Sesquiterpene; Th1 response; Cholera toxin; Th2 response (Takei, M. (537) 190)

Dendritic cells

IL-12; Cannabinoids; Vanilloid receptor; 2-arachidonoylglycerol (Lu, T. (532) 170)

Deoxycorticosterone acetate (DOCA)-salt hypertension

NADPH oxidase; gp91phox; Superoxide (Fujii, A. (552) 131)

Deoxygalactonojirimycin

P-glycoprotein; Bioavailability; Glycolipid; Drug transport; Glucosylceramide synthase inhibitor (Norris-Cervetto, E. (530) 195)

Deoxyglucose

[Lys⁷]dermorphin; Cerebral metabolism; Analgesia (Pontieri, F.E. (544) 17)

Dependence

Aminoguanidine; NO (Nitric oxide); Tolerance (Abdel-Zaher, A.O. (540) 60)

Ileum; Guinea pig; Tolerance; Morphine; Lithium (Alborzi, A. (545) 123)

Depolarization

Preconditioning; Cytoprotection; Veratridine; Chromaffin cell (Orozco, C. (553) 28)

Depression

Adrenergic receptor; SSRI (Selective Serotonin Reuptake Inhibitor); Microdialysis (Beyer, C.E. (539) 164)

MCH-1 receptor antagonists; Anxiety; (Rat); (Mouse) (Basso, A.M. (540) 115)

Dermatitis

2,4,6-trinitro-1-chlorobenzene; Rolipram; Phosphodiesterase 4 (Harada, D. (532) 128)

Dermorphin

Tyr-D-Arg-Phe-sarcosine; Antinociception; Spinal cord; μ -Opioid receptor; (Mouse) (Mizoguchi, H. (540) 67)

Descending inhibition

α_2 -adrenoceptor; Atipamezole; 5-HT_{1A} receptor; Neuropathic pain; WAY-100635 (Wei, H. (535) 157)

α_2 -Adrenoceptor; Atipamezole; Locus coeruleus; Neuropathic pain; Noradrenergic antinociception (Wei, H. (551) 41)

Desferrioxamine

Iron (III); 1-Methyl-4-phenylpyridinium ion (MPP⁺); Hydroxyl radical; Parkinson's disease (Obata, T. (539) 34)

Desipramine

Contextual fear conditioning; Fluoxetine; Panic; Serotonin (Santos, J.M. (542) 121)

Desloratadine

Histamine H₁ receptor; Antihistamine; Binding; Levocetirizine; Fexofenadine (Gillard, M. (530) 205)

Detrusor smooth muscle

Potassium channel opener; Smooth muscle relaxation; ATP-sensitive potassium channels; Sulfonyleurea receptor; Outlet obstruction; Overactive bladder (Milicic, I. (532) 107)

Development

Cholinergic; Purinergic; Rho-kinase; cGMP (Ekman, M. (532) 99)

Dexamethasone

Otitis media with effusion; Fluid absorption; Middle ear; Na⁺/H⁺ exchanger (Choi, J.Y. (536) 12)

Leomycin; Inflammation; Pulmonary fibrosis (Chen, F. (536) 287)

Allergic dermatitis; Hapten; Mouse; Scratching behavior; Immunoglobulin E; Interferon- γ ; Interleukin-4; Interleukin-5; Tacrolimus (Inagaki, N. (546) 189)

Phosphodiesterase-4; PDE4D; Ciclamilast; Inflammation; Cytokines; Goblet cell; Airways hyperresponsiveness; Asthma (Deng, Y.-m. (547) 125)

Lymphatic regeneration; Acetylsalicylic acid; Micronized purified flavonoid fraction; Inflammation (Greco, K.V. (551) 131)

Oral mucositis; Polaprezinc; Azulene; 5-fluorouracil (Mitsuhashi, H. (551) 152)

Dexfenfluramine

Chronic hypoxia; Pulmonary hypertension; Valvulopathy; Imaging; (Rat) (Rocheffort, G.Y. (550) 149)

Dextran

Angiotensin II; Edema; Mast cell; Carrageenan (Carvalho, R.F. (540) 175)

Dextromethorphan

Dextromethorphan analog; $\alpha_3\beta_4$ nicotinic acetylcholine receptor; *Xenopus* oocyte (Lee, J.-H. (536) 85)

Anaesthesia; Dextrorphan; Local anaesthetic; 3-methoxymorphinan; Sciatic nerve (Hou, C.-H. (544) 10)

Dextromethorphan analog

Dextromethorphan; $\alpha_3\beta_4$ nicotinic acetylcholine receptor; *Xenopus* oocyte (Lee, J.-H. (536) 85)

Dextrorphan

Anaesthesia; Dextromethorphan; Local anaesthetic; 3-methoxymorphinan; Sciatic nerve (Hou, C.-H. (544) 10)

Diabetes

Beta-3 adrenoceptor; SR58611A; Wound healing; (Mice) (Schaeffer, P. (529) 172)

Methylamine; Alpha-aminoguanidine; Hyperphagia; $K_v1.6$ potassium channel; Semicarbazide-sensitive benzylamine oxidase activity (Cioni, L. (529) 179)

Benfotiamine; Inflammatory pain; Neuropathy (Sánchez-Ramírez, G.M. (530) 48)

Arachidonic acid derivatives; Cyclooxygenase; Endothelin-1; Endothelin ET_A and ET_B receptors; Endothelium; NO (nitric oxide); Renal artery (Marrachelli, V.G. (534) 178)

Neuropathy; Neurotrophic factor; Nerve growth factor; Peripheral nerve (Calcutt, N.A. (534) 187)

Oxycodone; κ -Opioid receptors; Hyperalgesia; Antinociception (Nozaki, C. (535) 145)

Rat mesenteric bed; Endothelium; Streptozotocin; Lovastatin; Chelerythrine (Fatehi-Hassanabad, Z. (535) 228)

Melatonin; Vitamin E; Learning; Memory (Tuzcu, M. (537) 106)

Calpain; Corpus cavernosum; Endothelium; Erectile dysfunction; Neuropathy; Nitric oxide; Smooth muscle (Nangle, M.R. (538) 148)

Cyclooxygenase; L-NAME; Kidney; (Rat) (Chen, Y.-J. (541) 80)

N-hexacosanol; Nephropathy; Malonaldehyde; TGF- β_1 (transforming growth factor beta-1); PKC (protein kinase C) (Saito, M. (544) 132)

Neuropathy; Muscarinic M_2 receptor; Muscarinic M_3 receptor; mRNA; Cyclohexenonic long-chain fatty alcohol (Shinbori, C. (545) 177)

Metformin; Dipeptidyl peptidase IV; Incretin hormone; Insulin (Green, B.D. (547) 192)

Renal injury; Hyperglycemia; Hyperlipidemia; Lipid peroxide (Yoshida, M. (548) 174)

Peroxisome proliferator-activated receptors; Angiotensin converting enzyme (Toba, H. (549) 124)

Allergy; Aldose reductase; Mast cells (Carvalho, V.F. (549) 173)

Diabetes mellitus

Metformin; Osteoblast; Osteoporosis (Cortizo, A.M. (536) 38)

NO-1886; Inflammatory cytokine; Atherosclerosis (Cai, M. (540) 139)

Ginsenoside Re; *Panax ginseng*; Antihyperglycemia; Antihyperlipidemia; Antioxidant (Cho, W.C.S. (550) 173)

Diabetic heart

Endothelin antagonist; VEGF (Jesmin, S. (541) 122)

Diabetic nephropathy

Insulin resistance; Peroxisome proliferator-activated receptor γ ; YM440; Zucker fatty rat; Hyperlipidemia (Nakano, R. (549) 185)

Emodin; Renal dysfunction; p38 mitogen-activated protein kinase (Wang, J. (553) 297)

Diabetic neuropathic pain

Hyperalgesia; Curcumin; Nitric oxide; TNF- α ; Streptozotocin (Sharma, S. (536) 256)

Diabetic neuropathy

Allodynia; Hyperalgesia; Anticonvulsant drug; Neuropathic pain; Lacosamide (Beyreuther, B. (539) 64)

Diabetes

Oxidative stress; N-acetylcysteine; Myocardial dysfunction (Xia, Z. (544) 118)

Diadenosine polyphosphate

A549 cell; Arachidonic acid; Ca^{2+} mobilization; iNOS (inducible nitric oxide synthase) (Laubinger, W. (543) 1)

Diadenosine tetrphosphate

Melatonin; Dinucleotides; Melatonin receptor; P2Y receptor; Tear secretion (Hoyle, C.H.V. (552) 159)

Dialysis

Simvastatin; Sister chromatid exchange; Genomic damage; Atherosclerosis (Pernice, F. (532) 223)

Diarrhea

Morphine; ATP-dependent K^+ channel; Jumping; (Mouse) (Zarrindast, M.-R. (552) 90)

Diazepam

8-OH-DPAT; Ovariectomy; Anxiety; Menopause; Burying behaviour (Picazo, O. (530) 88)

Anxiety; Nociception; Antinociception; Yohimbine; Acetylsalicylic acid (Jiménez-Velázquez, G. (547) 83)

Peripheral-type benzodiazepine receptor; Cancer; Ehrlich tumor; Ro5-4864; Proliferation (Sakai, M. (550) 8)

Diazoxide

Gabapentin; Neuropathic pain; Nitric oxide; Guanylyl cyclase; Protein kinase G; K^+ channel opener; Pinacidil (Mixcoatl-Zecuatl, T. (531) 87)

Dibutyl cAMP

Prostaglandin E_2 ; Endothelial cell; L-*cis*-diltiazem; Thapsigargin; 8-bromo-cGMP; Cyclic nucleotide gated channel (Shalom, R. (543) 8)

Diclofenac

Paracetamol; Aminopyrine; Prostaglandin; Cyclooxygenase-3; Writting; (Cyclooxygenase knockout mice) (Ayoub, S.S. (538) 57)

Diesel exhaust particle

3-methyl-4-nitrophenol; Anti-androgenic activity; Recombinant yeast screen assay; Hersherberger assay (Li, C. (543) 194)

Dietary supplement

N-nitrosufenfluramine; Fenfluramine; Appetite suppressant; Mitochondrial permeability transition; Mitochondrial dysfunction; Hepatonecrosis (Nakagawa, Y. (529) 33)

Differentiation

Apoptosis; Histone deacetylase inhibitor; Leukemia; Transcription factors (Savickiene, J. (549) 9)

3,3-difluorobenzaldazine

Allosteric enhancer; mGlu5; Seven-transmembrane-domain (Mühlemann, A. (529) 95)

DIGE

Ethanol; Proteomics; (Zebrafish) (Damodaran, S. (547) 75)

Digitalis

Growth cell; Apoptosis; Cytochrome *c* (Ramirez-Ortega, M. (534) 71)

Dihydrocucurbitacin B

Adjuvant-induced arthritis; Nitric oxide synthase; Cyclooxygenase; Tumor necrosis factor- α ; Interleukin-1 β (Escandell, J.M. (532) 145)

Dihydrodaidzein

Phytoestrogen; Atherosclerosis; Restenosis after angioplasty; Vascular smooth muscle cell proliferation (Shen, J. (548) 123)

Dihydrofolate reductase

Methotrexate; Drug resistance; Gene mutation; Gene therapy (Affleck, J.G. (529) 71)

Dihydropyridine

Angiotensin converting enzyme inhibitor; Endothelial cell; High glucose; Nitric oxide; Superoxide (Rosenkranz, A.C. (529) 55)

1,4-Dihydropyridine

Antioxidants; Lipid peroxidation; Malondialdehyde; 4-Hydroxynonenal; Hepatoprotection (Borovic, S. (537) 12)

2,4-Dinitrophenyl-S-glutathione

Multidrug resistance-associated protein 2; CCl₄-induced acute hepatic failure; Hyperbilirubinemia; Intestinal efflux (Yokooji, T. (546) 152)

Dinucleotides

Melatonin; Diadenosine tetraphosphate; Melatonin receptor; P2Y receptor; Tear secretion (Hoyle, C.H.V. (552) 159)

Dioxin

Aryl-hydrocarbon receptor; 3-Methylcholanthrene; Polycyclic aromatic hydrocarbons; Angiogenesis (Juan, S.-H. (530) 1)

Dipeptide

Opioid; Nicotine; β -endorphin; Pro-opiomelanocortin; Conditioned place preference (Göktalay, G. (530) 95)

Dipeptidyl peptidase 8

Dipeptidyl peptidase-IV; Dipeptidyl peptidase 9; Glucagon-like Peptide-1; Insulin (Yasuda, N. (548) 181)

Dipeptidyl peptidase 9

Dipeptidyl peptidase-IV; Dipeptidyl peptidase 8; Glucagon-like Peptide-1; Insulin (Yasuda, N. (548) 181)

Dipeptidyl peptidase IV

Metformin; Diabetes; Incretin hormone; Insulin (Green, B.D. (547) 192)

Dipeptidyl peptidase-IV

Dipeptidyl peptidase 8; Dipeptidyl peptidase 9; Glucagon-like Peptide-1; Insulin (Yasuda, N. (548) 181)

Diphenzoline

Morphine analgesia modulation; I₂-IBS (I₂-imidazoline binding sites); I₂-IBS ligands; Phenyzoline (Gentili, F. (553) 73)

Direct hemoperfusion using polymyxin B immobilized column

Hydrochloric acid-induced lung injury; Anandamide; Growth-related oncogene/cytokine-induced neutrophils chemoattractant-1; Neutrophil recruitment (Tsushima, K. (535) 270)

Discriminative stimulus

Alcohol; Drug discrimination; Ethanol intake; Metabotropic glutamate receptors; Self-administration (Besheer, J. (551) 71)

Diterpenoids

Andrographis paniculata; Inhibition; Aggregation; Thrombin; ERK1/2 (Thisoda, P. (553) 39)

Dizocilpine

Mood stabilizers; Valproate; Carbamazepine; Lithium; Prepulse inhibition; Apomorphine (Umeda, K. (553) 157)

Dizocilpine maleate

NMDA receptor antagonist; Locomotion; Immobility; Catalepsy; Haloperidol (Tang, Y. (537) 77)

DL-AP5

NMDA; MK-801; Physostigmine; Passive avoidance learning; Retention; Basolateral amygdala; (Rats) (Jafari-Sabet, M. (529) 122)

DNA fragmentation

Apoptosis; Flavonoids; Cytotoxic activity; Caspases; poly(ADP-ribose) polymerase (Rubio, S. (548) 9)

Dofetilide

Potassium; Ischemia-reperfusion; Delayed outward rectifier; (Guinea-pig) (Ducroq, J. (532) 279)

(Dog)

5-HT₃ receptor; 5-HT₃ receptor agonist; 5-HT₃ receptor receptor antagonist; 5-HT_{3A}; (Canine) (Jensen, T.N. (538) 23)

DOI

EMD 281014; 5-HT_{2A} receptor; 5-HT_{2C} receptor; GABA; LDT/PPT nuclei; REM sleep; SB-243213; Serotonin; Slow wave sleep; Waking; (Rat) (Monti, J.M. (553) 163)

Domperidone

Pain; Dopamine; Apomorphine; (*S*)-(–)-sulpiride; Tail-flick; Paw pressure; Formalin (Pelissier, T. (546) 40)

Donepezil

Acetylcholinesterase inhibitor; Glutamate excitotoxicity; LDH release; Intracellular calcium concentration; Primary cultured cerebral cortical neurons (Akasofu, S. (530) 215)

DOPA

Dopamine; Release; Cocaine; Methamphetamine; Nicotine; Behavior; Nucleus accumbens; Microdialysis (Izawa, J.-i. (549) 84)

Dopamine

Chronic nicotine; Motor activity; Nucleus accumbens; Dorsal striatum (Tammimäki, A. (531) 118)

Appetite; Anorexia; A-77636; Food intake; Meal pattern; Obesity (Cooper, S.J. (532) 253)

Nucleus accumbens shell and core; SB-277011-A (Roberts, C. (534) 108)

Clozapine; Olanzapine; Limited access alcohol drinking; Atypical antipsychotic drug; Selectively bred rat line (Ingman, K. (534) 133)

Antidepressant; Imipramine; Mania; Motor activity; Quinpirole; Valproate (D'Aquila, P.S. (535) 208)

Excitotoxic lesion; Neurotensin; Prefrontal cortex; Striatum (Radja, F. (539) 158)

Methamphetamine; Edaravone; Microglia; Astrocyte (Kawasaki, T. (542) 92)

3,4-Methylenedioxymethamphetamine; Minocycline; Serotonin; Neurotoxicity; Microglia (Zhang, L. (544) 1)

Pain; Apomorphine; (*S*)-(–)-sulpiride; Domperidone; Tail-flick; Paw pressure; Formalin (Pelissier, T. (546) 40)

Anatoxin-a; Glutamatergic receptor; *In vivo* microdialysis; Nicotinic receptor; Nitric oxide; Striatum (Campos, F. (548) 90)

DOPA; Release; Cocaine; Methamphetamine; Nicotine; Behavior; Nucleus accumbens; Microdialysis (Izawa, J.-i. (549) 84)

Dopamine agonist

Rotigotine; Animal models depression; Parkinson's disease (Bertaina-Anglade, V. (548) 106)

Dopamine D₁ receptor

Adenosine A₁ receptor; Modulation; CRE-SEAP reporter gene (Cao, Y. (548) 29)

6-OHDA-lesioned rat; Priming; Histamine H₃ receptor; Vacuous chewing movement; Catalepsy; Striatum; Microdialysis (Nowak, P. (552) 46)

Dopamine D₁-like receptor

Cyclase-coupled; Dopamine D₁-like receptor; Non-cyclase-coupled; Dopamine D₁-like:D₂-like receptor interaction; Jaw movement; Orofacial movement; SK&F 83822; SK&F 83959; (Rat) (Fujita, S. (538) 94)

Dopamine D₁-like receptor; Cyclase-coupled; Non-cyclase-coupled; Dopamine D₁-like:D₂-like receptor interaction; Jaw movement; Orofacial movement; SK&F 83822; SK&F 83959; (Rat) (Fujita, S. (538) 94)

Dopamine D₁-like:D₂-like receptor interaction

Dopamine D₁-like receptor; Cyclase-coupled; Dopamine D₁-like receptor; Non-cyclase-coupled; Jaw movement; Orofacial movement; SK&F 83822; SK&F 83959; (Rat) (Fujita, S. (538) 94)

Dopamine D₂ receptor

Partial agonist; Antipsychotics; Sf9 cell; Prolactin; (Rat) (Cosi, C. (535) 135)

Aripiprazole; Partial agonism (Wood, M.D. (546) 88)

Aplindore; Chimeric G_{αq/o}-protein; Intracellular calcium flux; ERK-phosphorylation; [³⁵S]GTPγS; Unilaterally 6-hydroxydopamine lesioned rat (Heinrich, J.N. (552) 36)

Dopamine D₂-receptor occupancy

In vivo; Raclopride; Dosage; Olanzapine; Risperidone (Naiker, D.V. (540) 87)

Dopamine D₄ receptor

Polymorphism; Norepinephrine; Epinephrine; [³⁵S]GTPγS; Sodium (Czermak, C. (531) 20)

Dopamine receptor

Nucleus accumbens; Striatum; Amitriptyline; Mirtazapine; Sertraline; RT-PCR (Reverse Transcriptase-Polymerase Chain Reaction) (Huzarska, M. (532) 208)

Dopamine release

σ receptor; Cocaine; Dopamine transporter; Protein kinase C (Nuwayhid, S.J. (535) 98)

Nicotinic acetylcholine receptor; Noradrenaline release; [³H]epibatidine binding; [³H]methyllycaconitine binding; *Xenopus* oocyte (Abin-Carriquiry, J.A. (536) 1)

Dopamine transporter

σ receptor; Cocaine; Dopamine release; Protein kinase C (Nuwayhid, S.J. (535) 98)

Cocaine; Charged amino acid; Mutant; Glutamate (Dar, D.E. (538) 43)

3-Phenyltropane; Locomotor activity; Drug discrimination; Self-administration (Carroll, F.I. (553) 149)

Dorsal raphe nucleus

Perinatal protein malnutrition; Fluoxetine; 5-HT_{1A} receptor; Panic disorder (Sodero, A.O. (532) 230)

Dorsal root ganglion

Neuropathic pain; Sodium channel; Substance P; Nerve injury (Akada, Y. (536) 248)

Olopatadine; Substance P release; Bradykinin; Capsaicin; Transient receptor potential vanilloid 1 (Tang, H.-B. (552) 78)

Dorsal root ganglion cell

Cyclic AMP; Prostanoid EP receptor; Prostacyclin receptor; Prostaglandin E₂; Rho-kinase (Wise, H. (535) 69)

Dorsal striatum

Chronic nicotine; Motor activity; Dopamine; Nucleus accumbens (Tam-mimäki, A. (531) 118)

Dosage

Dopamine D₂-receptor occupancy; *In vivo*; Raclopride; Olanzapine; Risperidone (Naiker, D.V. (540) 87)

Doxorubicin

Cystathionine; Ehrlich tumor; Liver; Thiol; Toxicity (Kwiecień, I. (550) 39)

Drinking behaviour

Cannabinoid; Feeding behaviour; Motor activity; Body weight; (Rat) (Gardner, A. (530) 103)

Drinking conflict test

5-HT₇ receptor antagonist; Forced swimming test; Intrahippocampal injection; (Rat) (Wesołowska, A. (553) 185)

Drug addiction

18-Methoxycoronaridine; α-Conotoxin AulB; Mecamylamine; Morphine; Medial habenula; Interpeduncular nucleus; Nicotine receptors (Glick, S.D. (537) 94)

Drug combination

Vascular smooth muscle; Sirolimus; Isobolographic analysis (Parry, T.J. (532) 38)

Drug dependence

Model; Protein synthesis (Raffa, R.B. (551) 54)

Drug discovery

14-Benzoyltalatisamine; Channel blocker; Delayed rectifier K⁺ channel; Tetraethylammonium; Virtual screening (Song, M.-K. (531) 47)

Drug discrimination

Gamma-hydroxybutyrate; GHB; Baclofen; SKF97541; GABA; Xyrem; Sodium oxybate (Carter, L.P. (538) 85)

Cannabinoid system; Nicotine; Nicotinic acetylcholine receptor; Rat (Zaniewska, M. (540) 96)

Alcohol; Discriminative stimulus; Ethanol intake; Metabotropic glutamate receptors; Self-administration (Besheer, J. (551) 71)

3-Phenyltropine; Locomotor activity; Self-administration; Dopamine transporter (Carroll, F.I. (553) 149)

Drug resistance

Dihydrofolate reductase; Methotrexate; Gene mutation; Gene therapy (Affleck, J.G. (529) 71)

Drug transport

P-glycoprotein; Bioavailability; Deoxygalactonojirimycin; Glycolipid; Glucosylceramide synthase inhibitor (Norris-Cervetto, E. (530) 195)

Drug-induced long QT

Action potential duration; Antibiotics; Early afterdepolarizations; TdP (Torsade de Pointes); Long QT syndrome (Lu, H.R. (553) 229)

DTH

Adenosine deaminase; Adenosine; Anti-inflammatory; TNF- α (Kuno, M. (534) 241)

Dystrophic neurites

Alzheimer's disease; Presynaptic boutons; Amyloid beta protein; Glutamate; GABA; Acetylcholine (Bell, K.F.S. (545) 11)

Ear swelling

Cannabinoid; 2-Arachidonoylglycerol; Cannabinoid receptor agonist; Cannabinoid receptor antagonist; Inflammation (Oka, S. (538) 154)

Early afterdepolarizations

Action potential duration; Antibiotics; Drug-induced long QT; TdP (Torsade de Pointes); Long QT syndrome (Lu, H.R. (553) 229)

Early growth response gene 1

Isoflurane; Preconditioning; Oxygen-glucose deprivation; Extracellular signal-regulated kinase; Bcl-2 (Zuo, Z. (542) 84)

Eczematous lesion

Olopatadine hydrochloride; Contact dermatitis; c-Fos; Substance P (Hamada, R. (547) 45)

Edaravone

Methamphetamine; Microglia; Astrocyte; Dopamine (Kawasaki, T. (542) 92)

Edema

Allergic inflammation; Forced expiratory maneuver; Forced oscillation; FRC (Functional Residual Capacity); FVC (Forced Vital Capacity); IC (Inspiratory Capacity); MMEF (Mean Mid-Expiratory Flow); Cchord; Lung parenchyma; Goblet cell; (Brown–Norway rat) (Celly, C.S. (540) 147)

Angiotensin II; Mast cell; Carrageenan; Dextran (Carvalho, R.F. (540) 175)

Riboflavin; Inflammation; Pain; Nociception; Fever; Fibrovascular tissue (Bertollo, C.M. (547) 184)

EDHF

Nitric oxide; Endothelium; Vasodilation; Nitric oxide synthase; In vivo (Desai, K.M. (546) 120)

EDHF (endothelium-derived hyperpolarizing factor)

Ascorbate; Flow; Flow-dependent vasodilatation; Perfusion pressure; Vasodilatation (Stirrat, A. (534) 152)

EEG (Electroencephalogram) spike

Tachykinin NK₁ receptor antagonist; L-732,138; Substance P; Antigen; Sensitization; Olfactory bulb; Cyproheptadine; Olopatadine; Epinastine (Rahman, M.A. (532) 155)

EEG threshold

Acute tolerance; Neurosteroid; In situ hybridization; Rat brain (Birzniece, V. (535) 125)

Ehrlich tumor

Peripheral-type benzodiazepine receptor; Cancer; Diazepam; Ro5-4864; Proliferation (Sakai, M. (550) 8)

Cystathionine; Doxorubicin; Liver; Thiol; Toxicity (Kwiecień, I. (550) 39)

Elastase release

P2Y₁₄ receptor; Human neutrophil; Adenylyl cyclase (Scrivens, M. (543) 166)

Electrical field stimulation

Mesenteric artery; Neuropeptide Y; Noradrenaline; Acetylcholine; BIBP 3226; (Non-obese diabetic-mice) (Gradin, K.A. (539) 184)

Electrical field stimulation-induced contraction

Alendronate; Lower esophageal sphincter; NO-mediated relaxation (Takeuchi, T. (537) 155)

Electrical remodeling

Atrial fibrillation; Structural remodeling; Amiodarone; Matrix metalloproteinase (Ashikaga, K. (536) 148)

Electroconvulsive stimuli

Adrenocorticotrophic hormone; Forced swim test; Brain-derived neurotrophic factor (Li, B. (529) 114)

Electroconvulsive threshold

2-Phosphonomethyl-pentanedioic acid; Glutamate carboxypeptidase II; Maximal electroshock; Antiepileptic drug; Valproate; Pharmacokinetic interaction (Luszczki, J.J. (531) 66)

Electrode placement

Soman; Seizure; Rocyclidine; Muscimol; Ethanol; Propofol; Aphagia/adipsia; Resistance (Myhrer, T. (548) 83)

Elevated plus-maze

Ginsenoside Rb₁; Ginsenoside Rg₁; Ginsenoside Ro; Anxiolytic action; Male mouse (Carr, M.N. (531) 160)

EMD 281014

DOI; 5-HT_{2A} receptor; 5-HT_{2C} receptor; GABA; LDT/PPT nuclei; REM sleep; SB-243213; Serotonin; Slow wave sleep; Waking; (Rat) (Monti, J.M. (553) 163)

Emesis

Tramadol; 5-HT transporter; 5-HT₃ receptor; Patch clamp; [³H]5-HT uptake (Barann, M. (531) 54)

Prostanoid; Defecation; Ferret; NK₁; 5-HT₃ (Kan, K.K.W. (544) 153)

Emodin

Angiogenesis; Human umbilical cord vein endothelial cells; ERK 1/2 (Kaneshiro, T. (553) 46)

Diabetic nephropathy; Renal dysfunction; p38 mitogen-activated protein kinase (Wang, J. (553) 297)

Enantiomers

Tramadol; Aorta; Vasodilatation; Papillary muscle; Naloxone (Raimundo, J.M. (530) 117)

Endocannabinoid

Fear learning; Memory; Rat; Associative learning (Arenas, J.D. (539) 177)

Endocannabinoids

Anandamide; Fatty-acid ethanolamides; Oleoylethanolamide; Palmitoylethanolamide; Cannabinoid receptors; Rofecoxib; Ibuprofen; Fatty-acid amide hydrolase; Nonsteroidal anti-inflammatory drugs; Capsazepine; Formalin test; Inflammatory pain (Guindon, J. (550) 68)

Endocardial endothelium

Angiotensin II; Endothelin-1; Inotropism; Myocardium (Castro-Chaves, P. (544) 91)

Endogenous inhibitor

Arrhythmia; $\text{Na}^+/\text{Ca}^{2+}$ exchange; KB-R7943 (Shpak, B. (553) 196)

Endogenous opioid

Analgesia; Metamizol; Potentiation; Non-steroidal anti-inflammatory drug (Hernández-Delgadillo, G.P. (546) 54)

Endogenous opioids

Adrenergic hyporesponsiveness; Bile duct ligation; Cholestasis; Clonidine; Nitric oxide; (Rat) (Tavakoli, S. (542) 148)

Endonuclease-prepared small interference

Multidrug resistance; *MDR1*; RNA (esiRNA); Low concentration of esiRNA (Li, L. (536) 93)

End-organ damage

Hypertension; Antihypertensive drug; Blood pressure variability; Baroreflex sensitivity (Xie, H.-H. (543) 77)

 β -endorphin

Opioid; Nicotine; Dipeptide; Pro-opiomelanocortin; Conditioned place preference (Göktalay, G. (530) 95)

Paw edema; Granulocytes; Phagocytosis; NO (nitric oxide) production; μ , δ , κ opioid receptors; AO (Albino Oxford) rat; DA (Dark Agouti) rat (Stanojević, S. (549) 157)

Endothelial cell

Angiotensin converting enzyme inhibitor; Dihydropyridine; High glucose; Nitric oxide; Superoxide (Rosenkranz, A.C. (529) 55)

Melatonin; Inflammation; Vascular permeability; Neutrophil (Lotufo, C.M.C. (534) 258)

Superoxide; NADPH oxidase [nicotinamide adenine dinucleotide phosphate oxidase]; Pulmonary artery (Muzaffar, S. (538) 108)

Prostaglandin E_2 ; *L-cis*-diltiazem; Thapsigargin; Dibutyl cAMP; 8-bromo-cGMP; Cyclic nucleotide gated channel (Shalom, R. (543) 8)

Adhesion molecule; Calcium channel blocker; 7-Ketocholesterol; Reactive oxygen species (Naito, Y. (546) 11)

Isorhamnetin; Lectin-like low-density lipoprotein receptor; Oxidized low-density lipoprotein; p38MAPK (Bao, M. (547) 22)

Statin; Chemotaxis; Adhesion molecule; Cytoskeleton; Monocyte (Pozo, M. (548) 53)

4-*O*-methylgallic acid; ICAM-1; VCAM-1; NF- κ B (Lee, G. (551) 143)

Endothelial dysfunction

Folic acid; Endothelium; Tetrahydrobiopterin (Moat, S.J. (530) 250)

Homocysteine; Folic acid (Clarke, Z.L. (551) 92)

db/db mice; Small mesenteric artery; Endothelium-derived hyperpolarizing factor; Potassium channels; Epoxyeicosotrienoic acid (Pannirselvam, M. (551) 98)

Endothelial nitric oxide synthase

Norepinephrine; RhoA; Vascular endothelial growth factor; Extracellular signal-related kinase; Mitogenic effect; Human umbilical vein endothelial cells (Seya, Y. (553) 54)

Endothelin

ET_B (endothelin type B); Receptor; ERK1/2 (extracellular regulation kinase 1 and 2); Calcium; Contraction (Luo, G. (538) 124)

Bone formation; Selective ET_A receptor antagonist (Someya, A. (543) 14)

IRL1620 {Suc-[Glu⁹,Ala¹¹,Ala¹⁵]ET-1-(8–21)}; BMS182874 (5-(dimethylamino)-*N*-(3,4-dimethyl-5-isoxazolyd)-1-Naphthalenesulfonamide); Morphine; Analgesia; Gastrointestinal transit; Central nervous system; (Mice) (Matwyszyn, G.A. (543) 48)

Endothelin antagonist

VEGF; Diabetic heart (Jesmin, S. (541) 122)

Endothelin ET_A and ET_B receptors

Diabetes; Arachidonic acid derivatives; Cyclooxygenase; Endothelin-1; Endothelium; NO (nitric oxide); Renal artery (Marrachelli, V.G. (534) 178)

Endothelin-1

Diabetes; Arachidonic acid derivatives; Cyclooxygenase; Endothelin ET_A and ET_B receptors; Endothelium; NO (nitric oxide); Renal artery (Marrachelli, V.G. (534) 178)

Angiotensin II; Endocardial endothelium; Inotropism; Myocardium (Castro-Chaves, P. (544) 91)

Endothelium

Folic acid; Tetrahydrobiopterin; Endothelial dysfunction (Moat, S.J. (530) 250)

Aging; Hypoxia; Reoxygenation; Cariporide; Vasorelaxation (Besse, S. (531) 187)

Diabetes; Arachidonic acid derivatives; Cyclooxygenase; Endothelin-1; Endothelin ET_A and ET_B receptors; NO (nitric oxide); Renal artery (Marrachelli, V.G. (534) 178)

Diabetes; Rat mesenteric bed; Streptozotocin; Lovastatin; Chelerythrine (Fatehi-Hassanabad, Z. (535) 228)

Pentoxifylline; Carboxylated metabolite; TNF- α ; Macrophage; ABC transporter (Fantin, M. (535) 301)

Butyridenephthalide; *Ligusticum chuanxiong*; Smooth muscle relaxation; Calcium (Chan, S.S.-K. (537) 111)

Calpain; Corpus cavernosum; Diabetes; Erectile dysfunction; Neuropathy; Nitric oxide; Smooth muscle (Nangle, M.R. (538) 148)

Cardiac function; Cyclic GMP; Hypertension; Phosphodiesterase (Ferreira-Melo, S.E. (542) 141)

Neuropeptide Y; 5-HT; Coronary artery; Contraction; TXA₂ (Tsurumaki, T. (544) 111)

Ca²⁺ channels; p38 MAPK (p38 mitogen-activated protein kinase); Porcine coronary arteries; Raloxifene; Vasorelaxation (Moritz, A. (545) 153)

Nitric oxide; EDHF; Vasodilation; Nitric oxide synthase; In vivo (Desai, K.M. (546) 120)

α1-Adrenoceptor subtype; Nitric Oxide (Mendez, E. (546) 127)

Histamine; Myogenic tone; K_v potassium channels; Rat cerebral artery (Jarajapu, Y.P.R. (547) 116)

Endothelium-dependent relaxation

Acetylcholine; Aorta; +*db/db* mice; Caveolin-1 (Lam, T.Y. (546) 134)

Endothelium-derived hyperpolarising factor

Angiotensin II; Cerebral artery; Vasodilatation (Wackenfors, A. (531) 259)

Endothelium-derived hyperpolarizing factor

Calcium-activated K⁺ channel; cAMP; Mesenteric artery; Type 2 diabetes; (Rat) (Matsumoto, T. (538) 132)

Endothelial dysfunction; *db/db* mice; Small mesenteric artery; Potassium channels; Epoxyeicosotrienoic acid (Pannirselvam, M. (551) 98)

Endotoxemia

N-Allylsecoboldine; Acute renal failure; Nitric oxide synthase; α₁-adrenoceptor antagonist; Tumor necrosis factor-α (Chiao, C.-W. (535) 291)

Energy metabolism

Ibogaine; Addiction; Glycolysis; Tricarboxylic acid cycle; Proteomics; Rat brain (Paškulin, R. (552) 11)

Enhanced antinociception

Cannabinoid; Opioid; Synergy (Williams, I.J. (539) 57)

eNOS (endothelial nitric oxide synthase)

iNOS (inducible nitric oxide synthase); COX-2 (cyclooxygenase-2); *N*-(3-(aminomethyl)benzyl)acetamide (1400W); L-NAME (*N*^G-nitro-L-arginine methyl ester); NF-κB (nuclear transcription factor κB) (Guo, J.S. (536) 301)

Eosinophil

SCF (stem cell factor); Kit; Inflammation; Kit; Mast cell; Asthma (Reber, L. (533) 327)

Enteric inhibitory neurotransmission

P2Y receptor; Calcium store; Calcium-dependent potassium channel; Mouse colon; Intracellular microelectrode recording (Zizzo, M.G. (544) 174)

Enteric nervous system

Purinergic receptor; ATP; Intestine; Secretion (Fang, X. (536) 113)

Intimin; Type III secretion system; Mucosa-adherent bacterium; Norepinephrine; Cocaine (Chen, C. (539) 116)

Entero-hepatic circulation

Hyperthyroidism; Montmorillonite; Thyroid hormone (Cai, Y. (551) 156)

Enterohepatic circulation

Apical sodium-dependent bile acid transporter; Hypocholesterolemic agent; Monkey; Hamster; Cholesterol (Kitayama, K. (539) 89)

Enzymatic antioxidant

Cisplatin; Lipid peroxidation; Hepatotoxicity (Pratibha, R. (532) 290)

Eosinophil

Chymase; Mast cell; IL-8/MIP-2; Neutrophil (Terakawa, M. (538) 175)

Cyclic adenosine monophosphate; Signal transduction; Protein kinase; Reactive oxygen species; Human; Phorbol myristate acetate (Ezeamuzie, C.I. (543) 174)

[³H] epibatidine binding

Nicotinic acetylcholine receptor; Dopamine release; Noradrenaline release; [³H]methyllycaconitine binding; *Xenopus* oocyte (Abin-Carriquiry, J.A. (536) 1)

(–)-Epigallocatechin gallate

γ-Aminobutyric acid receptor; Brain; Intracerebroventricular injection; (Chick) (Adachi, N. (531) 171)

(–)-Epigallocatechin-3-gallate

Oxygen free radical; Streptozotocin; Glucose; Insulin (Yun, S.-Y. (541) 115)

Epilepsy

Kynurenic acid; Kynurenine aminotransferase; Antiepileptic drug; In vitro; Brain (Kocki, T. (541) 147)

P-glycoprotein; Pharmacoresistance; Multidrug transporter; Pharmacogenetics (Baars, C. (550) 54)

Felbamate; GABA_A receptor; Anticonvulsant; Subunit selectivity (Simeone, T.A. (552) 31)

Epileptogenesis

Kindling; AMPA receptor antagonists; YM872; (Rat) (Hara, H. (531) 59)

Epinastine

Tachykinin NK₁ receptor antagonist; L-732,138; Substance P; Antigen; Sensitization; EEG (Electroencephalogram) spike; Olfactory bulb; Cyproheptadine; Olopatadine (Rahman, M.A. (532) 155)

Epinephrine

Dopamine D4 receptor; Polymorphism; Norepinephrine; [³⁵S]GTPγS; Sodium (Czernak, C. (531) 20)

Adrenoceptor; Cyclic AMP; Isoproterenol; Triacylglycerol; VLDL (Rasouli, M. (545) 109)

Levofloxacin; Hyperglycemia; Hypoglycemia; Histamine; (Rat) (Ishiwata, Y. (551) 168)

Epithelial thickness and cell proliferation

(R)-α-methylhistamine; Histamine H₃ receptor; Gastrointestinal mucosa; (Rat) (Grandi, D. (538) 141)

Epoxyeicosotrienoic acid

Endothelial dysfunction; *db/db* mice; Small mesenteric artery; Endothelium-derived hyperpolarizing factor; Potassium channels (Pannirselvam, M. (551) 98)

Equol

Antioxidant; Daidzein; Glutathion; Prooxidant (Jeong Choi, E. (542) 162)

Erectile dysfunction

Hydrogen sulphide; Intracavernous pressure; Corpus cavernosum; Primate; (Rat) (Srilatha, B. (535) 280)

Calpain; Corpus cavernosum; Diabetes; Endothelium; Neuropathy; Nitric oxide; Smooth muscle (Nangle, M.R. (538) 148)

ERK

Thromboxane A₂ receptor; G₁₂ family G protein; Rho; Proliferation (Honma, S. (545) 100)

ERK 1/2

Emodin; Angiogenesis; Human umbilical cord vein endothelial cells (Kaneshiro, T. (553) 46)

ERK (Extracellular signal-regulated kinase)

Leptin; 2-aminopurine; STAT3 (Signal transducer and activator of transcription 3); PKR (Double-strand RNA-activated protein kinase); Ob-Rb leptin receptor (Hosoi, T. (553) 61)

ERK phosphorylation

Opioid dependence; IRAS; Imidazoline I₁ receptor; Agmatine; Intracellular Ca²⁺ concentration; CREB phosphorylation; c-Fos expression (Wu, N. (548) 21)

ERK1/2

Andrographis paniculata; Diterpenoids; Inhibition; Aggregation; Thrombin (Thisoda, P. (553) 39)

ERK1/2 (extracellular regulation kinase 1 and 2)

Endothelin; ET_B (endothelin type B); Receptor; Calcium; Contraction (Luo, G. (538) 124)

ERK-phosphorylation

Aplindore; Dopamine D₂ receptor; Chimeric G_{αq/o}-protein; Intracellular calcium flux; [³⁵S]GTPγS; Unilaterally 6-hydroxydopamine lesioned rat (Heinrich, J.N. (552) 36)

Erythroblast

Bone marrow; P2Y₁ receptor; Intracellular calcium; CaMKII; PKC (Paredes-Gamero, E.J. (534) 30)

Erythrocyte

Glutathione reductase; Melatonin (Erat, M. (537) 59)

Erythromycin N-demethylase (ERNM)

Lipopolysaccharide (LPS); Pregnane X receptor; Retinoid X receptor; Cytochrome P450 3A (CYP3A); Intestine (Xu, D.-X. (536) 162)

ESR spectroscopy

Antioxidant effect; Ginsenoside Re; Cardiomyocyte; Ischemia and reperfusion damage; Antimycin A; H₂O₂ (Xie, J.-T. (532) 201)

Estradiol

QT prolongation; HERG; KCNQ1; Patch-clamp (Möller, C. (532) 44)

Morphine; NMDA receptor antagonist; Antinociception; Acute tolerance; Tamoxifen (Shekunova, E.V. (535) 78)

Estrogen receptor

Chemotaxis; 17-β-estradiol; Transforming growth factor-β; Smad proteins; Breast cancer cell (Malek, D. (534) 39)

Progesterone receptor; Neuropathic pain; Allodynia; Hyperalgesia; Nociception (Kondo, D. (541) 44)

Guanylyl cyclase; Tamoxifen; Methylene blue; Pertussis toxin (Alex, A.B. (546) 102)

1-ethyl-2-benzimidazolinone (1-EBIO)

Small-conductance Ca²⁺-activated K⁺ channel (SK channel); Anticonvulsant; Mouse (Anderson, N.J. (546) 48)

5'-N-Ethylcarboxamidoadenosine

T24 cell line; Adenosine A_{2B} receptor; cAMP; Reverse transcriptase-polymerase chain reaction; Fluorometric imaging plate reader (Phelps, P.T. (536) 28)

17-β-estradiol

Chemotaxis; Estrogen receptor; Transforming growth factor-β; Smad proteins; Breast cancer cell (Malek, D. (534) 39)

Estrogen receptor beta

Inflammation; Pain (Leventhal, L. (553) 146)

ET_B (endothelin type B)

Endothelin; Receptor; ERK1/2 (extracellular regulation kinase 1 and 2); Calcium; Contraction (Luo, G. (538) 124)

Ethanol

Nicotine; Conditioned taste aversion; Blood ethanol levels; (Rat) (Korkosz, A. (537) 99)

Proteomics; DIGE; (Zebrafish) (Damodaran, S. (547) 75)

Soman; Seizure; Rocyclidine; Muscimol; Propofol; Aphagia/adipsia; Resistance; Electrode placement (Myhrer, T. (548) 83)

Ethanol intake

Alcohol; Drug discrimination; Discriminative stimulus; Metabotropic glutamate receptors; Self-administration (Besheer, J. (551) 71)

Etomidate

Ketamine; Thiopental; Proconvulsant; Glutamate; Excitatory amino acid transporter type 3; Voltage clamp; *Xenopus* oocyte (Yun, J.-Y. (531) 133)

Excitation–contraction coupling

Apelin; Contractility; Heart failure; Ca²⁺ responsiveness (Dai, T. (553) 222)

Excitatory amino acid transporter type 3

Etomidate; Ketamine; Thiopental; Proconvulsant; Glutamate; Voltage clamp; *Xenopus* oocyte (Yun, J.-Y. (531) 133)

Excitotoxic lesion

Dopamine; Neurotensin; Prefrontal cortex; Striatum (Radja, F. (539) 158)

Excitotoxicity

Honokiol; Magnolol; Oxidative stress; Cerebellar granule cell (Lin, Y.-R. (537) 64)

NMDA receptor; Postsynaptic density (Gardoni, F. (545) 2)

Cortical neurons; Ischemia; Glutamate receptors; Cytoplasmic calcium; MAPK [mitogen-activated protein kinase]; Swelling (Franceschini, D. (553) 18)

Experimental asthma

Pulmonary mechanics; Histamine; Resistance; Compliance; Hyperreactivity; L-NAME (Friberg, S.G. (547) 143)

Experimental diabetes

5-hydroxytryptamine; Nitric oxide; 5-HT_{1A} receptors; Prejunctional inhibition (García, M. (537) 126)

Exposure

Cognition; Antipsychotic; Serum level; (Rat) (Didriksen, M. (542) 108)

Expression

Deltamethrin; Gestation; Cytochrome P450; Behavioral activity; (Rat) (Johri, A. (544) 58)

External carotid vasodilatation

BRL44408; Capsaicin; α-CGRP; Imiloxan; MK912 (Jiménez-Mena, L.R. (543) 68)

Extracellular signal-regulated kinase

Antipsychotic; Schizophrenia; 5-HT_{1A}; D_{2S} (Bruins Slot, L.A. (534) 63)

Cerebral ischemia; Hippocampus; Hepatocyte growth factor (Niimura, M. (535) 114)

Isoflurane; Preconditioning; Oxygen-glucose deprivation; Early growth response gene 1; Bcl-2 (Zuo, Z. (542) 84)

Extracellular signal-regulated kinases 1/2

Angiotensin II; Smooth muscle cell; Proliferation; Mitogen-activated protein kinases; Crocetin (Zhou, C.-H. (535) 61)

Extracellular signal-regulated protein kinase

Metabotropic glutamate receptor subtype 5; Cyclic-AMP responsive element-binding protein; *N*-methyl D-aspartate receptor; *N*-{4-chloro-2-[(1,3-dioxo-1,3-dihydro-2^H-isindol-2-yl)-methyl]phenyl}-2-hydrobenzamide (Liu, F. (536) 262)

Extracellular signal-related kinase

Norepinephrine; RhoA; Endothelial nitric oxide synthase; Vascular endothelial growth factor; Mitogenic effect; Human umbilical vein endothelial cells (Seya, Y. (553) 54)

Factor Xa inhibitor

Anticoagulant; M55551; M55165 (Hosaka, Y. (529) 164)

FAK (focal adhesion kinase)

Genistein; PI-3,4,5-P₃ (dipalmitoyl L- α -phosphatidyl-D-myo-inositol 3,4,5-triphosphate); Myoblast differentiation; PI3-kinase (phosphoinositide 3-kinase); Ca²⁺ influx (Woo, J.H. (529) 84)

Family C of G protein-coupled receptor

Goldfish receptor 5.24; L- α -Amino acid; GPRC6A (Christiansen, B. (536) 98)

Farnesoid X receptor

Platycodin D; Cholesterol lowering; Anti-obesity; ACAT inhibition (Zhao, H.L. (537) 166)

Fas and Fas ligand

Platycodin D; NF- κ B activation; HaCaT cells; Apoptosis; Caspase-3 and 8 (Ahn, K.S. (537) 1)

Fas clustering

Mcl-1 cleavage; Prostanoid; Prostate cancer (Chiang, P.-C. (542) 22)

Fatty acid metabolism

Cardiac hypertrophy; PPAR γ (Edgley, A.J. (538) 195)

Fatty liver

Bifendate; Fenofibrate; Hypercholesterolemia; Triglyceride; Total cholesterol (Pan, S.-Y. (552) 170)

Fatty-acid amide hydrolase

Anandamide; Endocannabinoids; Fatty-acid ethanolamides; Oleoylethanolamide; Palmitoylethanolamide; Cannabinoid receptors; Rofecoxib; Ibuprofen; Nonsteroidal anti-inflammatory drugs; Capsazepine; Formalin test; Inflammatory pain (Guindon, J. (550) 68)

Fatty-acid ethanolamides

Anandamide; Endocannabinoids; Oleoylethanolamide; Palmitoylethanolamide; Cannabinoid receptors; Rofecoxib; Ibuprofen; Fatty-acid amide hydrolase; Nonsteroidal anti-inflammatory drugs; Capsazepine; Formalin test; Inflammatory pain (Guindon, J. (550) 68)

Fear conditioning

Flesinoxan; 5-HT_{1A} receptor agonist; The hippocampus; The amygdala; The medial prefrontal cortex (Li, X. (532) 74)

Fear learning

Memory; Rat; Associative learning; Endocannabinoid (Arenos, J.D. (539) 177)

Feeding behaviour

Cannabinoid; Motor activity; Drinking behaviour; Body weight; (Rat) (Gardner, A. (530) 103)

Felbamate

GABA_A receptor; Epilepsy; Anticonvulsant; Subunit selectivity (Simeone, T.A. (552) 31)

Fenfluramine

N-nitrosofenfluramine; Appetite suppressant; Mitochondrial permeability transition; Mitochondrial dysfunction; Hepatonecrosis; Dietary supplement (Nakagawa, Y. (529) 33)

Fenofibrate

Schisandrin B; Triglyceride; Total cholesterol; Hypertriglyceridemia (Pan, S.-Y. (537) 200)

Bifendate; Hypercholesterolemia; Fatty liver; Triglyceride; Total cholesterol (Pan, S.-Y. (552) 170)

Fenoterol

β_2 -adrenoceptor desensitization; Airway smooth muscle; Protein kinase C; Phorbol 12-myristate 13-acetate; GF 109203X (Boterman, M. (529) 151)

Fentanyl

Morphine; Tramadol; Buprenorphine; Antinociception; Knock-out mice; μ -opioid peptide receptor; α_2 -adrenoceptor (Özdoğan, Ü.K. (529) 105)

Histamine H₃ receptor agonist; Nociception; Plasma extravasation; Synergy (Poveda, R. (541) 53)

Ferret

Prostanoid; Emesis; Defecation; NK₁; 5-HT₃ (Kan, K.W.W. (544) 153)

Ferulic acid

NCX 2057(3-(4-hydroxy-3-methoxyphenyl)-2-propenoic acid 4-(nitrooxy)butyl ester); Nitric oxide; NF- κ B (nuclear factor kappa-B); Inflammation; RAW 264.7 macrophages (Ronchetti, D. (532) 162)

Fever

Nimesulide; Indomethacin; Cyclooxygenase (Werner, M.F.P. (543) 181)

Riboflavin; Inflammation; Pain; Nociception; Edema; Fibrovascular tissue (Bertollo, C.M. (547) 184)

Fexofenadine

Histamine H₁ receptor; Antihistamine; Binding; Levocetirizine; Desloratadine (Gillard, M. (530) 205)

Fibroblast

Superoxide; NADPH oxidase; Neutrophil; Aorta; Aortic valve; HUVEC (human umbilical vein endothelial cell); Perhexiline (Kennedy, J.A. (531) 13)

Aging; Oxidative stress; Glutathione; Gene expression (Braam, B. (542) 154)

Fibrosarcoma cell (WEFI 164)

Opioid (morphine); Opioid receptors (μ , δ , κ); Nitric oxide; Nitric oxide synthase (Sharifabrizi, A. (530) 33)

Fibrovascular tissue

Riboflavin; Inflammation; Pain; Nociception; Edema; Fever (Bertollo, C.M. (547) 184)

Flavonoid

All-*trans* retinal; Carbonyl reductase; Quinone; Pig heart (Shimada, H. (540) 46)

Flavonoid glycosides

Hesperidin; GABA_A; Sedation; Sleep-enhancing action (Fernández, S.P. (539) 168)

Flavonoids

Iron overload; Liver; Baicalin; Quercetin; Oxidation (Zhang, Y. (535) 263)

Apoptosis; Cytotoxic activity; Caspases; DNA fragmentation; poly(ADP-ribose) polymerase (Rubio, S. (548) 9)

Flecainide

Myotonia; Anti-arrhythmia agent; Sodium channel; Patch-clamp technique (Aoike, F. (532) 24)

Flesinoxan

5-HT_{1A} receptor agonist; Fear conditioning; The hippocampus; The amygdala; The medial prefrontal cortex (Li, X. (532) 74)

Flow

Ascorbate; EDHF (endothelium-derived hyperpolarizing factor); Flow-dependent vasodilatation; Perfusion pressure; Vasodilatation (Stirrat, A. (534) 152)

Flow cytometry

Fluorescent probe; Neuropeptide Y; Y₂ receptor; Chimeric G protein; Aequorin; BIIE0246 (Ziemek, R. (551) 10)

Flow-dependent vasodilatation

Ascorbate; EDHF (endothelium-derived hyperpolarizing factor); Flow; Perfusion pressure; Vasodilatation (Stirrat, A. (534) 152)

5-fluorouracil

Oral mucositis; Polaprezinc; Dexamethasone; Azulene (Mitsubishi, H. (551) 152)

5-Fluorouracil

Adenosine A₃ receptor; Granulopoiesis; Myelosuppression; (Mouse) (Hofer, M. (538) 163)

Fluid absorption

Dexamethasone; Otitis media with effusion; Middle ear; Na⁺/H⁺ exchanger (Choi, J.Y. (536) 12)

Flunitrazepam

γ-hydroxybutyrate (GHB); Baclofen; Cross-tolerance; Rotorod; Motor performance (Smith, M.A. (552) 83)

Fluorescence

American ginseng; Berry; Polyphenols; Caffeic acid; Chlorogenic acid; Antioxidant; Oxidant stress; Catalase (Mehendale, S.R. (553) 209)

Fluorescent probe

Neuropeptide Y; Y₂ receptor; Flow cytometry; Chimeric G protein; Aequorin; BIIE0246 (Ziemek, R. (551) 10)

Fluorometric imaging plate reader

T24 cell line; Adenosine A_{2B} receptor; cAMP; 5'-N-Ethylcarboxamidoadenosine; Reverse transcriptase-polymerase chain reaction (Phelps, P.T. (536) 28)

Fluoxetine

Perinatal protein malnutrition; Dorsal raphe nucleus; 5-HT_{1A} receptor; Panic disorder (Sodero, A.O. (532) 230)

Atropine; Hot-plate; Naloxone; Neuropathic pain; Streptozotocin; Tail-immersion (Anjaneyulu, M. (538) 80)

Contextual fear conditioning; Desipramine; Panic; Serotonin (Santos, J.M. (542) 121)

Flurothyl

GABA-benzodiazepine receptor; Amino acid; (Mongolian gerbil) (Hashimoto, Y. (536) 241)

Fluvoxamine

Imipramine; Milnacipran; Carbamazepine; Writhing test; (Mouse) (Aoki, M. (550) 78)

5-HT; Sciatic nerve ligation; Chronic pain; μ-Opioid receptor; δ-Opioid receptor (Nozaki, C. (552) 99)

Folate absorption

Caco-2 cells; High glucose; Reduced Folate Transporter (Martel, F. (551) 19)

Folic acid

Endothelium; Tetrahydrobiopterin; Endothelial dysfunction (Moat, S.J. (530) 250)

Homocysteine; Endothelial dysfunction (Clarke, Z.L. (551) 92)

Food intake

Ghrelin; Gastric growth; Growth hormone; Insulin-like growth factor-1; Body weight gain (Warzecha, Z. (529) 145)

Appetite; Anorexia; A-77636; Dopamine; Meal pattern; Obesity (Cooper, S.J. (532) 253)

SR141716; Hexarelin; Tolerance; Body weight (Rigamonti, A.E. (542) 116)

Opioid receptor antagonist; Knockout mice; Body weight (Zhang, J. (545) 147)

Forced expiratory maneuver

Allergic inflammation; Forced oscillation; Edema; FRC (Functional Residual Capacity); FVC (Forced Vital Capacity); IC (Inspiratory Capacity); MMEF (Mean Mid-Expiratory Flow); Cchord; Lung parenchyma; Goblet cell; (Brown-Norway rat) (Celly, C.S. (540) 147)

Forced oscillation

Allergic inflammation; Forced expiratory maneuver; Edema; FRC (Functional Residual Capacity); FVC (Forced Vital Capacity); IC (Inspiratory Capacity); MMEF (Mean Mid-Expiratory Flow); Cchord; Lung parenchyma; Goblet cell; (Brown-Norway rat) (Celly, C.S. (540) 147)

Forced swim test

Electroconvulsive stimuli; Adrenocorticotrophic hormone; Brain-derived neurotrophic factor (Li, B. (529) 114)

Behavior; RB101; Brain-derived neurotrophic factor; (Rat) (Jutkiewicz, E.M. (531) 151)

Forced swimming

Caffeic acid; Antidepressive-like effect; BDNF; TrkB; (Mice) (Takeda, H. (534) 115)

Forced swimming test

5-HT₇ receptor antagonist; Drinking conflict test; Intrahippocampal injection; (Rat) (Wesołowska, A. (553) 185)

Forebrain ischemia

Thymoquinone; Oxidative stress; Hippocampal damage (Al-Majed, A.A. (543) 40)

Formalin

Prostaglandin; Glutamate; GABA; Mouse (Oliva, P. (530) 40)

Pain; Dopamine; Apomorphine; (S)-(–)-sulpiride; Domperidone; Tail-flick; Paw pressure (Pelissier, T. (546) 40)

Formalin test

Nitric oxide; Indomethacin; MK-801; L-NAME; Hyperalgesia (Tassorelli, C. (534) 103)

Somatostatin; Anti-nociceptive effect; Adjuvant-induced inflammation; Traumatic mononeuropathy (Sándor, K. (539) 71)

Anandamide; Endocannabinoids; Fatty-acid ethanolamides; Oleoylethanolamide; Palmitoylethanolamide; Cannabinoid receptors; Rofecoxib; Ibuprofen; Fatty-acid amide hydrolase; Nonsteroidal anti-inflammatory drugs; Capsazepine; Inflammatory pain (Guindon, J. (550) 68)

Formoterol

BRL 37344; Preterm labor; cAMP; cGMP; (Rat) (Yurtcu, N. (530) 263)

BRL 37344; Iris sphincter; Ciliary muscle; cAMP; cGMP; Relaxation (Topalkara, A. (548) 144)

Formylpeptide

Human neutrophil; Chemotaxis; Superoxide anion release; Protein kinase C; MAP kinase (Selvatici, R. (534) 1)

Fos

Psychostimulant; Hypocretin; Immunohistochemistry; Nicotinic receptor; Rat (Pasumarthi, R.K. (535) 172)

FR173657

Bradykinin; B₂ receptor; Peristalsis; Ileum; Icatibant (Hoe 140) (Chan, S.K. (539) 108)

FRC (Functional Residual Capacity)

Allergic inflammation; Forced expiratory maneuver; Forced oscillation; Edema; FVC (Forced Vital Capacity); IC (Inspiratory Capacity); MMEF (Mean Mid-Expiratory Flow); Cchord; Lung parenchyma; Goblet cell; (Brown–Norway rat) (Celly, C.S. (540) 147)

Fritillariae

Alkaloids; Anticholinergic activity; cAMP; [Ca²⁺]_i (Lin, B.-Q. (551) 125)

Fura-2

2-APB; Signal transduction; Cell signaling; Calcium channel blocker; Myosin light chain phosphorylation; Contraction (Ratz, P.H. (541) 177)

Furnidipine

Ischemia and re-perfusion; Arrhythmias; Cardio-protection; (Rat) (Krzemiński, T.F. (549) 91)

FVC (Forced Vital Capacity)

Allergic inflammation; Forced expiratory maneuver; Forced oscillation; Edema; FRC (Functional Residual Capacity); IC (Inspiratory Capacity); MMEF (Mean Mid-Expiratory Flow); Cchord; Lung parenchyma; Goblet cell; (Brown–Norway rat) (Celly, C.S. (540) 147)

G protein

Thrombin inhibitor; Mast cell; Histamine release; Basic secretagogue; Azaphenylalanine scaffold (Štampelj, M. (538) 182)

G protein coupled receptor

Airway remodeling; Asthma; PDGF (Platelet-derived growth factor); TGF-β (Transforming growth factor-β) (Gosens, R. (535) 253)

Lipid raft; SB269970; Serotonin; 5-HT₇ receptor; Cholesterol (Sjögren, B. (552) 1)

G protein-coupled receptor

Adenylate cyclase; Cyclic AMP; Kinase; Signaling (Beazely, M.A. (535) 1)

G₁₂ family G protein

Thromboxane A₂ receptor; Rho; Proliferation; ERK (Honma, S. (545) 100)

G₁-phase block

Apoptosis; Colon cancer; Ibuprofen (Janssen, A. (540) 24)

Gα protein signalling

GLP-2 receptor; Intestinal growth; RT-PCR; Western blot; cAMP (Sams, A. (532) 18)

GABA

Prostaglandin; Formalin; Glutamate; Mouse (Oliva, P. (530) 40)
Cocaine; Sensitization; Microdialysis; Motor activity; Glutamate (Jayaram, P. (531) 74)

Morphine; Glutamate; Withdrawal; Spinal (Dunbar, S.A. (535) 152)

Gamma-hydroxybutyrate; GHB; Baclofen; SKF97541; Xyrem; Sodium oxybate; Drug discrimination (Carter, L.P. (538) 85)

Adenosine; Nitric oxide; Hippocampus (Fragata, I.R. (543) 32)

Alzheimer's disease; Presynaptic boutons; Amyloid beta protein; Dystrophic neurites; Glutamate; Acetylcholine (Bell, K.F.S. (545) 11)

Betaine/GABA transporter; Osteoblast; [³H]GABA accumulation (Fujimori, S. (550) 24)

DOI; EMD 281014; 5-HT_{2A} receptor; 5-HT_{2C} receptor; LDT/PPT nuclei; REM sleep; SB-243213; Serotonin; Slow wave sleep; Waking; (Rat) (Monti, J.M. (553) 163)

GABA accumulation

GABA; Betaine/GABA transporter; Osteoblast (Fujimori, S. (550) 24)

GABA neurotransmission

Cocaine; Locomotor activation; Behavioral sensitization; (Rat) (Filip, M. (541) 163)

GABA_A

Flavonoid glycosides; Hesperidin; Sedation; Sleep-enhancing action (Fernández, S.P. (539) 168)

δ-subunit; Knockout mouse; THIP (Boehm, S.L. (541) 158)

GABA_A receptor

Neurosteroid; α₁-subunit; α₅-subunit; *Xenopus* oocyte (Rahman, M. (547) 37)

α5 subunit; Benzodiazepine; RY-080; Proconvulsant; In vivo binding (Atack, J.R. (548) 77)

GABA_A receptor

5-HT_{1A} receptor; GABA_A receptor; Strain differences; Knockout; Body temperature; Stress-induced hyperthermia; Genetic background; 5-HT₇ receptor; (Mouse) (Van Bogaert, M. (550) 84)

Felbamate; Epilepsy; Anticonvulsant; Subunit selectivity (Simeone, T.A. (552) 31)

Antinociceptive effect; Methyleugenol; NMDA receptor (Yano, S. (553) 99)

GABA_A receptors

IPSC; Substantia gelatinosa; Propofol; Midazolam; Patch clamp; (Mouse) (Takahashi, A. (553) 120)

GABA_B (γ-aminobutyric acid_B) receptor

Baclofen; Alcohol deprivation effect; Relapse-like drinking; sP (Sardinian alcohol-preferring) rats (Colombo, G. (550) 123)

GABA_B receptor

CGP35348; Atypical absence seizure; Cognitive deficit; Radial arm maze (Chan, K.F.Y. (541) 64)

GABA-benzodiazepine receptor

Flurothyl; Amino acid; (Mongolian gerbil) (Hashimoto, Y. (536) 241)

Gabapentin

Neuropathic pain; Nitric oxide; Guanylyl cyclase; Protein kinase G; K⁺ channel opener; Diazoxide; Pinacidil (Mixcoatl-Zecuatl, T. (531) 87)

5-S-GAD

Angiogenesis; Antiangiogenic agent; Tumor therapy (Nishikawa, T. (539) 151)

D-galactosamine

Bicyclol; Acute hepatic failure; Lipopolysaccharide (Wang, H. (534) 194)

Galantamine

K_{Ca}2 channels; Catecholamines; Chromaffin cell; Apamin (Alés, E. (548) 45)

Gallbladder

Rho-kinase; Ca²⁺ sensitisation; Y-27632 (Quinn, T. (534) 210)

Gamma-hydroxybutyrate

GHB; Baclofen; SKF97541; GABA; Xyrem; Sodium oxybate; Drug discrimination (Carter, L.P. (538) 85)

Gap junction

Morphine; Antinociception (Suzuki, M. (535) 169)

Gα_{q/11} inhibitor

Peripheral arterial disease; Platelet aggregation; Vasodilation; Local administration (Uemura, T. (536) 154)

Gastric

Stomach; Mucous epithelial cell; Indomethacin; Non-steroidal anti-inflammatory drug; Cyclooxygenase inhibitor (Kavvada, K.M. (549) 41)

Gastric acid secretion

NO (nitric oxide) donor; Gastrin (Shibata, N. (535) 25)

Gastric blood flow

Ghrelin; Ischemia–reperfusion; Nitric oxide; Calcitonin gene related peptide; Angiogenesis; Hypoxia inducible factor-1 alpha (Konturek, P.C. (536) 171)

Gastric damage

Indomethacin; ATP-sensitive potassium channels; Lipopolysaccharide (Gomes, A.S. (547) 136)

Gastric growth

Ghrelin; Growth hormone; Insulin-like growth factor-1; Food intake; Body weight gain (Warzecha, Z. (529) 145)

Gastric relaxation

Mouse stomach; Photodegradable nitric oxide store; Localisation; Superoxide dismutase (Ögülener, N. (548) 137)

Gastric ulcer

Gaultherin; NSAIDs (non-steroidal anti-inflammatory drugs); Aspirin; Salicylate (Zhang, B. (530) 166)

Gastrin

Gastric acid secretion; NO (nitric oxide) donor (Shibata, N. (535) 25)

Gastrointestinal disorders

Tachykinins; Neurokinin A; NK₂ receptor antagonist; Oral activity; Colon contraction; Bronchoconstriction (Cialdai, C. (549) 140)

Gastrointestinal mucosa

(R)-α-methylhistamine; Histamine H₃ receptor; Epithelial thickness and cell proliferation; (Rat) (Grandi, D. (538) 141)

Gastrointestinal transit

IRL1620 {Suc-[Glu⁹,Ala¹¹,Ala¹⁵]ET-1-(8–21)]}; BMS182874 (5-(dimethylamino)-N-(3,4-dimethyl-5-isoxazolyd)-1-Naphthalenesulfonamide); Morphine; Analgesia; Central nervous system; Endothelin; (Mice) (Matwyshyn, G.A. (543) 48)

7-Hydroxymitragynine; Antinociception; μ-Opioid receptor; Morphine (Matsumoto, K. (549) 63)

Gatifloxacin

Hypoglycemia; Hyperglycemia; Insulin secretion; Islet insulin content; K_{ATP} (ATP-sensitive K⁺) channel (Yamada, C. (553) 67)

Gaultherin

NSAIDs (non-steroidal anti-inflammatory drugs); Aspirin; Salicylate; Gastric ulcer (Zhang, B. (530) 166)

GEA3162

Neutrophil; Thiol oxidation; Store-operated Ca²⁺ entry; Protein tyrosine phosphorylation; Actin reorganization (Hsu, M.-F. (535) 43)

Guanylin; Human colon; L-N^G-nitroarginine methyl ester; Nicardipine; Serotonin release (Kojima, S.-i. (550) 162)

Gender difference

Statin; NADPH-dependent superoxide production; Vasoprotection (Kurumazuka, D. (553) 263)

Gene expression

Asthma; COPD; Inhibitor; MAP kinase; IKK (Adcock, I.M. (533) 118)

Aging; Oxidative stress; Glutathione; Fibroblast (Braam, B. (542) 154)

Isoflurane; Nitrous oxide; Anesthesia; Hippocampus; (Rat) (Culley, D.J.. (549) 71)

Gene mutation

Dihydrofolate reductase; Methotrexate; Drug resistance; Gene therapy (Affleck, J.G. (529) 71)

Gene therapy

Dihydrofolate reductase; Methotrexate; Drug resistance; Gene mutation (Affleck, J.G. (529) 71)

Genetic background

Body temperature; Stress-induced hyperthermia; GABAA receptor; 5-HT₇ receptor; (Mouse) (Van Bogaert, M. (550) 84)

Genetic polymorphism

β-adrenoceptor; Airway; Bronchodilatation; Mucociliary clearance; Inflammation; Stereoisomerism (Broadley, K.J. (533) 15)

Genistein

PI-3,4,5-P₃ (dipalmitoyl L-α-phosphatidyl-D-myo-inositol 3,4,5-triphosphate); Myoblast differentiation; FAK (focal adhesion kinase); PI3-kinase (phosphoinositide 3-kinase); Ca²⁺ influx (Woo, J.H. (529) 84)

CFTR (cystic fibrosis transmembrane conductance regulator); NKCC1; Smooth muscle; (Rat) (Valero, M.S. (544) 128)

Genomic damage

Simvastatin; Sister chromatid exchange; Atherosclerosis; Dialysis (Pernice, F. (532) 223)

Genomic effect

Glucocorticoid; Glucocorticoid-induced leucine zipper (GILZ); Apoptosis; Thymocyte; Non-genomic effect (Bruscoli, S. (529) 63)

Gestation

Deltamethrin; Cytochrome P450; Expression; Behavioral activity; (Rat) (Johri, A. (544) 49)

Gerbil

Cerebral ischemia; Histamine; Histamine H₃ receptor; L-Histidine; Hypothermia; Thioperamide (Adachi, N. (546) 69)

GF 109203X

β₂-adrenoceptor desensitization; Airway smooth muscle; Protein kinase C; Fenoterol; Phorbol 12-myristate 13-acetate (Boterman, M. (529) 151)

GH (growth hormone)

TNF (tumor necrosis factor); PEG-sTNFRI (polyethylene glycol linked to soluble TNF receptor p55); IGF-I (insulin-like growth factor-I); Arthritis; Adjuvant-induced (Granado, M. (536) 204)

GHB

Gamma-hydroxybutyrate; Baclofen; SKF97541; GABA; Xyrem; Sodium oxybate; Drug discrimination (Carter, L.P. (538) 85)

Ghrelin

Gastric growth; Growth hormone; Insulin-like growth factor-I; Food intake; Body weight gain (Warzecha, Z. (529) 145)

Ischemia–reperfusion; Nitric oxide; Calcitonin gene related peptide; Gastric blood flow; Angiogenesis; Hypoxia inducible factor-1 alpha (Konturek, P.C. (536) 171)

Cholinergic; Tachykininergic; Nitrergic; Stomach; (Rat) (Bassil, A.K. (544) 146)

Ghrelin receptor antagonist

5-HT receptor; Contraction study (Depoortere, I. (537) 160)

Gingerol

Shogaol; 5-HT₃ receptor (Abdel-Aziz, H. (530) 136)

Ginkgo biloba extract EGb 761

Amyloid synthesis; Green tea; Curcumin; Blueberries; Resveratrol (Ramassamy, C. (545) 51)

Ginseng

Ginsenoside Rh₂; (R)- or (S)-stereoisomer; NMDA; Polyamine-binding site; Patch-clamp (Lee, E. (536) 69)

Ginsenoside Rb₁

Ginsenoside Rg₁; Ginsenoside Ro; Anxiolytic action; Elevated plus-maze; Male mouse (Carr, M.N. (531) 160)

Ginsenoside Re

Antioxidant effect; ESR spectroscopy; Cardiomyocyte; Ischemia and reperfusion damage; Antimycin A; H₂O₂ (Xie, J.-T. (532) 201)

Diabetes mellitus; *Panax ginseng*; Antihyperglycemia; Antihyperlipidemia; Antioxidant (Cho, W.C.S. (550) 173)

Ginsenoside Rg₁

Ginsenoside Rb₁; Ginsenoside Ro; Anxiolytic action; Elevated plus-maze; Male mouse (Carr, M.N. (531) 160)

Ginsenoside Rh₂

Ginseng; (R)- or (S)-stereoisomer; NMDA; Polyamine-binding site; Patch-clamp (Lee, E. (536) 69)

Ginsenoside Ro

Ginsenoside Rb₁; Ginsenoside Rg₁; Anxiolytic action; Elevated plus-maze; Male mouse (Carr, M.N. (531) 160)

Ginsenoside-Rd

Receptor-operated; Store-operated; Ca²⁺ channel; Ca²⁺ entry (Guan, Y.-Y. (548) 129)

Glial cell

Bradykinin; Lipopolysaccharide; Prostaglandin E₂ (Levant, A. (546) 197)

Glibenclamide-sensitivity

ATP-sensitive K⁺ channels; Conventional whole-cell configuration; Cytosolic extract; Nystatin-perforated patch recording (Teramoto, N. (531) 34)

Glioma

Proliferation; COX; NSAID; Indomethacin (Bernardi, A. (532) 214)

GLP-2 receptor

Gα protein signalling; Intestinal growth; RT-PCR; Western blot; cAMP (Sams, A. (532) 18)

β-glucan

Lipid peroxidation; Glutathione; Myeloperoxidase activity; TNF-α; Apoptosis (Şener, G. (542) 170)

Acetaminophen; Glutathione; Lipid peroxidation; Oxidative injury; Tumour necrosis factor-alpha (Toklu, H.Z. (543) 133)

Glucagon mobilization

Capsaicin; Glucose absorption test; Capsaicin-induced glucagon mobilization; Human healthy subjects (Dömötör, A. (534) 280)

Glucagon-like Peptide-1

Dipeptidyl peptidase-IV; Dipeptidyl peptidase 8; Dipeptidyl peptidase 9; Insulin (Yasuda, N. (548) 181)

Glucocorticoid

Glucocorticoid-induced leucine zipper (GILZ); Apoptosis; Thymocyte; Genomic effect; Non-genomic effect (Bruscoli, S. (529) 63)

Adrenergic beta-agonist; COPD; Asthma (Sin, D.D. (533) 28)

Glucocorticoid receptor

Transcription factor; Histone deacetylase; Histone acetyltransferase; Nuclear factor-κB; Inflammation; Asthma; COPD (chronic obstructive pulmonary disease); Corticosteroid resistance (Barnes, P.J. (533) 2)

Glucocorticoid-induced leucine zipper (GILZ)

Glucocorticoid; Apoptosis; Thymocyte; Genomic effect; Non-genomic effect (Bruscoli, S. (529) 63)

Glucocorticosteroid

Asthma; Allergic rhinitis; Leukotriene; Bronchoprovocation (Dahlén, S.-E. (533) 40)

Glucose

(–)-Epigallocatechin-3-gallate; Oxygen free radical; Streptozotocin; Insulin (Yun, S.-Y. (541) 115)

Glucose absorption test

Capsaicin; Glucagon mobilization; Capsaicin-induced glucagon mobilization; Human healthy subjects (Dömötör, A. (534) 280)

Glucose formation

Suramin; Hyperglycaemia; Renal tubules; Pyruvate kinase; (Rabbit) (Jagielski, A.K. (537) 205)

Glucose intolerance

Anandamide; Cannabinoid receptor (Bermúdez-Siva, F.J. (531) 282)

Glucosylceramide synthase inhibitor

P-glycoprotein; Bioavailability; Deoxygalactonojirimycin; Glycolipid; Drug transport (Norris-Cervetto, E. (530) 195)

Glutamate

Prostaglandin; Formalin; GABA; Mouse (Oliva, P. (530) 40)

Cocaine; Sensitization; Microdialysis; Motor activity; GABA (Jayaram, P. (531) 74)

Etomidate; Ketamine; Thiopental; Proconvulsant; Excitatory amino acid transporter type 3; Voltage clamp; *Xenopus* oocyte (Yun, J.-Y. (531) 133)

Nipradilol; Nitric oxide; NMDA receptor; Cerebral cortex (Taguchi, R. (535) 86)

Morphine; GABA; Withdrawal; Spinal (Dunbar, S.A. (535) 152)

Dopamine transporter; Cocaine; Charged amino acid; Mutant (Dar, D.E. (538) 43)

Schizophrenia; Antipsychotic; Confocal microscopy (Jordan, S. (540) 53)

TRPV1; Spinal cord; Inflammation; Synaptic transmission; Substantia gelatinosa (Lappin, S.C. (540) 73)

Serofendic acid; Neuroprotection; Mitochondria; Caspase (Kume, T. (542) 69)

Alzheimer's disease; Presynaptic boutons; Amyloid beta protein; Dystrophic neurites; GABA; Acetylcholine (Bell, K.F.S. (545) 11)

Glycynhizic acid; Neuroprotection; NMDA receptor; Neuronal apoptosis; Transcription factor; Ca^{2+} influx (Cherng, J.-M. (547) 10)

Acetylcholinesterase; Alzheimer's disease; Cortical culture; Nicotinic acetylcholine receptor; Neurotoxicity (Takada-Takatori, Y. (549) 19)

Glutamate carboxypeptidase II

2-Phosphonomethyl-pentanedioic acid; Electroconvulsive threshold; Maximal electroshock; Antiepileptic drug; Valproate; Pharmacokinetic interaction (Luszczki, J.J. (531) 66)

Glutamate excitotoxicity

Donepezil; Acetylcholinesterase inhibitor; LDH release; Intracellular calcium concentration; Primary cultured cerebral cortical neurons (Akasofu, S. (530) 215)

Glutamate receptor antagonist

Antirheumatic drug; Synoviocyte; Proliferation; In vitro (Parada-Turska, J. (535) 95)

Glutamate receptors

Cortical neurons; Ischemia; Excitotoxicity; Cytoplasmic calcium; MAPK [mitogen-activated protein kinase]; Swelling (Franceschini, D. (553) 18)

Glutamatergic receptor

Anatoxin-a; Dopamine; *In vivo* microdialysis; Nicotinic receptor; Nitric oxide; Striatum (Campos, F. (548) 90)

Glutathion

Antioxidant; Daidzein; Equol; Prooxidant (Jeong Choi, E. (542) 162)

Glutathione

Oxidants; Antioxidants; Lungs; Superoxide dismutase; Thioredoxin (Rahman, I. (533) 222)

Aging; Oxidative stress; Gene expression; Fibroblast (Braam, B. (542) 154)

β -glucan; Lipid peroxidation; Myeloperoxidase activity; TNF- α ; Apoptosis (Şener, G. (542) 170)

Acetaminophen; β -glucan; Lipid peroxidation; Oxidative injury; Tumour necrosis factor- α (Toklu, H.Z. (543) 133)

Glutathione reductase

Melatonin; Erythrocyte (Erat, M. (537) 59)

Glycaemia

N-Acetylcysteine; Sucrose; Lipid profile; Oxidative stress (Diniz, Y.S. (543) 151)

Glycine receptor

Strychnine; Patch-clamp; [^3H]strychnine binding; Antimalarial drug (Philippe, G. (530) 15)

Strychnine; Brucine; Nicotinic acetylcholine receptor- $\alpha 7$ (Jensen, A.A. (539) 27)

Glycolipid

P-glycoprotein; Bioavailability; Deoxygalactonojirimycin; Drug transport; Glucosylceramide synthase inhibitor (Norris-Cervetto, E. (530) 195)

Glycolysis

Ibogaine; Addiction; Energy metabolism; Tricarboxylic acid cycle; Proteomics; Rat brain (Paškulin, R. (552) 11)

Glycoprotein IIb/IIIa

PC-09; Platelet aggregation; Cyclic AMP; Thromboxane B_2 (Cherng, S.-C. (532) 32)

Glycosyltransferase mRNA

Carbocysteine; Sialyl-Lewis x; Phosphatidyl inositol-specific phospholipase C; NCI-H292; TNF- α (Ishibashi, Y. (530) 223)

Glycyrrhizic acid

Neuroprotection; Glutamate; NMDA receptor; Neuronal apoptosis; Transcription factor; Ca^{2+} influx (Cherng, J.-M. (547) 10)

Goblet cell

Allergic inflammation; Forced expiratory maneuver; Forced oscillation; Edema; FRC (Functional Residual Capacity); FVC (Forced Vital Capacity); IC (Inspiratory Capacity); MMEF (Mean Mid-Expiratory Flow); Cchord; Lung parenchyma; (Brown-Norway rat) (Celly, C.S. (540) 147)

Phosphodiesterase-4; PDE4D; Ciclamilast; Dexamethasone; Inflammation; Cytokines; Airways hyperresponsiveness; Asthma (Deng, Y.-m. (547) 125)

Goldfish receptor 5.24

Family C of G protein-coupled receptor; L- α -Amino acid; GPRC6A (Christiansen, B. (536) 98)

Gomisin A

Memory; Passive avoidance test; Y-maze test; Morris water maze; Acetylcholinesterase (Kim, D.H. (542) 129)

gp91phox

NADPH oxidase; Deoxycorticosterone acetate (DOCA)-salt hypertension; Superoxide (Fujii, A. (552) 131)

GPRC6A

Family C of G protein-coupled receptor; Goldfish receptor 5.24; L- α -Amino acid (Christiansen, B. (536) 98)

G-protein coupled receptor

Histamine H_3 receptor; GT-2331 (Ito, S. (529) 40)

Granulocytes

Paw edema; β -endorphin; Phagocytosis; NO (nitric oxide) production; μ , δ , κ opioid receptors; AO (Albino Oxford) rat; DA (Dark Agouti) rat (Stanojević, S. (549) 157)

Granulopoiesis

Adenosine A₃ receptor; Myelosuppression; 5-Fluorouracil; (Mouse) (Hofer, M. (538) 163)

Green tea

Amyloid synthesis; Curcumin; Blueberries; Resveratrol; Ginkgo biloba extract EGb 761 (Ramassamy, C. (545) 51)

Green tea catechin

Guinea pig right atria; Langendorff hearts; Positive inotropic effect; NO release; Intracellular Ca²⁺; Pimobendan (Hotta, Y. (552) 123)

Growth cell

Digitalis; Apoptosis; Cytochrome *c* (Ramirez-Ortega, M. (534) 71)

Growth factors

Matrix metalloproteinase; Tissue inhibitor of MMP; Asthma; Cytokine (Gueders, M.M. (533) 133)

Growth hormone

Ghrelin; Gastric growth; Insulin-like growth factor-1; Food intake; Body weight gain (Warzecha, Z. (529) 145)

Growth inhibition

Quercetin; TNF- α ; MC3T3-E1 osteoblastic cell; Apoptosis induction (Son, Y.-O. (529) 24)

Growth-related oncogene/cytokine-induced neutrophils chemoattractant-1

Direct hemoperfusion using polymyxin B immobilized column; Hydrochloric acid-induced lung injury; Anandamide; Neutrophil recruitment (Tsushima, K. (535) 270)

GSH

2',4',6'-Tris(methoxymethoxy) chalcone; Nitric oxide; Nuclear factor- κ B; Heme oxygenase 1; p42/44 MAPK (Lee, S.H. (532) 178)

GSH (glutathione)

Cell volume; Cytosolic ATP; Apoptosis; Phosphatidylserine; Calcium (Akel, A. (532) 11)

GT-2331

Histamine H₃ receptor; G-protein coupled receptor (Ito, S. (529) 40)

[³⁵H] GTP γ S

Dopamine D₄ receptor; Polymorphism; Norepinephrine; Epinephrine; Sodium (Czermak, C. (531) 20)

Aplindore; Dopamine D₂ receptor; Chimeric G_{αq/o}-protein; Intracellular calcium flux; ERK-phosphorylation; Unilaterally 6-hydroxydopamine lesioned rat (Heinrich, J.N. (552) 36)

Guanylin

GEA3162; Human colon; L-N^G-nitroarginine methyl ester; Nicardipine; Serotonin release (Kojima, S.-i. (550) 162)

Guanylyl cyclase

Gabapentin; Neuropathic pain; Nitric oxide; Protein kinase G; K⁺ channel opener; Diazoxide; Pinacidil (Mixcoatl-Zecuatl, T. (531) 87)

Estrogen receptor; Tamoxifen; Methylene blue; Pertussis toxin (Alex, A.B. (546) 102)

(Guinea pig)

Airway hyperresponsiveness; Airway smooth muscle; Allergy; Asthma; Contraction; Ovalbumin; Passive sensitization; Rho-kinase; Y-27632 (Schaafsma, D. (531) 145)

Guinea pig

Antipsychotic; Cyamemazine; *h*ERG; Phenothiazine; Arrhythmia; QT prolongation (Crumb, W. (532) 270)

Ileum; Tolerance; Dependence; Morphine; Lithium (Alborzi, A. (545) 123)

Airway hyperresponsiveness; Airway smooth muscle; Allergic asthma; Arginine; Argininosuccinate lyase; Argininosuccinate synthase; Citrulline; Inhibitory nonadrenergic noncholinergic nerve; Nitric oxide synthase (Maarsingh, H. (546) 171)

Ca²⁺ channel; Mechanotransduction; Mechanical stress; Trachea; TRP (transient receptor potential) channel (Ito, S. (552) 135)

Guinea pig right atria

Langendorff hearts; Positive inotropic effect; Green tea catechin; NO release; Intracellular Ca²⁺; Pimobendan (Hotta, Y. (552) 123)

(Guinea-pig)

Dofetilide; Potassium; Ischemia–reperfusion; Delayed outward rectifier (Ducroq, J. (532) 279)

GW501516

Methionine-choline-deficient diet; NASH; Bezafibrate; PPAR; (Mouse) (Nagasawa, T. (536) 182)

H₂O₂

Antioxidant effect; Ginsenoside Re; ESR spectroscopy; Cardiomyocyte; Ischemia and reperfusion damage; Antimycin A (Xie, J.-T. (532) 201)

H₂O₂ [hydrogen peroxide]

Apoptosis; BAPTA/AM [1,2-bis(*o*-aminophenoxy)ethane-*N,N,N',N'*-tetraacetic acid/tetra(acetoxymethyl) ester]; Beta cell; Ca²⁺ [calcium] (Choi, S.-E. (547) 1)

h- α Calcitonin gene-related peptide (h- α CGRP)

BIBN4096BS; h- α CGRP₈₋₃₇; [Cys(Acm)^{2,7}]-h- α CGRP; [Cys(Et)^{2,7}]-h- α CGRP; CGRP receptor; Human coronary artery (Gupta, S. (530) 107)

HaCaT cell

ATP; UTP; P2Y receptor; Keratinocyte; Interleukin-6 (Yoshida, H. (540) 1)

HaCaT cells

Platycodin D; NF- κ B activation; Apoptosis; Caspase-3 and 8; Fas and Fas ligand (Ahn, K.S. (537) 1)

h- α CGRP₈₋₃₇

BIBN4096BS; h- α Calcitonin gene-related peptide (h- α CGRP); [Cys(Acm)^{2,7}]-h- α CGRP; [Cys(Et)^{2,7}]-h- α CGRP; CGRP receptor; Human coronary artery (Gupta, S. (530) 107)

Haematopoiesis

Titanocene; Tumour; Natural killer (Valadares, M.C. (534) 264)

Hairless mice

Itch; Atopic dermatitis; Skin barrier dysfunction (Fujii, M. (530) 152)

Haloperidol

Dizocilpine maleate; NMDA receptor antagonist; Locomotion; Immobility; Catalepsy (Tang, Y. (537) 77)

Transient outward current; Sigma receptors; Rat ventricular myocytes; Whole-cell patch clamp; Quantitative model (Bébarová, M. (550) 15)

Hamster

Apical sodium-dependent bile acid transporter; Enterohepatic circulation; Hypocholesterolemic agent; Monkey; Cholesterol (Kitayama, K. (539) 89)

Hapten

Allergic dermatitis; Mouse; Scratching behavior; Immunoglobulin E; Interferon- γ ; Interleukin-4; Interleukin-5; Tacrolimus; Dexamethasone (Inagaki, N. (546) 189)

Heart

Perfusion; Moxonidine; Atrial natriuretic peptide; Imidazoline receptors; α_2 -adrenoceptors (Mukaddam-Daher, S. (541) 73)

Cyclophosphamide; Hyperlipidemia; Serum; Lipoic acid (Mythili, Y. (543) 92)

Ischemia-reperfusion; Sodium–calcium exchanger; Mitochondria; SEA0400 (Namekata, I. (543) 108)

Heart failure

Pulmonary circulation; Blood pressure; Urotensin-II; Hypoxia; Pulmonary hypertension (Deuchar, G.A. (537) 135)

Noradrenaline; Acetylcholine; Cytosolic calcium; Artery; Infarction (Trautner, S. (537) 143)

Pulmonary circulation; Histopathology; Cyclo-oxygenase; Angiogenesis (van Albada, M.E. (549) 107)

Apelin; Contractility; Excitation–contraction coupling; Ca^{2+} responsiveness (Dai, T. (553) 222)

Heart rate

Ranolazine; Long-acting nitrate; Sildenafil; Blood pressure; Conscious dog (Zhao, G. (541) 171)

Heart rate regulation

Voltage gated sodium channel blocker (Létienne, R. (530) 243)

Heat-loss

Polymyxin B; Hypothermia; Metabolic rate (Moriyama, N. (541) 38)

HEK-293 cell

$\alpha 4\beta 2$ nicotinic acetylcholine receptor; *Xenopus* oocyte; Voltage clamp; Heterologous expression (Zwart, R. (539) 10)

Heme oxygenase 1

2/4/6/Tris(methoxymethoxy) chalcone; Nitric oxide; Nuclear factor- κ B; p42/44 MAPK; GSH (Lee, S.H. (532) 178)

Hemin

Baicalein; Baicalin; Wogonin; Liver injury; HepG2 cell (Zhao, Y. (536) 192)

Hemodynamics

α_1 -adrenoceptor; 5-HT₂ receptor; Nitroblue tetrazolium; (Rat) (Owen, J.R. (535) 248)

Mesenteric traction; Cyclooxygenase-inhibitor; Prostaglandin; Oxygenation (Bucher, M. (536) 296)

Volatile anesthetic; Isolated heart; Ventricular function (Sigg, D.C. (543) 97)

Ischemia; Remodeling; Transgenic animal models (Koch, M. (550) 143)

Hepatocellular carcinoma

H-ras12V; Long-term treatment; Cinnamaldehyde (Moon, E.-Y. (530) 270)

Hepatocyte growth factor

Cerebral ischemia; Hippocampus; Extracellular signal-regulated kinase (Niimura, M. (535) 114)

Hepatoma

Platinum complex; Bile acid; Cisplatin; Carboplatin; Mitoxantrone (Barbara, C. (549) 27)

Hepatonecrosis

N-nitrosufenfluramine; Fenfluramine; Appetite suppressant; Mitochondrial permeability transition; Mitochondrial dysfunction; Dietary supplement (Nakagawa, Y. (529) 33)

Hepatoprotection

1,4-Dihydropyridine; Antioxidants; Lipid peroxidation; Malondialdehyde; 4-Hydroxynonenal (Borovic, S. (537) 12)

Hepatotoxicity

Cisplatin; Lipid peroxidation; Enzymatic antioxidant (Pratibha, R. (532) 290)

Bioactivation; Reactive metabolite (Park, K.B. (549) 1)

HepG2 cell

Hemin; Baicalein; Baicalin; Wogonin; Liver injury (Zhao, Y. (536) 192)

hERG

Antipsychotic; Cyamemazine; Phenothiazine; Arrhythmia; QT prolongation; Guinea pig (Crumb, W. (532) 270)

HERG

QT prolongation; KCNQ1; Patch-clamp; Estradiol (Möller, C. (532) 44)

HERG channel

Prochlorperazine; Antiemetic drug; I_{Kr} ; Long QT syndrome; Arrhythmias (Kim, M.-D. (544) 82)

HERG potassium channel

Maprotiline; Acquired long QT syndrome; Arrhythmia; Torsade de pointes; I_{Kr} ; QT interval; Rapid delayed rectifier (Ferrer-Villada, T. (531) 1)

Herpes zoster

Postherpetic neuralgia; Opioid receptor; Morphine; Nalfurafine; Analgesia (Takasaki, I. (550) 62)

Hershberger assay

3-methyl-4-nitrophenol; Anti-androgenic activity; Diesel exhaust particle; Recombinant yeast screen assay (Li, C. (543) 194)

Hesperidin

Flavonoid glycosides; GABA_A; Sedation; Sleep-enhancing action (Fernández, S.P. (539) 168)

Heterologous expression

$\alpha 4\beta 2$ nicotinic acetylcholine receptor; *Xenopus* oocyte; HEK-293 cell; Voltage clamp (Zwart, R. (539) 10)

Hexarelin

SR141716; Food intake; Tolerance; Body weight (Rigamonti, A.E. (542) 116)

HI-6

Pyridinium oxime; Acetylcholinesterase; Antidote; Pralidoxime; Obidoxime; Trimedoxime; HLö-7; Warfare nerve agent; Organophosphorus insecticide (Jokanović, M. (553) 10)

High glucose

Angiotensin converting enzyme inhibitor; Dihydropyridine; Endothelial cell; Nitric oxide; Superoxide (Rosenkranz, A.C. (529) 55)

Hypertension; Nitric oxide; Protein kinase C- β II; Vascular smooth muscle cell (Pacheco, M.E. (538) 115)

Caco-2 cells; Folate absorption; Reduced Folate Transporter (Martel, F. (551) 19)

High-density lipoprotein (HDL)

Peroxisome proliferator-activated receptors (PPARs); Liver X receptor α ; Apolipoprotein A-I (apoA-I); ATP binding cassette transporter A1 (ABCA1) (Guo, L. (551) 80)

Hippocampal damage

Ischemic stroke; Learning and memory; Melanocortins; Therapeutic window; (Mongolian gerbil) (Giuliani, D. (538) 48)

Thymoquinone; Forebrain ischemia; Oxidative stress (Al-Majed, A.A. (543) 40)

Hippocampal synaptosome

^{45}Ca uptake; Tetrodotoxin-sensitive Na^+ channel; $\text{Na}^+/\text{Ca}^{2+}$ -exchanger; (Costa, J. (544) 39)

Hippocampus

PPAR- γ (peroxisome proliferator-activated receptor- γ); PPAR- γ agonist; Ischemia/reperfusion; Oxidative stress; Inflammation (Collino, M. (530) 70)

Interleukin-1 β ; Adenosine; Ca^{2+} -induced Ca^{2+} releasing system; Neuroprotection; Neurodegeneration (Zhu, G. (532) 246)

AP4 (L(+)-2-amino-4-phosphonobutanoic acid); LTD (Long-term depression); Histology; In vivo (Naie, K. (535) 104)

Cerebral ischemia; Hepatocyte growth factor; Extracellular signal-regulated kinase (Niimura, M. (535) 114)

Scopolamine; Radial maze; Theta power; Peak frequency (Masuoka, T. (539) 76)

Adenosine; GABA; Nitric oxide (Fragata, I.R. (543) 32)

Redox proteomics; Alzheimer's disease; Oxidative stress; Protein oxidation; Inferior parietal lobule (Butterfield, D.A. (545) 39)

Amyloid- β ; Ibotenate; Memantine; MK-801; Water maze (Nakamura, S. (548) 115) Gene expression; Isoflurane; Nitrous oxide; Anesthesia; (Rat) (Culley, D.J. (549) 71)

Histamine

Vasodilation; Vasoconstriction; Perivascular nerve; Rat mesenteric resistance artery (Jin, H. (529) 136)

Itch; Pyrilamine; PAR2 (proteinase-activated receptor-2) (Shimada, S.G. (530) 281)

T cell; B cell; Histamine receptor; Inflammation; Allergy; Asthma (Akdis, C.A. (533) 69)

Cyclooxygenase-1; Thromboxane A_2 ; Catecholamines; Adrenal medulla (Shimizu, T. (541) 152)

Histamine H_4 receptor; Liver ischemia; Portal vein; (Rat) (Adachi, N. (544) 181)

Cerebral ischemia; Gerbil; Histamine H_3 receptor; L-Histidine; Hypothermia; Thioperamide (Adachi, N. (546) 69)

Cl^- channel; K^+ channel; Rat colon (Schultheiss, G. (546) 161)

Bepotastine besilate; Itch-associated response; Substance P; Leukotriene B_4 ; Serotonin; Zileuton (Andoh, T. (547) 59)

Myogenic tone; Endothelium; K_V potassium channels; Rat cerebral artery (Jarajapu, Y.P.R. (547) 116)

Experimental asthma; Pulmonary mechanics; Resistance; Compliance; Hyper-reactivity; L-NAME (Friberg, S.G. (547) 143)

Cough reflex; Histamine H_1 receptor; ATP; Ionotropic purinergic receptor; Rapidly adapting receptor (Kamei, J. (547) 160)

Levofloxacin; Hyperglycemia; Hypoglycemia; Epinephrine; (Rat) (Ishiwata, Y. (551) 168)

Histamine H_1 receptor

Antihistamine; Binding; Levocetirizine; Desloratadine; Fexofenadine (Gillard, M. (530) 205)

Cough reflex; Histamine; ATP; Ionotropic purinergic receptor; Rapidly adapting receptor (Kamei, J. (547) 160)

Histamine H_3 receptor

GT-2331; G-protein coupled receptor (Ito, S. (529) 40)

(R)- α -methylhistamine; Gastrointestinal mucosa; Epithelial thickness and cell proliferation; (Rat) (Grandi, D. (538) 141) Cerebral ischemia; Gerbil; Histamine; L-Histidine; Hypothermia; Thioperamide (Adachi, N. (546) 69)

6-OHDA-lesioned rat; Priming; Dopamine D_1 receptor; Vacuous chewing movement; Catalepsy; Striatum; Microdialysis (Nowak, P. (552) 46)

Histamine H_3 receptor agonist

Fentanyl; Nociception; Plasma extravasation; Synergy (Poveda, R. (541) 53)

Histamine H_4 receptor

Histamine; Liver ischemia; Portal vein; (Rat) (Adachi, N. (544) 181)

Histamine receptor

Histamine; T cell; B cell; Inflammation; Allergy; Asthma (Akdis, C.A. (533) 69)

Histamine release

Thrombin inhibitor; Mast cell; G protein; Basic secretagogue; Azaphenylalanine scaffold (Štampelj, M. (538) 182)

Histology

AP4 (L(+)-2-amino-4-phosphonobutanoic acid); LTD (Long-term depression); Hippocampus; In vivo (Naie, K. (535) 104)

Histone acetyltransferase

Glucocorticoid receptor; Transcription factor; Histone deacetylase; Nuclear factor- κB ; Inflammation; Asthma; COPD (chronic obstructive pulmonary disease); Corticosteroid resistance (Barnes, P.J. (533) 2)

Histone deacetylase

Glucocorticoid receptor; Transcription factor; Histone acetyltransferase; Nuclear factor- κB ; Inflammation; Asthma; COPD (chronic obstructive pulmonary disease); Corticosteroid resistance (Barnes, P.J. (533) 2)

Histone deacetylase inhibitor

Apoptosis; Differentiation; Leukemia; Transcription factors (Savickiene, J. (549) 9)

Histopathology

Pulmonary circulation; Heart failure; Cyclo-oxygenase; Angiogenesis (van Albada, M.E. (549) 107)

HIV

Paraoxonase; Monocyte chemoattractant protein-1; Postprandial; Metformin; Rosiglitazone (Coll, B. (544) 104)

HLö-7

Pyridinium oxime; Acetylcholinesterase; Antidote; Pralidoxime; Obidoxime; Trimedoxime; HI-6; Warfare nerve agent; Organophosphorus insecticide (Jokanović, M. (553) 10)

Homocysteine

Aorta; Copper; Nitric oxide; Superoxide; NADPH oxidase (Shukla, N. (531) 201)

Porcine coronary artery; BK_{Ca} channel; Nicotinamide adenine dinucleotide phosphate-oxidase; Superoxide anion (Au, A.L.S. (546) 109)

Folic acid; Endothelial dysfunction (Clarke, Z.L. (551) 92)

Honokiol

Magnolol; Oxidative stress; Excitotoxicity; Cerebellar granule cell (Lin, Y.-R. (537) 64)

Horseradish peroxidase

Colchicine; Hydroxyacetophenone; Vesicular transport (Tradtrantip, L. (547) 152)

Hot-plate

Atropine; Fluoxetine; Naloxone; Neuropathic pain; Streptozotocin; Tail-immersion (Anjaneyulu, M. (538) 80)

Analgesia; Inflammation; Nociception; Rho-kinase; Writhing; Y-27632 (Büyükaşar, K. (541) 49)

HPMPA (9-[2-Hydroxy-3-(phosphonomethoxy)propyl]adenine)

Acyclic nucleotide analogues; Immunostimulation; Nitric oxide; Cytokine (Potměšil, P. (540) 191)

H-ras12V

Hepatocellular carcinoma; Long-term treatment; Cinnamaldehyde (Moon, E.-Y. (530) 270)

HT-29

WIN55212-2 [methanone mesylate]; IL-8 [interleukin-8]; I κ B [inhibitory kappa B]; NF- κ B [nuclear factor-kappa B]; cannabinoid; CB $_2$ receptor (Mormina, M.E. (540) 183)

5-HT

Neuropeptide Y; Endothelium; Coronary artery; Contraction; TXA $_2$ (Tsurumaki, T. (544) 111)

Para-methoxyamphetamine; 3,4-methylenedioxymethamphetamine; Serotonin transporter; Neurodegeneration (Callaghan, P.D. (546) 74)

Fluvoxamine; Sciatic nerve ligation; Chronic pain; μ -Opioid receptor; δ -Opioid receptor (Nozaki, C. (552) 99)

Memory; Cognition; Water maze; Acetylcholine; *In vivo* microdialysis (Hirst, W.D. (553) 109)

5-HT (5-hydroxytryptamine, serotonin)

Δ^9 -tetrahydrocannabinol; Cannabinoids; Catalepsy; 5-HT $_{1A}$ receptor; (Mouse) (Egashira, N. (550) 117)

5-HT (5-hydroxytryptamine)

5-HT syndrome; MAO (Monoamine oxidase) inhibitor; SSRI (Serotonin reuptake inhibitor) (Izumi, T. (532) 258)

5-HT receptor

Ghrelin receptor antagonist; Contraction study (Depoortere, I. (537) 160)

5-HT receptor ligands

α_1 -Adrenoceptors; Blood pressure; Phenylephrine; Pithed rat (Centurión, D. (535) 234)

5-HT re-uptake

5-HT $_{1A}$ receptor; 5-HT $_{1B}$ receptor; Antagonist; Autoreceptor (Scott, C. (536) 54)

5-HT syndrome

5-HT (5-hydroxytryptamine); MAO (Monoamine oxidase) inhibitor; SSRI (Serotonin reuptake inhibitor) (Izumi, T. (532) 258)

5-HT transporter

Tramadol; 5-HT $_3$ receptor; Emesis; Patch clamp; [3 H]5-HT uptake (Barann, M. (531) 54)

5-HT uptake

Tramadol; 5-HT transporter; 5-HT $_3$ receptor; Emesis; Patch clamp (Barann, M. (531) 54)

5-HT $_{1A}$

Antipsychotic; Schizophrenia; D $_{2S}$; Extracellular signal-regulated kinase (Bruins Slot, L.A. (534) 63)

5-HT $_{1A}$ receptor

Perinatal protein malnutrition; Dorsal raphe nucleus; Fluoxetine; Panic disorder (Sodero, A.O. (532) 230)

α_2 -adrenoceptor; Atipamezole; Descending inhibition; Neuropathic pain; WAY-100635 (Wei, H. (535) 157)

5-HT $_{1B}$ receptor; Antagonist; 5-HT re-uptake; Autoreceptor (Scott, C. (536) 54)

GABA $_A$ receptor; Strain differences; Knockout; Body temperature; Stress-induced hyperthermia; GABA $_A$ receptor; Genetic background; 5-HT $_7$ receptor; (Mouse) (Van Bogaert, M. (550) 84)

Δ^9 -tetrahydrocannabinol; Cannabinoids; Catalepsy; 5-HT (5-hydroxytryptamine, serotonin); (Mouse) (Egashira, N. (550) 117)

5-HT $_{1A}$ receptor agonist

Flesinoxan; Fear conditioning; The hippocampus; The amygdala; The medial prefrontal cortex (Li, X. (532) 74)

5-HT $_{1A}$ receptor antagonist

Langendorff heart; Mitochondrial K $_{ATP}$ channel; Spectroscopy; MPTP (mitochondrial permeability transition pore); Apoptosis (Huang, L. (534) 165)

5-HT $_{1A}$ receptors

5-hydroxytryptamine; Nitric oxide; Experimental diabetes; Prejunctional inhibition (Garcia, M. (537) 126)

5-HT $_{1B}$ receptor

5-HT $_{1A}$ receptor; Antagonist; 5-HT re-uptake; Autoreceptor (Scott, C. (536) 54)

CP 94253; RU 24969; *p*-Chlorophenylalanine; Maximal electroshock; Pentylentetrazol-induced seizure; (Mice) (Wesołowska, A. (541) 57)

5-HT $_2$ receptor

α_1 -adrenoceptor; Nitroblue tetrazolium; Hemodynamics; (Rat) (Owen, J.R. (535) 248)

5-HT $_{2A}$ receptor

DOI; EMD 281014; 5-HT $_{2C}$ receptor; GABA; LDT/PPT nuclei; REM sleep; SB-243213; Serotonin; Slow wave sleep; Waking; (Rat) (Monti, J.M. (553) 163)

5-HT $_{2C}$ receptor

DOI; EMD 281014; 5-HT $_{2A}$ receptor; GABA; LDT/PPT nuclei; REM sleep; SB-243213; Serotonin; Slow wave sleep; Waking; (Rat) (Monti, J.M. (553) 163)

5-HT $_3$

Prostanoid; Emesis; Defecation; Ferret; NK $_1$ (Kan, K.K.W. (544) 153)

5-HT $_3$ receptor

Gingerol; Shogaol (Abdel-Aziz, H. (530) 136)

Tramadol; 5-HT transporter; Emesis; Patch clamp; [3 H]5-HT uptake (Barann, M. (531) 54)

5-HT $_3$ receptor agonist; 5-HT $_3$ receptor antagonist; 5-HT $_{3A}$; (Canine); (Dog) (Jensen, T.N. (538) 23)

Schizophrenia; Cognition; $\alpha 7$ Nicotinic receptor; NMDA receptor; Tropisetron (Hashimoto, K. (553) 191)

5-HT₃ receptor agonist

5-HT₃ receptor; 5-HT₃ receptor receptor antagonist; 5-HT_{3A}; (Canine); (Dog) (Jensen, T.N. (538) 23)

5-HT₃ receptor receptor antagonist

5-HT₃ receptor; 5-HT₃ receptor agonist; 5-HT_{3A}; (Canine); (Dog) (Jensen, T.N. (538) 23)

5-HT_{3A}

5-HT₃ receptor; 5-HT₃ receptor agonist; 5-HT₃ receptor receptor antagonist; (Canine); (Dog) (Jensen, T.N. (538) 23)

5-HT₇ receptor

Body temperature; Stress-induced hyperthermia; GABAA receptor; Genetic background; (Mouse) (Van Bogaert, M. (550) 84)

5-HT₇ receptor

Lipid raft; G protein coupled receptor; SB269970; Serotonin; Cholesterol (Sjögren, B. (552) 1)

5-HT₇ receptor antagonist

Drinking conflict test; Forced swimming test; Intrahippocampal injection; (Rat) (Wesołowska, A. (553) 185)

HT29 colorectal tumor cell

Tricyclic antidepressant; Apoptotic cell death; Non-mitochondrial pathway; Cell-cycle arrest (Arimochi, H. (541) 17)

(Human)

Voltage-gated Na⁺ channel; α subunit; β subunit; mRNA expression; Peripheral tissue (Candenas, L. (541) 9)

Human

Intracellular calcium; Nitric oxide; Artery; Acetylcholine (Buus, N.H. (535) 243)

Eosinophil; Cyclic adenosine monophosphate; Signal transduction; Protein kinase; Reactive oxygen species; Phorbol myristate acetate (Ezeamuzie, C.I. (543) 174)

Human brain

Levetiracetam; Antiepileptic; Binding; SV2A (Gillard, M. (536) 102)

Human breast cancer

Carboxyamido-triazole; Cell cycle; Apoptosis; Mitochondrial membrane potential (Guo, L. (538) 15)

Human cannabinoid CB₁ receptor

Mutagenesis; AM2233; AM251 (Shen, C.-P. (531) 41)

Human colon

GEA3162; Guanylin; L-N^G-nitroarginine methyl ester; Nicardipine; Serotonin release (Kojima, S.-i. (550) 162)

Human coronary artery

BIBN4096BS; h- α Calcitonin gene-related peptide (h- α CGRP); h- α CGRP₈₋₃₇; [Cys(Acm)^{2,7}]-h- α CGRP; [Cys(Et)^{2,7}]-h- α CGRP; CGRP receptor (Gupta, S. (530) 107)

Human gallbladder

Carbachol; Cholecystokinin; Rho-kinase; Y-27632 (Büyükaşar, K. (540) 162)

Human gingival fibroblast

Protein kinase B; Mitogen-activated protein; Lipopolysaccharide; Luteolin; Nitric oxide; Nitric oxide synthase (Gutiérrez-Venegas, G. (541) 95)

Human growth hormone

Resistance exercise; Lipid metabolism; (Aged female rat) (Yang, J.-Y. (539) 99)

Human healthy subjects

Capsaicin; Glucose absorption test; Glucagon mobilization; Capsaicin-induced glucagon mobilization (Dömötör, A. (534) 280)

Human hepatocyte

Iron chelation; Cell proliferation; Polyamine metabolism (Chantrel-Groussard, K. (541) 129)

Human lung squamous carcinoma CH27 cell line

Luteolin (3',4',5',7-tetrahydroxyflavone); Superoxide dismutase; Catalase; Apoptosis (Wing-Cheung Leung, H. (534) 12)

Human μ -opioid receptor

Adenylyl cyclase superactivation; Raf-1 (Yue, X. (540) 57)

Human neutrophil

Formylpeptide; Chemotaxis; Superoxide anion release; Protein kinase C; MAP kinase (Selvatici, R. (534) 1)

P2Y₁₄ receptor; Adenylyl cyclase; Elastase release (Scrivens, M. (543) 166)

Human platelet

(–)-*Trans-ε*-viniferin; Noradrenaline and 5-hydroxytryptamine uptake; Human recombinant MAO isoform; Rat brain synaptosome (Yáñez, M. (542) 54)

Human pulmonary artery

Cyclic GMP; Sildenafil; Nitric oxide (Mauricio, M.D. (530) 259)

Human recombinant MAO isoform

(–)-*Trans-ε*-viniferin; Noradrenaline and 5-hydroxytryptamine uptake; Human platelet; Rat brain synaptosome (Yáñez, M. (542) 54)

Human umbilical cord vein endothelial cells

Emodin; Angiogenesis; ERK 1/2 (Kaneshiro, T. (553) 46)

Human umbilical vein endothelial cells

Norepinephrine; RhoA; Endothelial nitric oxide synthase; Vascular endothelial growth factor; Extracellular signal-related kinase; Mitogenic effect (Seya, Y. (553) 54)

Huntington's disease

Basal ganglia; Parkinson's disease; Mitochondria (Di Filippo, M. (545) 65)

HUVEC (human umbilical vein endothelial cell)

Superoxide; NADPH oxidase; Neutrophil; Aorta; Aortic valve; Fibroblast; Perhexiline (Kennedy, J.A. (531) 13)

Hydrochloric acid-induced lung injury

Direct hemoperfusion using polymyxin B immobilized column; Anandamide; Growth-related oncogene/cytokine-induced neutrophils chemoattractant-1; Neutrophil recruitment (Tsushima, K. (535) 270)

Hydrogen peroxide

Protocatechuic acid; Oxidative stress; Apoptosis; PC12 cells (Guan, S. (538) 73)

cPLA₂ α ; Src; Protein kinase C; Murine L929 cells (Taniguchi, T. (546) 1)

Hydrogen sulphide

Erectile dysfunction; Intracavernous pressure; Corpus cavernosum; Primate; (Rat) (Srilatha, B. (535) 280)

5-hydroxytryptamine

Cannabinoid CB₁ receptor; Amygdala (Ashton, J.C. (537) 70)

γ -hydroxybutyrate (GHB)

Flunitrazepam; Baclofen; Cross-tolerance; Rotorod; Motor performance (Smith, M.A. (552) 83)

Hydroxyacetophenone

Colchicine; Horseradish peroxidase; Vesicular transport (Tradtrantip, L. (547) 152)

7 β -hydroxycholesterol

Kaempferol; Apoptosis; Vascular smooth muscle (Ruiz, E. (529) 79)

Hydroxyl radical

Matrix metalloproteinase-9; Platelet aggregation; Membrane fluidity; Na⁺/H⁺ exchanger (Lee, Y.-M. (537) 52)

Desferrioxamine; Iron (III); 1-Methyl-4-phenylpyridinium ion (MPP⁺); Parkinson's disease (Obata, T. (539) 34)

7-Hydroxymitragynine

Antinociception; Gastrointestinal transit; μ -Opioid receptor; Morphine (Matsumoto, K. (549) 63)

4-Hydroxynonenal

1,4-Dihydropyridine; Antioxidants; Lipid peroxidation; Malondialdehyde; Hepatoprotection (Borovic, S. (537) 12)

5-hydroxytryptamine

Nitric oxide; Experimental diabetes; 5-HT_{1A} receptors; Prejunctional inhibition (García, M. (537) 126)

(5R)-5-hydroxytryptolide

Immunosuppressive; IFN- γ (Zhou, R. (537) 181)

Hygiene hypothesis

Allergy; Asthma; Bacterial extract; CpG motif; Lipopolysaccharide; Mycobacteria; Probiotics; T helper cell; Toll-like receptors; T regulatory cells (Feleszko, W. (533) 308)

Hyperalgesia

Pain; Carrageenan; Single motor unit; Behavioral (Molina, C. (532) 50)

Nitric oxide; Indomethacin; MK-801; L-NAME; Formalin test (Tassorelli, C. (534) 103)

Oxycodone; Diabetes; κ -Opioid receptors; Antinociception (Nozaki, C. (535) 145)

Mexiletine; Vincristine; Nitric oxide; Tetrodotoxin-resistant Na⁺ channel (Kamei, J. (536) 123)

Diabetic neuropathic pain; Curcumin; Nitric oxide; TNF- α ; Streptozotocin (Sharma, S. (536) 256)

Thalidomide; Tumor necrosis factor; Arthritis; Zymosan (Vale, M.L. (536) 309)

Minocycline; Neuropathic pain; Allodynia; Interleukin-6 (Zanjani, T.M. (538) 66)

Allodynia; Anticonvulsant drug; Diabetic neuropathy; Neuropathic pain; Lacosamide (Beyreuther, B. (539) 64)

Progesterone receptor; Neuropathic pain; Estrogen receptor; Allodynia; Nociception (Kondo, D. (541) 44)

Paw edema; Carrageenan; Superoxide anion; Peroxynitrite; SOD mimetic; TEMPOL (Khattab, M.M. (548) 167)

Allodynia; Analgesia; Spinal cord injury pain; Infraorbital nerve; Trigeminal neuralgia; Lacosamide (Hao, J.-X. (553) 135)

Hyperbilirubinemia

Multidrug resistance-associated protein 2; 2,4-Dinitrophenyl-S-glutathione; CCl₄-induced acute hepatic failure; Intestinal efflux (Yokooji, T. (546) 152)

Hypercholesterolemia

ACAT (Acyl-coenzyme A:cholesterol acyltransferase); Atherosclerosis; Pactimibe (Kitayama, K. (540) 121)

Hypertriglyceridemia; Crocin; Pancreatic lipase; (Rat) (Sheng, L. (543) 116)

Pactimibe; ACAT (Acyl-coenzyme A:cholesterol acyltransferase); Inhibitor (Kitayama, K. (543) 123)

Bifentate; Fenofibrate; Fatty liver; Triglyceride; Total cholesterol (Pan, S.-Y. (552) 170)

Hyperglycaemia

Suramin; Glucose formation; Renal tubules; Pyruvate kinase; (Rabbit) (Jagielski, A.K. (537) 205)

Hyperglycemia

Diabetes; Renal injury; Hyperlipidemia; Lipid peroxide (Yoshida, M. (548) 174)

Terazosin; Thyroid hormone; Hyperlipidemia; Lipid peroxidation (Jatwa, R. (551) 87)

Levofloxacin; Hypoglycemia; Epinephrine; Histamine; (Rat) (Ishiwata, Y. (551) 168)

Gatifloxacin; Hypoglycemia; Insulin secretion; Islet insulin content; K_{ATP} (ATP-sensitive K⁺) channel (Yamada, C. (553) 67)

Hyperhomocysteinemia

Carotid artery; α_{1D} -adrenoceptor; Modulation; Relaxation; Phenylephrine; Nitric oxide; Oxidative stress (de Andrade, C.R. (543) 83)

Hyperlipidemia

Cyclophosphamide; Serum; Heart; Lipoic acid (Mythili, Y. (543) 92)

Diabetes; Renal injury; Hyperglycemia; Lipid peroxide (Yoshida, M. (548) 174)

Insulin resistance; Diabetic nephropathy; Peroxisome proliferator-activated receptor γ ; YM440; Zucker fatty rat (Nakano, R. (549) 185)

Terazosin; Thyroid hormone; Hyperglycemia; Lipid peroxidation (Jatwa, R. (551) 87)

Hyperphagia

Diabetes; Methylamine; Alpha-aminoguanidine; K_v1.6 potassium channel; Semicarbazide-sensitive benzylamine oxidase activity (Cioni, L. (529) 179)

Hyperpolarizing afterpotential

Lidocaine; Tramadol; Nerve injury; Delayed depolarization; Slow sodium currents (Mert, T. (543) 54)

Hyperreactivity

Experimental asthma; Pulmonary mechanics; Histamine; Resistance; Compliance; L-NAME (Friberg, S.G. (547) 143)

Hypersensitivity

Asthma; Immunoglobulin free light chain; Mast cell; Multiple sclerosis; Rheumatoid arthritis (van der Heijden, M. (533) 319)

Hypertension

Angiotensin II; Adenosine receptor blockade (Morato, M. (531) 209)

High glucose; Nitric oxide; Protein kinase C- β II; Vascular smooth muscle cell (Pacheco, M.E. (538) 115)

Cardiac function; Cyclic GMP; Endothelium; Phosphodiesterase (Ferreira-Melo, S.E. (542) 141)

Antihypertensive drug; End-organ damage; Blood pressure variability; Baroreflex sensitivity (Xie, H.-H. (543) 77)

Hyperthyroidism

Montmorillonite; Thyroid hormone; Entero-hepatic circulation (Cai, Y. (551) 156)

Hypertriglyceridemia

Schisandrin B; Fenofibrate; Triglyceride; Total cholesterol (Pan, S.-Y. (537) 200)

Hypercholesterolemia; Crocin; Pancreatic lipase; (Rat) (Sheng, L. (543) 116)

Hypocholesterolemic agent

Apical sodium-dependent bile acid transporter; Enterohepatic circulation; Monkey; Hamster; Cholesterol (Kitayama, K. (539) 89)

Hypocretin

Psychostimulant; Immunohistochemistry; Fos; Nicotinic receptor; Rat (Pasumarthi, R.K. (535) 172)

Hypoglycemia

Levofloxacin; Hyperglycemia; Epinephrine; Histamine; (Rat) (Ishiwata, Y. (551) 168)

Glutifloxacin; Hyperglycemia; Insulin secretion; Islet insulin content; K_{ATP} (ATP-sensitive K^+) channel (Yamada, C. (553) 67)

Hypophysectomy

Anxiety; Arginine vasopressin; Vasopressin V_{1B} receptor antagonist (Shimazaki, T. (543) 63)

Hypothalamus–pituitary–adrenal axis

Corticotropin-releasing hormone; Adrenocorticotropin; Corticosteroid; Neonatal programming; Pro-opiomelanocortin antisense (Galletta, G. (550) 180)

Hypothermia

SNC-80; Nitric oxide; Delta opioid; L-NAME (Rawls, S.M. (536) 109)

Polymyxin B; Metabolic rate; Heat-loss (Moriyama, N. (541) 38)

Cerebral ischemia; Gerbil; Histamine; Histamine H_3 receptor; L-Histidine; Thioperamide (Adachi, N. (546) 69)

Agmatine; WIN 55212-2; Cannabinoid; Imidazoline; CB_1 (Rawls, S.M. (553) 89)

Hypoxia

Aging; Reoxygenation; Cariporide; Endothelium; Vasorelaxation (Besse, S. (531) 187)

KR-33028; Cardioprotective effects; Na^+/H^+ exchanger; Ischemia (Jung, Y.-S. (535) 220)

Aorta; Nifedipine; Noradrenaline; Phenylephrine (Broadley, K.J. (536) 279)

Pulmonary circulation; Blood pressure; Urotensin-II; Heart failure; Pulmonary hypertension (Deuchar, G.A. (537) 135)

Hypoxia-inducible factor-1 α ; Ca^{2+} -independent phospholipase A_2 ; Bromoenol lactone (Osada-Oka, M. (549) 58)

Hypoxia inducible factor-1 alpha

Ghrelin; Ischemia–reperfusion; Nitric oxide; Calcitonin gene related peptide; Gastric blood flow; Angiogenesis (Konturek, P.C. (536) 171)

Hypoxia-inducible factor-1 α

Ca^{2+} -independent phospholipase A_2 ; Hypoxia; Bromoenol lactone (Osada-Oka, M. (549) 58)

Hypoxia–ischemia

Ceramide; TPCK (*N*-tosyl-L-phenylalanyl-chloromethyl ketone); Neuroprotection; Apoptosis; Newborn rat (Feng, Y. (551) 34)

Hypoxic hypoxia

Melatonin; Oxidative stress; Lipid peroxidation; Liver (El-Sokkary, G.H. (540) 107)

Hypoxia–reoxygenation

Antioxidant; Thiol; Newborn; Matrix metalloproteinase (Emara, M. (544) 168)

I kappa B alpha ($I\kappa B\alpha$)

IgE; Antiallergic drug; Nuclear factor-kappa B (NF- κ B); Activation-induced cytidine deaminase (AID) (Hanashiro, K. (547) 174)

I₂-IBS (I₂-imidazoline binding sites)

Morphine analgesia modulation; I₂-IBS ligands; Phenyzoline; Diphenyzoline (Gentili, F. (553) 73)

I₂-IBS ligands

Morphine analgesia modulation; I₂-IBS (I₂-imidazoline binding sites); Phenyzoline; Diphenyzoline (Gentili, F. (553) 73)

Ibogaine

Addiction; Energy metabolism; Glycolysis; Tricarboxylic acid cycle; Proteomics; Rat brain (Paškulin, R. (552) 11)

Ibotenate

Amyloid- β ; Hippocampus; Memantine; MK-801; Water maze (Nakamura, S. (548) 115)

Ibudilast

Phosphodiesterase; Neurological disease; Respiratory disease (Gibson, L.C.D. (538) 39)

Ibuprofen

G₁-phase block; Apoptosis; Colon cancer (Janssen, A. (540) 24)

Potential; Analgesia; Caffeine; PIFIR model (Medina López, J.R. (544) 31)

Anandamide; Endocannabinoids; Fatty-acid ethanolamides; Oleoylethanolamide; Palmitoylethanolamide; Cannabinoid receptors; Rofecoxib; Fatty-acid amide hydrolase; Nonsteroidal anti-inflammatory drugs; Capsazepine; Formalin test; Inflammatory pain (Guindon, J. (550) 68)

IC (Inspiratory Capacity)

Allergic inflammation; Forced expiratory maneuver; Forced oscillation; Edema; FRC (Functional Residual Capacity); FVC (Forced Vital Capacity); MMEF (Mean Mid-Expiratory Flow); Cchord; Lung parenchyma; Goblet cell; (Brown–Norway rat) (Celly, C.S. (540) 147)

ICAM-1

4-*O*-methylgallic acid; VCAM-1; NF- κ B; Endothelial cell (Lee, G. (551) 143)

Icatibant

LF 16-0687; Aminopeptidase N; Rabbit aorta; Bradykinin; Angiotensin (Bawolak, M.-T. (551) 108)

Icatibant (Hoe 140)

Bradykinin; B₂ receptor; Peristalsis; Ileum; FR173657 (Chan, S.K. (539) 108)

ICI 204,448

Wet-dog shakes; Icilin; Morphine; Buprenorphine; Nalfurafine; U50,488H; SNC 80 (Werkheiser, J.L. (547) 101)

Icilin

TRPM8; Menthol; Cold allodynia; Thermosensation; Canine (Liu, Y. (530) 23)

Wet-dog shakes; Morphine; Buprenorphine; ICI 204,448; Nalfurafine; U50,488H; SNC 80 (Werkheiser, J.L. (547) 101)

I-CLiP (intramembrane cleaving protease)

γ -Secretase inhibitor; SPP (single peptide peptidase) splice variant; S2P (Site-2 protease) cleavage; Reporter gene assay (Dev, K.K. (540) 10)

IFN- γ

(5R)-5-hydroxytryptolide; Immunosuppressive (Zhou, R. (537) 181)

IgE

Antiallergic drug; Nuclear factor-kappa B (NF- κ B); I kappa B alpha (I κ B α); Activation-induced cytidine deaminase (AID) (Hanashiro, K. (547) 174)

IGF-I (insulin-like growth factor-I)

TNF (tumor necrosis factor); PEG-sTNFRI (polyethylene glycol linked to soluble TNF receptor p55); GH (growth hormone); Arthritis; Adjuvant-induced (Granado, M. (536) 204)

I κ B [inhibitory kappa B]

WIN55212-2 [methanone mesylate]; IL-8 [interleukin-8]; NF- κ B [nuclear factor-kappa B]; cannabinoid; CB₂ receptor; HT-29 (Mormina, M.E. (540) 183)

I κ B kinase

Tanshinone IIA; Nuclear factor κ B; NF- κ B-inducing kinase; Mitogen-activated protein kinase; Lipopolysaccharide (Il Jang, S. (542) 1)

IKK

Asthma; COPD; Inhibitor; MAP kinase; Gene expression (Adcock, I.M. (533) 118)

I_{Kr}

Maprotiline; Acquired long QT syndrome; Arrhythmia; *HERG* potassium channel; Torsade de pointes; QT interval; Rapid delayed rectifier (Ferrer-Villada, T. (531) 1)

Prochlorperazine; Antiemetic drug; *HERG* channel; Long QT syndrome; Arrhythmias (Kim, M.-D. (544) 82)

IL-12

Cannabinoids; Vanilloid receptor; 2-arachidonoylglycerol; Dendritic cells (Lu, T. (532) 170)

IL-2

Systemic lupus erythematosus; (S)-armepavine; Splenocyte proliferation; Immune complex deposition; Anti-dsDNA autoantibody (Liu, C.-P. (531) 270)

IL-8 [interleukin-8]

WIN55212-2 [methanone mesylate]; I κ B [inhibitory kappa B]; NF- κ B [nuclear factor-kappa B]; cannabinoid; CB₂ receptor; HT-29 (Mormina, M.E. (540) 183)

IL-8/MIP-2

Chymase; Mast cell; Eosinophil; Neutrophil (Terakawa, M. (538) 175)

Ileum

Bradykinin; B₂ receptor; Peristalsis; FR173657; Icatibant (Hoe 140) (Chan, S.K. (539) 108)

Guinea pig; Tolerance; Dependence; Morphine; Lithium (Alborzi, A. (545) 123)

Imaging

Dexfenfluramine; Chronic hypoxia; Pulmonary hypertension; Valvulopathy; (Rat) (Rocheffort, G.Y. (550) 149)

Imatinib

Osteoclasts; Macrophage colony stimulating factor; Bone resorption; Apoptosis (El Hajj Dib, I. (551) 27)

Imatinib (Glivec®/STI571)

c-kit/CD117; Tyrosine-kinase cascade; Interstitial Cajal-like cell (Popescu, L.M. (546) 177)

Imidazoline

Agmatine; WIN 55212-2; Cannabinoid; Hypothermia; CB₁ (Rawls, S.M. (553) 89)

Imidazoline I₁ receptor

Opioid dependence; IRAS; Agmatine; Intracellular Ca²⁺ concentration; CREB phosphorylation; ERK phosphorylation; c-Fos expression (Wu, N. (548) 21)

Imidazoline receptors

Heart; Perfusion; Moxonidine; Atrial natriuretic peptide; α_2 -adrenoceptors (Mukaddam-Daheer, S. (541) 73)

Imidazoline site ligand

Insulin; MAO (Monoamine oxidase); SSAO (Semicarbazide-sensitive amine oxidase); Adipose tissue (Bour, S. (552) 20)

Imiloxan

BRL44408; Capsaicin; α -CGRP; External carotid vasodilatation; MK912 (Jiménez-Mena, L.R. (543) 68)

Imipramine

Neonatal treatment; Citalopram; Locomotor activity; Sexual behavior (Maciag, D. (532) 265)

Antidepressant; Dopamine; Mania; Motor activity; Quinpirole; Valproate (D'Aquila, P.S. (535) 208)

Fluvoxamine; Milnacipran; Carbamazepine; Writhing test; (Mouse) (Aoki, M. (550) 78)

Immediate early gene

Methamphetamine; Cocaine; Opioid peptide; Basal ganglia (Horner, K.A. (532) 61)

Immobility

Dizocilpine maleate; NMDA receptor antagonist; Locomotion; Catalepsy; Haloperidol (Tang, Y. (537) 77)

Immobilization stress

Cyclooxygenase; Naproxen; Rofecoxib; Oxidative stress (Dhir, A. (535) 192)

Immune complex deposition

Systemic lupus erythematosus; (S)-armepavine; Splenocyte proliferation; IL-2; Anti-dsDNA autoantibody (Liu, C.-P. (531) 270)

Immune response

Cancer; L-type Ca^{2+} channel; Verapamil; Walker 256 tumor (Degasper, G.R. (549) 179)

Immunoglobulin E

Allergic dermatitis; Hapten; Mouse; Scratching behavior; Interferon- γ ; Interleukin-4; Interleukin-5; Tacrolimus; Dexamethasone (Inagaki, N. (546) 189)

Immunoglobulin free light chain

Asthma; Hypersensitivity; Mast cell; Multiple sclerosis; Rheumatoid arthritis (van der Heijden, M. (533) 319)

Immunohistochemistry

Psychostimulant; Hypocretin; Fos; Nicotinic receptor; Rat (Pasumarthi, R.K. (535) 172)

Immunostimulation

Acyclic nucleotide analogues; HPMPA (9-[2-Hydroxy-3-(phosphonomethoxy)propyl]adenine); Nitric oxide; Cytokine (Potměšil, P. (540) 191)

Immunosuppressant

Phosphodiesterase 7A; Phosphodiesterase 4; Th-cell; Neutrophil; Cyclosporine; YM-393059 (Yamamoto, S. (550) 166)

Immunosuppressive

(5R)-5-hydroxytryptolide; IFN- γ (Zhou, R. (537) 181)

Impairment of learning and memory function

Cyclooxygenase-2; Aluminum overload; Meloxicam; Neuronal death; Amyloid beta; Choline acetyltransferase; Malondialdehyde (Jun-Qing, Y. (547) 52)

Impermeant triphenylethylene salts

Tamoxifen derivatives; Non-genomic effects; Uterine muscle; Intestinal muscle; Ca^{2+} channels (Marrero-Alonso, J. (532) 115)

Improgan

Analgesia; Pain; Cannabinoid; Cannabinoid CB_1 receptor; Tetrahydrocannabinol (Nalwalk, J.W. (549) 79)

'in situ' hybridisation

mGlu5 receptor; mRNA; [^3H]MPEP ligand binding; Reserpine; Rat; Parkinson's disease (Ismayilova, N. (545) 134)

Intracellular microelectrode recording

P2Y receptor; Enteric inhibitory neurotransmission; Calcium store; Calcium-dependent potassium channel; Mouse colon (Zizzo, M.G. (544) 174)

In situ hybridization

Acute tolerance; Neurosteroid; EEG threshold; Rat brain (Birzniece, V. (535) 125)

Neurons; D-serine; Serine racemase (Yoshikawa, M. (548) 74)

In vitro

Glutamate receptor antagonist; Antirheumatic drug; Synoviocyte; Proliferation (Parada-Turska, J. (535) 95)

Kynurenic acid; Kynurenine aminotransferase; Antiepileptic drug; Epilepsy; Brain (Kocki, T. (541) 147)

In vivo

Noradrenergic neurons; WIN 55212-2; CP 55940; Cannabinoid CB_1 receptors; Single-unit extracellular recordings; Slice (Mendiguren, A. (534) 83)

AP4 (L(+)-2-amino-4-phosphonobutanoic acid); LTD (Long-term depression); Histology; Hippocampus (Naie, K. (535) 104)

Dopamine D_2 -receptor occupancy; Raclopride; Dosage; Olanzapine; Risperidone (Naiker, D.V. (540) 87)

Antipsychotic; Intracranial self-stimulation; Reward; Specific receptor antagonists (Flagstad, P. (544) 69)

Nitric oxide; EDHF; Endothelium; Vasodilation; Nitric oxide synthase (Desai, K.M. (546) 120)

In vivo binding

GABA $_A$ receptor; $\alpha 5$ subunit; Benzodiazepine; RY-080; Proconvulsant (Atack, J.R. (548) 77)

In vivo microdialysis

Conditioned fear stress; Li_2CO_3 ; Serotonin; Noradrenaline; Clorgyline (Kitaichi, Y. (532) 236)

In vivo microdialysis

Anatoxin-a; Dopamine; Glutamatergic receptor; Nicotinic receptor; Nitric oxide; Striatum (Campos, F. (548) 90)

5-HT; Memory; Cognition; Water maze; Acetylcholine (Hirst, W.D. (553) 109)

Incretin hormone

Metformin; Dipeptidyl peptidase IV; Diabetes; Insulin (Green, B.D. (547) 192)

Indapamide

Pituitary cell; Voltage-dependent K^+ current; Apoptosis (Dong, D.-L. (536) 78)

Indirect calorimetry

Melanin-concentrating hormone; Obesity; Receptor antagonist (Kowalski, T.J. (535) 182)

Indomethacin

Glioma; Proliferation; COX; NSAID (Bernardi, A. (532) 214)

Nitric oxide; MK-801; L-NAME; Formalin test; Hyperalgesia (Tassorelli, C. (534) 103)

Fever; Nimesulide; Cyclooxygenase (Werner, M.F.P. (543) 181)

Gastric damage; ATP-sensitive potassium channels; Lipopolysaccharide (Gomes, A.S. (547) 136)

Stomach; Gastric; Mucous epithelial cell; Non-steroidal anti-inflammatory drug; Cyclooxygenase inhibitor (Kavvada, K.M. (549) 41)

Nonsteroidal anti-inflammatory drugs; Small intestine; Cyclooxygenase-1; Cyclooxygenase-2 (Menozi, A. (552) 143)

Infarct size

CGRP (calcitonin gene-related peptide); Ischemia/reperfusion; Left ventricular pressure; Coronary flow; Cardioprotection (Chai, W. (531) 246)

Infarction

Noradrenaline; Acetylcholine; Cytosolic calcium; Artery; Heart failure (Trautner, S. (537) 143)

Cytokine; Coronary disease; Stem cell; Restenosis (Li, Y. (549) 98)

Infection

Morphine; Opioid agonist; Intestinal transit; Osmotic minipump (Feng, P. (534) 250)

Inferior parietal lobule

Redox proteomics; Alzheimer's disease; Oxidative stress; Protein oxidation; Hippocampus (Butterfield, D.A. (545) 39)

Inflammation

PPAR- γ (peroxisome proliferator-activated receptor- γ); PPAR- γ agonist; Hippocampus; Ischemia/reperfusion; Oxidative stress (Collino, M. (530) 70)

Melanocortin; Cytokine; Chemokine; Myocardial ischaemia (Getting, S.J. (532) 138)

Ferulic acid; NCX 2057(3-(4-hydroxy-3-methoxyphenyl)-2-propenoic acid 4-(nitrooxy)butyl ester); Nitric oxide; NF- κ B (nuclear factor kappa-B); RAW 264.7 macrophages (Ronchetti, D. (532) 162)

Resveratrol; Pancreatitis; Scavenger; Rat (Szabolcs, A. (532) 187)

Glucocorticoid receptor; Transcription factor; Histone deacetylase; Histone acetyltransferase; Nuclear factor- κ B; Asthma; COPD (chronic obstructive pulmonary disease); Corticosteroid resistance (Barnes, P.J. (533) 2)

β -adrenoceptor; Airway; Bronchodilatation; Mucociliary clearance; Stereoisomerism; Genetic polymorphism (Broadley, K.J. (533) 15)

Histamine; T cell; B cell; Histamine receptor; Allergy; Asthma (Akdis, C.A. (533) 69)

PPAR γ ; Airway; Asthma (Belvisi, M.G. (533) 101)
Melanocortin; Cytokine; Chemokine; Myocardial ischaemia (Getting, S.J. (532) 138)

SCF (stem cell factor); Kit; Mast cell; Eosinophil; Asthma (Reber, L. (533) 327)

Leomycin; Dexamethasone; Pulmonary fibrosis (Chen, F. (536) 287)

Cannabinoid; 2-Arachidonoylglycerol; Cannabinoid receptor agonist; Cannabinoid receptor antagonist; Ear swelling (Oka, S. (538) 154)

Acute; Chronic; Inhibitor; Phospholipase A₂ (Malaviya, R. (539) 195)

TRPV1; Spinal cord; Glutamate; Synaptic transmission; Substantia gelatinosa (Lappin, S.C. (540) 73)

Analgesia; Hot-plate; Nociception; Rho-kinase; Writhing; Y-27632 (Büyükaşar, K. (541) 49)

A20; Influenza virus; NF- κ B; Bronchial epithelium (Onose, A. (541) 198)

Cordyceps militaris; Cordycepin; Macrophage; NO production; Lipopolysaccharide (LPS) (Kim, H.G. (545) 192)

Phyllanthus amarus; Niranthin; Lignan; Platelet activating factor receptor; (Rodent) (Kassuya, C.A.L. (546) 182)

Phosphodiesterase-4; PDE4D; Cilamifast; Dexamethasone; Cytokines; Goblet cell; Airways hyperresponsiveness; Asthma (Deng, Y.-m. (547) 125)

Riboflavin; Pain; Nociception; Edema; Fever; Fibrovascular tissue (Bertollo, C.M. (547) 184)

PARP [Poly (ADP-ribose) polymerase]; Pancreatitis; Adhesion molecules; Neutrophil infiltration (Mazzon, E. (549) 149)

Adenosine A₁ receptor; Asthma; Bronchial hyper-responsiveness; Airway; Allergen (Nadeem, A. (551) 116)

Lymphatic regeneration; Dexamethasone; Acetylsalicylic acid; Micronized purified flavonoid fraction (Greco, K.V. (551) 131)

Estrogen receptor beta; Pain (Leventhal, L. (553) 146)

Inflammatory cytokine

NO-1886; Atherosclerosis; Diabetes mellitus (Cai, M. (540) 139)

Chroman carboxamide; Interleukin-6; Nuclear factor- κ B; Lipopolysaccharide; Macrophage (Hak Kim, B. (543) 158)

Inflammatory mediator

Cardamonin; *Alpinia rafflesiana*; RAW 264.7; Whole blood (Ahmad, S. (538) 188)

Inflammatory pain

Benfotiamine; Neuropathy; Diabetes (Sánchez-Ramírez, G.M. (530) 48)

Anandamide; Endocannabinoids; Fatty-acid ethanolamides; Oleoylethanolamide; Palmitoylethanolamide; Cannabinoid receptors; Rofecoxib; Ibuprofen; Fatty-acid amide hydrolase; Nonsteroidal anti-inflammatory drugs; Capsazepine; Formalin test (Guindon, J. (550) 68)

Influenza virus

A20; NF- κ B; Bronchial epithelium; Inflammation (Onose, A. (541) 198)

Infraorbital nerve

Allodynia; Analgesia; Spinal cord injury pain; Hyperalgesia; Trigeminal neuralgia; Lacosamide (Hao, J.-X. (553) 135)

Inhibition

Neurotransmitter; Behavior (Deschaux, O. (535) 177)

Cholinergic; Nicotinic receptor; Associative learning (MacLeod, J.E. (551) 76)

Andrographis paniculata; Diterpenoids; Aggregation; Thrombin; ERK1/2 (Thisoda, P. (553) 39)

Inhibitor

Asthma; COPD; MAP kinase; IKK; Gene expression (Adcock, I.M. (533) 118)

Inflammation; Acute; Chronic; Phospholipase A₂ (Malaviya, R. (539) 195)

Hypercholesterolemia; Pactimibe; ACAT (Acyl-coenzyme A:cholesterol acyltransferase) (Kitayama, K. (543) 123)

Inhibitory nonadrenergic noncholinergic nerve

Airway hyperresponsiveness; Airway smooth muscle; Allergic asthma; Arginine; Argininosuccinate lyase; Argininosuccinate synthase; Citrulline; Guinea pig; Nitric oxide synthase (Maarsingh, H. (546) 171)

Inorganic phosphate

Mineralization; Calcification; Sodium nitroprusside; Iron ion (Huitema, L.F.A. (542) 48)

iNOS (inducible nitric oxide synthase)

eNOS (endothelial nitric oxide synthase); COX-2 (cyclooxygenase-2); *N*-(3-(aminomethyl)benzyl)acetamidine (1400W); L-NAME (*N*^G-nitro-L-arginine methyl ester); NF- κ B (nuclear transcription factor κ B) (Guo, J.S. (536) 301)

A549 cell; Arachidonic acid; Ca²⁺ mobilization; Diadenosine polyphosphate (Laubinger, W. (543) 1)

Inosine

Mizoribine; Inosinic acid; Intestinal absorption; N1 transporter (Okada, M. (531) 140)

Inosinic acid

Mizoribine; Inosine; Intestinal absorption; N1 transporter (Okada, M. (531) 140)

Inositol phosphate signalling

Asthma; Airway smooth muscle; β_2 -adrenoceptor agonist (Sayers, I. (531) 9)

Inotropism

Angiotensin II; Endocardial endothelium; Endothelin-1; Myocardium (Castro-Chaves, P. (544) 91)

Insulin

Puerarin; Oxidative stress; Pancreatic islet; Apoptosis (Fu-Liang, X. (529) 1)

Corpus cavernosum; Relaxation; Prostacyclin; Ca^{2+} channel (Myung, S.C. (536) 142)

(–)-Epigallocatechin-3-gallate; Oxygen free radical; Streptozotocin; Glucose (Yun, S.-Y. (541) 115)

Metformin; Dipeptidyl peptidase IV; Diabetes; Incretin hormone (Green, B.D. (547) 192)

Dipeptidyl peptidase-IV; Dipeptidyl peptidase 8; Dipeptidyl peptidase 9; Glucagon-like Peptide-1 (Yasuda, N. (548) 181)

Imidazoline site ligand; MAO (Monoamine oxidase); SSAO (Semicarbazide-sensitive amine oxidase); Adipose tissue (Bour, S. (552) 20)

Insulin resistance

Cisplatin; Sensory neuropathy (Szilvássy, J. (531) 217)

Diabetic nephropathy; Peroxisome proliferator-activated receptor γ ; YM440; Zucker fatty rat; Hyperlipidemia (Nakano, R. (549) 185)

Insulin secretion

Resveratrol; Pancreatic islet (Szkudelski, T. (552) 176)

Gasfloxacin; Hypoglycemia; Hyperglycemia; Islet insulin content; K_{ATP} (ATP-sensitive K^+) channel (Yamada, C. (553) 67)

Insulin-like growth factor-1

Ghrelin; Gastric growth; Growth hormone; Food intake; Body weight gain (Warzecha, Z. (529) 145)

Interaction index

ACEA (Arachidonyl-2'-chloroethylamide); Cannabinoid CB_1 receptor; Chimney test; Isobolographic transformation; Maximal electroshock; Neuromuscular grip strength; Pharmacokinetic interaction; Protective index; Valproic acid (Luszczki, J.J. (547) 65)

Interferon- γ

Allergic dermatitis; Hapten; Mouse; Scratching behavior; Immunoglobulin E; Interleukin-4; Interleukin-5; Tacrolimus; Dexamethasone (Inagaki, N. (546) 189)

Interleukin

MAP kinase; Adrenergic agonist; Vasoconstriction (Seto, S.W. (531) 238)

Interleukin 8

Neutrophil; Cannabinoid; Transmigration; Chemotaxis (Nilsson, O. (547) 165)

Interleukin-1 β

Dihydrocucurbitacin B; Adjuvant-induced arthritis; Nitric oxide synthase; Cyclooxygenase; Tumor necrosis factor- α (Escandell, J.M. (532) 145)

Adenosine; Ca^{2+} -induced Ca^{2+} releasing system; Neuroprotection; Neurodegeneration; Hippocampus (Zhu, G. (532) 246)

Cinnamaldehyde; Rat cerebral microvascular endothelial cell; Cyclooxygenase; Prostaglandin E_2 ; Real-time RT-PCR (Guo, J.-Y. (537) 174)

Norfloxacin; Biphenylacetic acid; Convulsion; (Rats) (Zhang, L.-r. (543) 21)

Interleukin-2

Phosphodiesterase 7A; Phosphodiesterase 4; Tumor necrosis factor- α ; T-cell; YM-393059; YM976 (Yamamoto, S. (541) 106)

Interleukin-4

Allergic dermatitis; Hapten; Mouse; Scratching behavior; Immunoglobulin E; Interferon- γ ; Interleukin-5; Tacrolimus; Dexamethasone (Inagaki, N. (546) 189)

Interleukin-5

Allergic dermatitis; Hapten; Mouse; Scratching behavior; Immunoglobulin E; Interferon- γ ; Interleukin-4; Tacrolimus; Dexamethasone (Inagaki, N. (546) 189)

Interleukin-6

Minocycline; Neuropathic pain; Hyperalgesia; Allodynia (Zanjani, T.M. (538) 66)

ATP; UTP; P2Y receptor; HaCaT cell; Keratinocyte (Yoshida, H. (540) 1)

Protective effect; Acute phase protein; Liver injury; ME3738 (Kuzuhara, H. (541) 205)

Chroman carboxamide; Inflammatory cytokine; Nuclear factor- κB ; Lipopolysaccharide; Macrophage (Hak Kim, B. (543) 158)

Intermedin

Isoproterenol; Calcitonin receptor-like receptor; Receptor-activity-modifying protein; cAMP (Jia, Y.-X. (549) 117)

Intermittent claudication

Beraprost sodium; Walking disturbance (Miyamoto, M. (545) 173)

Internal mammary artery

Omeprazole; Lansoprazole; Radial artery; Vascular smooth muscle tone; Relaxation (Naseri, E. (531) 226)

Interpeduncular nucleus

18-Methoxycoronaridine; α -Conotoxin AulB; Mecamylamine; Morphine; Medial habenula; Nicotine receptors; Drug addiction (Glick, S.D. (537) 94)

Interstitial Cajal-like cell

Imatinib (Glivec®/STI571); c-kit/CD117; Tyrosine-kinase cascade (Popescu, L.M. (546) 177)

Intestinal absorption

Mizoribine; Inosine; Inosinic acid; N1 transporter (Okada, M. (531) 140)

Intestinal efflux

Multidrug resistance-associated protein 2; 2,4-Dinitrophenyl-S-glutathione; CCl_4 -induced acute hepatic failure; Hyperbilirubinemia (Yokooji, T. (546) 152)

Intestinal growth

GLP-2 receptor; $\text{G}\alpha$ protein signalling; RT-PCR; Western blot; cAMP (Sams, A. (532) 18)

Intestinal injury

Angiotensin II type I receptor antagonist; Angiotensin II; Ischemia; Reperfusion (Takagi, T. (535) 283)

Intestinal muscle

Tamoxifen derivatives; Impermeant triphenylethylene salts; Non-genomic effects; Uterine muscle; Ca^{2+} channels (Marrero-Alonso, J. (532) 115)

Intestinal transit

Morphine; Opioid agonist; Infection; Osmotic minipump (Feng, P. (534) 250)

Intestine

Capsaicin; Capsazepine; Myosin light chain; K⁺ channel (Fujimoto, S. (530) 144)

Purinergic receptor; ATP; Enteric nervous system; Secretion (Fang, X. (536) 113)

Lipopolysaccharide (LPS); Pregnane X receptor; Retinoid X receptor; Cytochrome P450 3A (CYP3A); Erythromycin *N*-demethylase (ERND) (Xu, D.-X. (536) 162)

Intimin

Type III secretion system; Mucosa-adherent bacterium; Norepinephrine; Cocaine; Enteric nervous system (Chen, C. (539) 116)

Intracavernous pressure

Erectile dysfunction; Hydrogen sulphide; Corpus cavernosum; Primate; (Rat) (Srilatha, B. (535) 280)

Intracellular Ca²⁺

Guinea pig right atria; Langendorff hearts; Positive inotropic effect; Green tea catechin; NO release; Pimobendan (Hotta, Y. (552) 123)

Intracellular Ca²⁺ concentration

Opioid dependence; IRAS; Imidazoline I₁ receptor; Agmatine; CREB phosphorylation; ERK phosphorylation; c-Fos expression (Wu, N. (548) 21)

Intracellular calcium

Bone marrow; Erythroblast; P2Y₁ receptor; CaMKII; PKC (Paredes-Gamero, E.J. (534) 30)

Nitric oxide; Artery; Human; Acetylcholine (Buus, N.H. (535) 243)

Intracellular calcium concentration

Donepezil; Acetylcholinesterase inhibitor; Glutamate excitotoxicity; LDH release; Primary cultured cerebral cortical neurons (Akasofu, S. (530) 215)

Intracellular calcium flux

Aplindore; Dopamine D₂ receptor; Chimeric G_{αq/o}-protein; ERK-phosphorylation; [³⁵S]GTPγS; Unilaterally 6-hydroxydopamine lesioned rat (Heinrich, J.N. (552) 36)

Intracerebroventricular

NMDA; Nitric oxide synthase; Neuroprotection (Kitto, K.F. (536) 133)

Intracerebroventricular injection

(–)-Epigallocatechin gallate; γ-Aminobutyric acid receptor; Brain; (Chick) (Adachi, N. (531) 171)

Intracranial self-stimulation

Antipsychotic; In vivo; Reward; Specific receptor antagonists (Flagstad, P. (544) 69)

Intrahippocampal injection

5-HT₇ receptor antagonist; Drinking conflict test; Forced swimming test; (Rat) (Wesołowska, A. (553) 185)

Intraocular pressure

Pupil diameter; Opioid receptors; Morphine; Nitric oxide (Bonfiglio, V. (534) 227)

Intraurethral pressure

Tamsulosin; α₁-Adrenoceptor; Premicturition contraction; Bladder outlet obstruction (Ohtake, A. (545) 185)

Intravenous administration

Cyclic phosphatidic acid; Respiration; Vagus; Carotid sinus nerve (Hotta, H. (543) 27)

Inverse agonist

Adenylyl cyclase; Constitutive activity; Splice variant; Resensitization (Krobert, K.A. (532) 1)

Neutral antagonist; Medicinal chemistry; Structure activity relationship (Greasley, P.J. (553) 1)

Inward rectifier K⁺ channel

Carvedilol; β-Adrenoceptor blocking agent; Bundle crossing (Kikuta, J.-i. (529) 47)

Ion channel

Lamotrigine; Levetiracetam; Delayed depolarization; Compound action potential; Antiepileptic drug (Guyen, M. (553) 129)

Ionotropic purinergic receptor

Cough reflex; Histamine; Histamine H₁ receptor; ATP; Rapidly adapting receptor (Kamei, J. (547) 160)

Ipratropium

Muscarinic receptor; Antimuscarinic agent; COPD (Chronic Obstructive Pulmonary disease); Asthma; Tiotropium (Gross, N.J. (533) 36)

IPSC

GABA_A receptors; Substantia gelatinosa; Propofol; Midazolam; Patch clamp; (Mouse) (Takahashi, A. (553) 120)

IRAS

Opioid dependence; Imidazoline I₁ receptor; Agmatine; Intracellular Ca²⁺ concentration; CREB phosphorylation; ERK phosphorylation; c-Fos expression (Wu, N. (548) 21)

Iris sphincter

Formoterol; BRL 37344; Ciliary muscle; cAMP; cGMP; Relaxation (Topalkara, A. (548) 144)

IRL1620 {Suc-[Glu⁹,Ala¹¹,Ala¹⁵]ET-1-(8–21)}

BMS182874 (5-(dimethylamino)-*N*-(3,4-dimethyl-5-isoxazolyl)-1-Naphthalenesulfonamide); Morphine; Analgesia; Gastrointestinal transit; Central nervous system; Endothelin; (Mice) (Matwyshyn, G.A. (543) 48)

Iron

Mangiferin; Polyphenols; Superoxide scavenging; Cytoprotection (Pardo-Andreu, G.L. (547) 31)

Iron chelation

Human hepatocyte; Cell proliferation; Polyamine metabolism (Chantrel-Groussard, K. (541) 129)

Iron (III)

Desferrioxamine; 1-Methyl-4-phenylpyridinium ion (MPP⁺); Hydroxyl radical; Parkinson's disease (Obata, T. (539) 34)

Iron ion

Mineralization; Calcification; Sodium nitroprusside; Inorganic phosphate (Huitema, L.F.A. (542) 48)

Iron overload

Liver; Flavonoids; Baicalin; Quercetin; Oxidation (Zhang, Y. (535) 263)

Irradiation

Malignant glioma treatment; Temozolomide; Tissue remodelling; Metalloproteinases; Tumour invasiveness; Proteomics (Trog, D. (542) 8)

Ischemia

KR-33028; Cardioprotective effects; Na⁺/H⁺ exchanger; Hypoxia (Jung, Y.-S. (535) 220)

Angiotensin II type I receptor antagonist; Angiotensin II; Intestinal injury; Reperfusion (Takagi, T. (535) 283)

σ_1 receptors; Retina; Neuroprotection; Adamantane derivative (Bucolo, C. (536) 200)

Acetylcholine; Adenosine; Myocyte; Postconditioning (Lu, J. (549) 133)

Hemodynamics; Remodeling; Transgenic animal models (Koch, M. (550) 143)

Cortical neurons; Excitotoxicity; Glutamate receptors; Cytoplasmic calcium; MAPK [mitogen-activated protein kinase]; Swelling (Franceschini, D. (553) 18)

Ischemia and re-perfusion

Furindipine; Arrhythmias; Cardio-protection; (Rat) (Krzemiński, T.F. (549) 91)

Ischemia and reperfusion damage

Antioxidant effect; Ginsenoside Re; ESR spectroscopy; Cardiomyocyte; Antimycin A; H_2O_2 (Xie, J.-T. (532) 201)

Ischemia-reperfusion

Mitiglinide; Sulfonyleureas; K_{ATP} channel; Cardiac function; Coronary perfusion flow (Maruyama, I. (531) 194)

Allopurinol; Xanthine oxidase; Reactive oxygen species production; Ca^{2+} overload (Kang, S.-M. (535) 212)

Heart; Sodium–calcium exchanger; Mitochondria; SEA0400 (Namekata, I. (543) 108)

Ischemia/reperfusion

PPAR- γ (peroxisome proliferator-activated receptor- γ); PPAR- γ agonist; Hippocampus; Oxidative stress; Inflammation (Collino, M. (530) 70)

CGRP (calcitonin gene-related peptide); Left ventricular pressure; Coronary flow; Infarct size; Cardioprotection (Chai, W. (531) 246)

Ischemia–reperfusion

Dofetilide; Potassium; Delayed outward rectifier; (Guinea-pig) (Ducroq, J. (532) 279)

Ghrelin; Nitric oxide; Calcitonin gene related peptide; Gastric blood flow; Angiogenesis; Hypoxia inducible factor-1 alpha (Konturek, P.C. (536) 171)

Ischemic skin flap

Nicorandil; K_{ATP} channel; Survival rate (Qi, Z. (550) 127)

Ischemic stroke

Learning and memory; Hippocampal damage; Melanocortins; Therapeutic window; (Mongolian gerbil) (Giuliani, D. (538) 48)

Islet insulin content

Gatifloxacin; Hypoglycemia; Hyperglycemia; Insulin secretion; K_{ATP} (ATP-sensitive K^+) channel (Yamada, C. (553) 67)

Isobolographic analysis

Vascular smooth muscle; Drug combination; Sirolimus (Parry, T.J. (532) 38)

Isobolographic transformation

ACEA (Arachidonyl-2'-chloroethylamide); Cannabinoid CB_1 receptor; Chimney test; Interaction index; Maximal electroshock; Neuromuscular grip strength; Pharmacokinetic interaction; Protective index; Valproic acid (Luszczki, J.J. (547) 65)

Isoflurane

Preconditioning; Oxygen-glucose deprivation; Extracellular signal-regulated kinase; Early growth response gene 1; Bcl-2 (Zuo, Z. (542) 84)

Gene expression; Nitrous oxide; Anesthesia; Hippocampus; (Rat) (Culley, D.J. (549) 71)

Isolated heart

Hemodynamics; Volatile anesthetic; Ventricular function (Sigg, D.C. (543) 97)

Isolated tissue

Nociceptin/orphanin FQ; NOP receptor; Ac-RYYRIK-ol; Behavioral assay; (Mice) (Gündüz, Ö. (539) 39)

Isomer

Conjugated linoleic acid; Conjugated nonadecadienoic acid; Cyclooxygenase; Platelet aggregation (Li, G. (545) 93)

8-Isoprostane

Mast cell; Aspirin (Mortaz, E. (543) 190)

Isoprostanes

Asthma; Chronic obstructive pulmonary disease; Prostanoid (Rolin, S. (533) 89)

Isoproterenol

Adrenoceptor; Cyclic AMP; Epinephrine; Triacylglycerol; VLDL (Rasouli, M. (545) 109)

Intermedin; Calcitonin receptor-like receptor; Receptor-activity-modifying protein; cAMP (Jia, Y.-X. (549) 117)

Isorhamnetin

Endothelial cell; Lectin-like low-density lipoprotein receptor; Oxidized low-density lipoprotein; p38MAPK (Bao, M. (547) 22)

Itch

Atopic dermatitis; Skin barrier dysfunction; Hairless mice (Fujii, M. (530) 152)

Nafamostat mesilate; Tryptase; PAR-2 receptor; Scratching; (Mouse) (Ui, H. (530) 172)

Histamine; Pyrilamine; PAR2 (proteinase-activated receptor-2) (Shimada, S.G. (530) 281)

Itch-associated response

Cannabinoid CB_2 receptor; NC mouse (Maekawa, T. (542) 179)

Bepotastine besilate; Substance P; Leukotriene B_4 ; Histamine; Serotonin; Zileuton (Andoh, T. (547) 59)

Jaw movement

Dopamine D_1 -like receptor; Cyclase-coupled; Dopamine D_1 -like receptor; Non-cyclase-coupled; Dopamine D_1 -like: D_2 -like receptor interaction; Orofacial movement; SK&F 83822; SK&F 83959; (Rat) (Fujita, S. (538) 94)

Jumping

Morphine; ATP-dependent K^+ channel; Diarrhea; (Mouse) (Zarrindast, M.-R. (552) 90)

Jurkat T lymphocyte

Mitotic catastrophe; Transcriptome; WP631; Anthracycline; p53 (Mansilla, S. (540) 34)

K^+ channel

Capsaicin; Capsazepine; Intestine; Myosin light chain (Fujimoto, S. (530) 144)

Sildenafil; Relaxation; Nitric oxide; Protein kinase G; Penile resistance artery (Prieto, D. (531) 232)

Cl^- channel; Histamine; Rat colon (Schultheiss, G. (546) 161)

K⁺ channel opener

Gabapentin; Neuropathic pain; Nitric oxide; Guanylyl cyclase; Protein kinase G; Diazoxide; Pinacidil (Mixcoatl-Zecuatl, T. (531) 87)

K562

Palladacycle; *Bcl-2/Bax*; Apoptosis; Lysosomes; Acridine orange (Barbosa, C.M.V. (542) 37)

Kaempferol

Apoptosis; 7 β -hydroxycholesterol; Vascular smooth muscle (Ruiz, E. (529) 79)

Kappa opioid receptor

Salvinorin A; Antinociception (John, T.F. (545) 129)

K_{ATP} (ATP-sensitive K⁺) channel

Gatifloxacin; Hypoglycemia; Hyperglycemia; Insulin secretion; Islet insulin content (Yamada, C. (553) 67)

K_{ATP} channel

Mitiglinide; Sulfonylureas; Ischemia-reperfusion; Cardiac function; Coronary perfusion flow (Maruyama, I. (531) 194)

Nicorandil; Ischemic skin flap; Survival rate (Qi, Z. (550) 127)

KB-R7943

Arrhythmia; Na⁺/Ca²⁺ exchange; Endogenous inhibitor (Shpak, B. (553) 196)

K_{Ca}2 channels

Galantamine; Catecholamines; Chromaffin cell; Apamin (Alés, E. (548) 45)

KCNQ1

QT prolongation; HERG; Patch-clamp; Estradiol (Möller, C. (532) 44)

Keratinocyte

ATP; UTP; P2Y receptor; HaCaT cell; Interleukin-6 (Yoshida, H. (540) 1)

Ketamine

Etomidate; Thiopental; Proconvulsant; Glutamate; Excitatory amino acid transporter type 3; Voltage clamp; *Xenopus* oocyte (Yun, J.-Y. (531) 133)

Acetylcholine; Nicotinic receptor; Microdialysis; Spinal cord (Abelson, K.S.P. (534) 122)

D-Amino acid oxidase; Anesthetics; NMDA receptor; Schizophrenia; Serine racemase (Takeyama, K. (540) 82)

7-Ketocholesterol

Adhesion molecule; Calcium channel blocker; Endothelial cell; Reactive oxygen species (Naito, Y. (546) 11)

Kidney

Diabetes; Cyclooxygenase; L-NAME; (Rat) (Chen, Y.-J. (541) 80)

Amantadine; Ammonium ion; Bicarbonate; Organic cation transport (Goralski, K.B. (541) 87)

Kinase

Adenylate cyclase; Cyclic AMP; G protein-coupled receptor; Signaling (Beazely, M.A. (535) 1)

Kindling

AMPA receptor antagonists; YM872; Epileptogenesis; (Rat) (Hara, H. (531) 59)

Kinin

Airway inflammation; Animal model; Asthma; Therapy (Abraham, W.M. (533) 215)

Kit

SCF (stem cell factor); Inflammation; Mast cell; Eosinophil; Asthma (Reber, L. (533) 327)

Knock-out mice

Morphine; Tramadol; Buprenorphine; Fentanyl; Antinociception; μ -opioid peptide receptor; α_2 -adrenoceptor (Özdoğan, Ü.K. (529) 105)

Knockout mice

Antianalgesia; Analgesia; Opioid; Spinal cord (Wu, H.-e. (531) 103)

Opioid receptor antagonist; Food intake; Body weight (Zhang, J. (545) 147)

Knockout mouse

GABA_A; δ -subunit; THIP (Boehm, S.L. (541) 158)

 κ -opioid receptor

Planaria; Schild (*pA*₂) analysis (Raffa, R.B. (540) 200)

Chronic desipramine treatment; α_2 -adrenoceptor; μ -opioid receptor; Sympathetic innervation; Myenteric plexus (Canciani, L. (553) 269)

 κ -Opioid receptors

Oxycodone; Diabetes; Hyperalgesia; Antinociception (Nozaki, C. (535) 145)

KR-31378

Cell hypertrophy; Congestive heart failure; Myocardial infarction; ATP-sensitive potassium channel (Hwang, G.S. (540) 131)

KR-33028

Cardioprotective effects; Na⁺/H⁺ exchanger; Hypoxia; Ischemia (Jung, Y.-S. (535) 220)

K_V potassium channels

Histamine; Myogenic tone; Endothelium; Rat cerebral artery (Jarajapu, Y.P.R. (547) 116)

K_V1.6 potassium channel

Diabetes; Methylamine; Alpha-aminoguanidine; Hyperphagia; Semicarbazide-sensitive benzylamine oxidase activity (Cioni, L. (529) 179)

Kynurenic acid

Kynurenine aminotransferase; Antiepileptic drug; Epilepsy; In vitro; Brain (Kocki, T. (541) 147)

Kynurenine aminotransferase

Kynurenic acid; Antiepileptic drug; Epilepsy; In vitro; Brain (Kocki, T. (541) 147)

L- and D-S-nitrosocysteine

Nitric oxide; Vagal afferents (Lewis, S.J. (531) 254)

L-732,138

Tachykinin NK₁ receptor antagonist; Substance P; Antigen; Sensitization; EEG (Electroencephalogram) spike; Olfactory bulb; Cyproheptadine; Olopatadine; Epinastine (Rahman, M.A. (532) 155)

L- α -Amino acid

Family C of G protein-coupled receptor; Goldfish receptor 5.24; GPRC6A (Christiansen, B. (536) 98)

Lacosamide

Allodynia; Hyperalgesia; Anticonvulsant drug; Diabetic neuropathy; Neuropathic pain (Beyreuther, B. (539) 64)

Allodynia; Analgesia; Spinal cord injury pain; Hyperalgesia; Infraorbital nerve; Trigeminal neuralgia (Hao, J.-X. (553) 135)

Lamotrigine

Levetiracetam; Ion channel; Delayed depolarization; Compound action potential; Antiepileptic drug (Güven, M. (553) 129)

Langendorff heart

Mitochondrial K_{ATP} channel; 5-HT_{1A} receptor antagonist; Spectroscopy; MPTP (mitochondrial permeability transition pore); Apoptosis (Huang, L. (534) 165)

Langendorff hearts

Guinea pig right atria; Positive inotropic effect; Green tea catechin; NO release; Intracellular Ca^{2+} ; Pimobendan (Hotta, Y. (552) 123)

Lansoprazole

Omeprazole; Internal mammary artery; Radial artery; Vascular smooth muscle tone; Relaxation (Naseri, E. (531) 226)

L-cis-diltiazem

Prostaglandin E₂; Endothelial cell; Thapsigargin; Dibutyryl cAMP; 8-bromo-cGMP; Cyclic nucleotide gated channel (Shalom, R. (543) 8)

LDH release

Donepezil; Acetylcholinesterase inhibitor; Glutamate excitotoxicity; Intracellular calcium concentration; Primary cultured cerebral cortical neurons (Akasofu, S. (530) 215)

LDL

Myeloperoxidase; Captopril; ACE inhibitor; Apolipoprotein B-100 (Van Antwerpen, P. (537) 31)

L-DOPA

Tetrahydrobiopterin; Nitric oxide (Abreu-González, P. (541) 33)

LDT/PPT nuclei

DOI; EMD 281014; 5-HT_{2A} receptor; 5-HT_{2C} receptor; GABA; REM sleep; SB-243213; Serotonin; Slow wave sleep; Waking; (Rat) (Monti, J.M. (553) 163)

Learning

Melatonin; Vitamin E; Diabetes; Memory (Tuzcu, M. (537) 106)

Learning and memory

Running; Morphine (Alaei, H. (536) 138)

Ischemic stroke; Hippocampal damage; Melanocortins; Therapeutic window; (Mongolian gerbil) (Giuliani, D. (538) 48)

Lectin-like low-density lipoprotein receptor

Isorhamnetin; Endothelial cell; Oxidized low-density lipoprotein; p38MAPK (Bao, M. (547) 22)

Left ventricular pressure

CGRP (calcitonin gene-related peptide); Ischemia/reperfusion; Coronary flow; Infarct size; Cardioprotection (Chai, W. (531) 246)

Leomycin

Dexamethasone; Inflammation; Pulmonary fibrosis (Chen, F. (536) 287)

Leptin

2-aminopurine; STAT3 (Signal transducer and activator of transcription 3); ERK (Extracellular signal-regulated kinase); PKR (Double-strand RNA-activated protein kinase); Ob-Rb leptin receptor (Hosoi, T. (553) 61)

Leukemia

Apoptosis; Differentiation; Histone deacetylase inhibitor; Transcription factors (Savickiene, J. (549) 9)

Leukocyte activation

Cardiovascular ischemia; COX-1/COX-2-dependent TxA_2 ; Licofelone (Rotondo, S. (546) 95)

Leukotriene

Asthma; Allergic rhinitis; Glucocorticosteroid; Bronchoprovocation (Dahlén, S.-E. (533) 40)

Leukotriene B₄

Bepotastine besilate; Itch-associated response; Substance P; Histamine; Serotonin; Zileuton (Andoh, T. (547) 59)

Leukotriene receptor antagonist

Pranlukast; Cold injury; Brain oedema; Blood–brain barrier; Neuroprotection (Qian, X.-D. (549) 35)

Levetiracetam

Antiepileptic; Binding; Human brain; SV2A (Gillard, M. (536) 102)

Lamotrigine; Ion channel; Delayed depolarization; Compound action potential; Antiepileptic drug (Guyen, M. (553) 129)

Levocetirizine

Histamine H₁ receptor; Antihistamine; Binding; Desloratadine; Fexofenadine (Gillard, M. (530) 205)

Levofloxacin

Hyperglycemia; Hypoglycemia; Epinephrine; Histamine; (Rat) (Ishiwata, Y. (551) 168)

LF 16-0687

Icatibant; Aminopeptidase N; Rabbit aorta; Bradykinin; Angiotensin (Bawolak, M.-T. (551) 108)

L-Histidine

Cerebral ischemia; Gerbil; Histamine; Histamine H₃ receptor; Hypothermia; Thioperamide (Adachi, N. (546) 69)

Li₂CO₃

In vivo microdialysis; Conditioned fear stress; Serotonin; Noradrenaline; Clorgyline (Kitaichi, Y. (532) 236)

Licofelone

Cardiovascular ischemia; COX-1/COX-2-dependent TxA_2 ; Leukocyte activation (Rotondo, S. (546) 95)

Lidocaine

Voltage dependent sodium channel; Tolperisone; *Xenopus laevis* oocyte; Local anesthetic (Hofer, D. (538) 5)

Tramadol; Nerve injury; Delayed depolarization; Slow sodium currents; Hyperpolarizing afterpotential (Mert, T. (543) 54)

Ligand-gated ion channel

Capsaicin; Anandamide; Protons; TRPV1 (transient receptor potential vanilloid 1); Pain (Bianchi, B.R. (537) 20)

Light–dark transition test

Agmatine; Anxiolytic; Social interaction; Vogel's drinking conflict test; Animal models (Gong, Z.-H. (550) 112)

Lignan

Phyllanthus amarus; Niranthin; Inflammation; Platelet activating factor receptor; (Rodent) (Kassuya, C.A.L. (546) 182)

Ligusticum chuanxiong

Butyridenephthalide; Smooth muscle relaxation; Calcium; Endothelium (Chan, S.S.-K. (537) 111)

Ligustilide

Vascular smooth muscle cell; Mitogen activated protein kinase (Lu, Q. (542) 136)

Limited access alcohol drinking

Clozapine; Olanzapine; Dopamine; Atypical antipsychotic drug; Selectively bred rat line (Ingman, K. (534) 133)

Lipid metabolism

Human growth hormone; Resistance exercise; (Aged female rat) (Yang, J.-Y. (539) 99)

Lipid peroxidation

Cisplatin; Enzymatic antioxidant; Hepatotoxicity (Pratibha, R. (532) 290)

1,4-Dihydropyridine; Antioxidants; Malondialdehyde; 4-Hydroxynonenal; Hepatoprotection (Borovic, S. (537) 12)

Hypoxic hypoxia; Melatonin; Oxidative stress; Liver (El-Sokkary, G.H. (540) 107)

β -glucan; Glutathione; Myeloperoxidase activity; TNF- α ; Apoptosis (Şener, G. (542) 170)

Acetaminophen; β -glucan; Glutathione; Oxidative injury; Tumour necrosis factor- α (Toklu, H.Z. (543) 133)

Terazosin; Thyroid hormone; Hyperlipidemia; Hyperglycemia (Jatwa, R. (551) 87)

Lipid peroxide

Diabetes; Renal injury; Hyperglycemia; Hyperlipidemia (Yoshida, M. (548) 174)

Lipid profile

N-Acetylcysteine; Sucrose; Glycaemia; Oxidative stress (Diniz, Y.S. (543) 151)

Lipid raft

G protein coupled receptor; SB269970; Serotonin; 5-HT₇ receptor; Cholesterol (Sjögren, B. (552) 1)

Lipoic acid

Cyclophosphamide; Hyperlipidemia; Serum; Heart (Mythili, Y. (543) 92)

Lipopolysaccharide

Allergy; Asthma; Bacterial extract; CpG motif; Hygiene hypothesis; Mycobacteria; Probiotics; T helper cell; Toll-like receptors; T regulatory cells (Feleszko, W. (533) 308)

Bicyclol; Acute hepatic failure; D-galactosamine (Wang, H. (534) 194)

Prostaglandin; Cyclooxygenase; Nitric oxide synthase; Uterus (Cella, M. (534) 218)

Azithromycin; Pulmonary neutrophilia; Septic shock; TNF- α (Ivetić Tkalević, V. (539) 131)

Protein kinase B; Human gingival fibroblast; Mitogen-activated protein; Luteolin; Nitric oxide; Nitric oxide synthase (Gutiérrez-Venegas, G. (541) 95)

Nitric oxide; Mitogen-activated kinase phosphatase-1; Cyclooxygenase-2; Signal transduction; RAW 264.7 macrophage; Anti-inflammatory effect (Chen, T.-H. (541) 138)

Tanshinone IIA; Nuclear factor κ B; NF- κ B-inducing kinase; I κ B kinase; Mitogen-activated protein kinase (Il Jang, S. (542) 1)

Chroman carboxamide; Interleukin-6; Inflammatory cytokine; Nuclear factor- κ B; Macrophage (Hak Kim, B. (543) 158)

Bradykinin; Prostaglandin E₂; Glial cell (Levant, A. (546) 197)
Indomethacin; Gastric damage; ATP-sensitive potassium channels (Gomes, A.S. (547) 136)

Lipopolysaccharide (LPS)

Pregnane X receptor; Retinoid X receptor; Cytochrome P450 3A (CYP3A); Erythromycin *N*-demethylase (ERND); Intestine (Xu, D.-X. (536) 162)

Cordyceps militaris; Cordycepin; Macrophage; Inflammation; NO production (Kim, H.G. (545) 192)

Lipoprotein lipase

Raloxifene; 3T3-L1 adipocyte; Adiponectin (Murase, Y. (538) 1)

Lipoxin

Aspirin hypersensitivity; Cyclooxygenase; Non-steroid anti-inflammatory drug; Cysteinyl leukotriene (Szczeklik, A. (533) 145)

Lithium

Valproate; Cytotoxicity; Cytochrome *c*; Bcl-2; Caspase-3; Bipolar disorder (Lai, J.S. (539) 18)

Ileum; Guinea pig; Tolerance; Dependence; Morphine (Alborzi, A. (545) 123)

ATP-sensitive potassium channels; Memory; State-dependent learning; Mouse (Zarrindast, M.-R. (550) 107)

Mood stabilizers; Valproate; Carbamazepine; Prepulse inhibition; Apomorphine; Dizocilpine (Umeda, K. (553) 157)

Liver

Iron overload; Flavonoids; Baicalin; Quercetin; Oxidation (Zhang, Y. (535) 263)

Hypoxic hypoxia; Melatonin; Oxidative stress; Lipid peroxidation (El-Sokkary, G.H. (540) 107)

Cystathionine; Doxorubicin; Ehrlich tumor; Thiol; Toxicity (Kwiecień, I. (550) 39)

Liver injury

Hemin; Baicalein; Baicalin; Wogonin; HepG2 cell (Zhao, Y. (536) 192)

Protective effect; Acute phase protein; Interleukin-6; ME3738 (Kuzuhara, H. (541) 205)

Liver ischemia

Histamine; Histamine H₄ receptor; Portal vein; (Rat) (Adachi, N. (544) 181)

Liver X receptor α

High-density lipoprotein (HDL); Peroxisome proliferator-activated receptors (PPARs); Apolipoprotein A-I (apoA-I); ATP binding cassette transporter A1 (ABCA1) (Guo, L. (551) 80)

Liver X receptor agonist

Reverse cholesterol transport; ATP-binding cassette transporter A1; Cellular cholesterol efflux (Johnston, T.P. (536) 232)

L-NAME

Nitric oxide; Indomethacin; MK-801; Formalin test; Hyperalgesia (Tassorelli, C. (534) 103)

SNC-80; Nitric oxide; Delta opioid; Hypothermia (Rawls, S.M. (536) 109)

Diabetes; Cyclooxygenase; Kidney; (Rat) (Chen, Y.-J. (541) 80)

Experimental asthma; Pulmonary mechanics; Histamine; Resistance; Compliance; Hyperreactivity (Friberg, S.G. (547) 143)

L-NAME (*N*^G-nitro-L-arginine methyl ester)

iNOS (inducible nitric oxide synthase); eNOS (endothelial nitric oxide synthase); COX-2 (cyclooxygenase-2); *N*-(3-(aminomethyl)benzyl)acetamidine (1400W); NF- κ B (nuclear transcription factor κ B) (Guo, J.S. (536) 301)

L-N^G-nitroarginine methyl ester

GEA3162; Guanylin; Human colon; Nicardipine; Serotonin release (Kojima, S.-i. (550) 162)

L-type-Ca²⁺ channel

Cancer; Immune response; Verapamil; Walker 256 tumor (Degaspeti, G.R. (549) 179)

L-type calcium current

Sarcoplasmic reticulum; Na–Ca exchange; Arrhythmogenesis; Cardiac electrophysiology (Hove-Madsen, L. (553) 215)

Local administration

Gα_{q/11} inhibitor; Peripheral arterial disease; Platelet aggregation; Vasodilation (Uemura, T. (536) 154)

Local anaesthetic

Anaesthesia; Dextromethorphan; Dextrophan; 3-methoxymorphinan; Sciatic nerve (Hou, C.-H. (544) 10)

Local anesthetic

Voltage dependent sodium channel; Tolperisone; Lidocaine; *Xenopus laevis* oocyte (Hofer, D. (538) 5)

Localisation

Mouse stomach; Gastric relaxation; Photodegradable nitric oxide store; Superoxide dismutase (Ögülcener, N. (548) 137)

Locomotion

Dizocilpine maleate; NMDA receptor antagonist; Immobility; Catalepsy; Haloperidol (Tang, Y. (537) 77)

mGlu2/3 receptor; Prepulse inhibition; *c-fos* expression; Schizophrenia (Imre, G. (544) 77)

Locomotor

σ Receptor; MDMA; BD1063 (Brammer, M.K. (553) 141)

Locomotor activation

Cocaine; GABA neurotransmission; Behavioral sensitization; (Rat) (Filip, M. (541) 163)

Locomotor activity

Neonatal treatment; Citalopram; Imipramine; Sexual behavior (Maciag, D. (532) 265)

Cocaine; σ receptor; Convulsion (Daniels, A. (542) 61)

3-Phenyltropine; Drug discrimination; Self-administration; Dopamine transporter (Carroll, F.I. (553) 149)

Locus coeruleus

Propofol; pH change (Chen, C.-L. (545) 115)

α₂-Adrenoceptor; Atipamezole; Descending inhibition; Neuropathic pain; Noradrenergic antinociception (Wei, H. (551) 41)

Long QT syndrome

Prochlorperazine; Antiemetic drug; HERG channel; I_{Kr}; Arrhythmias (Kim, M.-D. (544) 82)

Action potential duration; Antibiotics; Drug-induced long QT; Early afterdepolarizations; TdP (Torsade de Pointes) (Lu, H.R. (553) 229)

Long-acting nitrate

Ranolazine; Sildenafil; Blood pressure; Heart rate; Conscious dog (Zhao, G. (541) 171)

Longevity

Angiotensin II; Type-2 diabetes; Renal failure; Metabolic syndrome (Janiak, P. (534) 271)

Long-term treatment

H-ras12V; Hepatocellular carcinoma; Cinnamaldehyde (Moon, E.-Y. (530) 270)

Lornoxicam

Nitroglycerin; Oxidative stress; Antioxidative effects; Side effects (Sen, S. (541) 191)

Lovastatin

Diabetes; Rat mesenteric bed; Endothelium; Streptozotocin; Chelerythrine (Fatehi-Hassanabad, Z. (535) 228)

Low concentration of esiRNA

Multidrug resistance; *MDR1*; Endonuclease-prepared small interference; RNA (esiRNA) (Li, L. (536) 93)

Low-density lipoprotein receptor

Squalene synthase inhibitor; 2-Biphenylmorpholine compounds; Cholesterol; Triglyceride; Apolipoprotein B (Tavridou, A. (535) 34)

Lower esophageal sphincter

Alendronate; Electrical field stimulation-induced contraction; NO-mediated relaxation (Takeuchi, T. (537) 155)

LTD (Long-term depression)

AP4 (L(+)-2-amino-4-phosphonobutanoic acid); Histology; Hippocampus; In vivo (Naie, K. (535) 104)

L-type Ca²⁺ channel

Cancer; Immune response; Verapamil; Walker 256 tumor (Degasperi, G.R. (549) 179)

L-type Ca²⁺ current

CGP-37157; Atrial myocyte (Thu, L.T. (552) 15)

Lung

VIP; Cytokine; Tachykinin (Groneberg, D.A. (533) 182)

Arginine; Arginase; Asthma; Allergy (Zimmermann, N. (533) 253)

Lung epithelial cell

Protease-activated receptor2 (PAR2); Neutrophil adhesion; Rho; Cytoskeleton (Yagi, Y. (536) 19)

Lung parenchyma

Allergic inflammation; Forced expiratory maneuver; Forced oscillation; Edema; FRC (Functional Residual Capacity); FVC (Forced Vital Capacity); IC (Inspiratory Capacity); MMEF (Mean Mid-Expiratory Flow); Cchord; Goblet cell; (Brown–Norway rat) (Celly, C.S. (540) 147)

Lungs

Oxidants; Antioxidants; Glutathione; Superoxide dismutase; Thioredoxin (Rahman, I. (533) 222)

Luteolin

Protein kinase B; Human gingival fibroblast; Mitogen-activated protein; Lipopolysaccharide; Nitric oxide; Nitric oxide synthase (Gutiérrez-Venegas, G. (541) 95)

Luteolin (3,4,5,7-tetrahydroxyflavone)

Human lung squamous carcinoma CH27 cell line; Superoxide dismutase; Catalase; Apoptosis (Wing-Cheung Leung, H. (534) 12)

Lymphatic regeneration

Dexamethasone; Acetylsalicylic acid; Micronized purified flavonoid fraction; Inflammation (Greco, K.V. (551) 131)

Lymphocyte

Anesthetics; Propofol; Oxidative stress; Neuron (Chikutei, K.-i. (540) 18)

Lymphocyte function-associated antigen-1

Delayed hypersensitivity; T-lymphocyte; Cell adhesion molecule; Receptor antagonist (Panzenbeck, M.J. (534) 233)

[Lys⁷]dermorphin

Deoxyglucose; Cerebral metabolism; Analgesia (Pontieri, F.E. (544) 17)

Lysosomes

Palladacycle; K562; *Bcl-2/Bax*; Apoptosis; Acridine orange (Barbosa, C.M.V. (542) 37)

M55165

Factor Xa inhibitor; Anticoagulant; M55551 (Hosaka, Y. (529) 164)

M55551

Factor Xa inhibitor; Anticoagulant; M55165 (Hosaka, Y. (529) 164)

Macrolide

Airway; Azithromycin; Contraction; Smooth muscle; Trachea (Daenas, C. (553) 280)

Macrophage

Pentoxifylline; Carboxylated metabolite; TNF- α ; Endothelium; ABC transporter (Fantin, M. (535) 301)

Chroman carboxamide; Interleukin-6; Inflammatory cytokine; Nuclear factor- κ B; Lipopolysaccharide (Hak Kim, B. (543) 158)

Cordyceps militaris; Cordycepin; Inflammation; NO production; Lipopolysaccharide (LPS) (Kim, H.G. (545) 192)

Macrophage colony stimulating factor

Osteoclasts; Imatinib; Bone resorption; Apoptosis (El Hajj Dib, I. (551) 27)

Magnolol

Honokiol; Oxidative stress; Excitotoxicity; Cerebellar granule cell (Lin, Y.-R. (537) 64)

Maitotoxin

Ca²⁺ channel; Brainstem cell; Ca²⁺ influx; Catecholamine release; Adrenal chromaffin cell (Kakizaki, A. (536) 223)

Male mouse

Ginsenoside Rb₁; Ginsenoside Rg₁; Ginsenoside Ro; Anxiolytic action; Elevated plus-maze (Carr, M.N. (531) 160)

Malignant glioma treatment

Temozolomide; Irradiation; Tissue remodelling; Metalloproteinases; Tumour invasiveness; Proteomics (Trog, D. (542) 8)

Malonaldehyde

N-hexacosanol; Diabetes; Nephropathy; TGF- β ₁ (transforming growth factor beta-1); PKC (protein kinase C) (Saito, M. (544) 132)

Malondialdehyde

1,4-Dihydropyridine; Antioxidants; Lipid peroxidation; 4-Hydroxynonenal; Hepatoprotection (Borovic, S. (537) 12)

Cyclooxygenase-2; Aluminum overload; Meloxicam; Impairment of learning and memory function; Neuronal death; Amyloid beta; Choline acetyltransferase (Jun-Qing, Y. (547) 52)

Mangiferin

Polyphenols; Iron; Superoxide scavenging; Cytoprotection (Pardo-Andreu, G.L. (547) 31)

Mania

Antidepressant; Dopamine; Imipramine; Motor activity; Quinpirole; Valproate (D'Aquila, P.S. (535) 208)

MAO (Monoamine oxidase)

Imidazoline site ligand; Insulin; SSAO (Semicarbazide-sensitive amine oxidase); Adipose tissue (Bour, S. (552) 20)

MAO (Monoamine oxidase) inhibitor

5-HT (5-hydroxytyptamine); 5-HT syndrome; SSRI (Serotonin reuptake inhibitor) (Izumi, T. (532) 258)

MAP kinase

Interleukin; Adrenergic agonist; Vasoconstriction (Seto, S.W. (531) 238)

Asthma; COPD; Inhibitor; IKK; Gene expression (Adcock, I.M. (533) 118)

Human neutrophil; Formylpeptide; Chemotaxis; Superoxide anion release; Protein kinase C (Selvatici, R. (534) 1)

MAPK [mitogen-activated protein kinase]

Cortical neurons; Ischemia; Excitotoxicity; Glutamate receptors; Cytoplasmic calcium; Swelling (Franceschini, D. (553) 18)

MAPK (mitogen-activated protein kinases)

Parkinson's disease; PC12 cells; Tempol; Neurotoxicity; Neuroprotection (Lipman, T. (549) 50)

Maprotiline

Acquired long QT syndrome; Arrhythmia; *HERG* potassium channel; Torsade de pointes; *I*_{Kr}; QT interval; Rapid delayed rectifier (Ferrer-Villada, T. (531) 1)

Marble burying

Anxiety; Anxiolytics; Predictive validity; (Mice) (Nicolas, L.B. (547) 106)

Marmoset

Cocaine; Tachykinin NK₃ receptor; SR 142801; Behavior; Sensitivity (De Souza Silva, M.A. (536) 269)

mas-like G protein-couple receptor

Salusin; Pain (Wang, Z. (539) 145)

Mast cell

Asthma; Immunoglobulin free light chain; Hypersensitivity; Multiple sclerosis; Rheumatoid arthritis (van der Heijden, M. (533) 319)

SCF (stem cell factor); Kit; Inflammation; Eosinophil; Asthma (Reber, L. (533) 327)

Chymase; IL-8/MIP-2; Eosinophil; Neutrophil (Terakawa, M. (538) 175)

Thrombin inhibitor; Histamine release; G protein; Basic secretagogue; Azaphenylalanine scaffold (Štampelj, M. (538) 182)

Angiotensin II; Edema; Carrageenan; Dextran (Carvalho, R.F. (540) 175)

8-Isoprostane; Aspirin (Mortaz, E. (543) 190)

Arthritis; Cysteinyl leukotriene; TNF- α (Shiota, N. (548) 158)

Mast cells

Adenosine; Asthma; AMP; Airway inflammation (Spicuzza, L. (533) 77)

Diabetes; Allergy; Aldose reductase (Carvalho, V.F. (549) 173)

Matrix metalloproteinase

Tissue inhibitor of MMP; Asthma; Cytokine; Growth factors (Gueders, M.M. (533) 133)

Atrial fibrillation; Electrical remodeling; Structural remodeling; Amiodarone (Ashikaga, K. (536) 148)

Antioxidant; Thiol; Newborn; Hypoxiareoxygenation (Emara, M. (544) 168)

Matrix metalloproteinase-9

Platelet aggregation; Membrane fluidity; Na^+/H^+ exchanger; Hydroxyl radical (Lee, Y.-M. (537) 52)

Maximal electroshock

2-Phosphonomethyl-pentanedioic acid; Glutamate carboxypeptidase II; Electroconvulsive threshold; Antiepileptic drug; Valproate; Pharmacokinetic interaction (Luszczki, J.J. (531) 66)

5-HT_{1B} receptor; CP 94253; RU 24969; *p*-Chlorophenylalanine; Pentylene-tetrazol-induced seizure; (Mice) (Wesołowska, A. (541) 57)

ACEA (Arachidonyl-2'-chloroethylamide); Cannabinoid CB₁ receptor; Chimney test; Interaction index; Isobolographic transformation; Neuromuscular grip strength; Pharmacokinetic interaction; Protective index; Valproic acid (Luszczki, J.J. (547) 65)

MC3T3-E1 osteoblastic cell

Quercetin; TNF- α ; Growth inhibition; Apoptosis induction (Son, Y.-O. (529) 24)

MCH-1 receptor antagonists

Depression; Anxiety; (Rat); (Mouse) (Basso, A.M. (540) 115)

Mcl-1 cleavage

Fas clustering; Prostanoid; Prostate cancer (Chiang, P.-C. (542) 22)

MDMA

σ Receptor; BD1063; Locomotor (Brammer, M.K. (553) 141)

MDR1

Multidrug resistance; Endonuclease-prepared small interference; RNA (esiRNA); Low concentration of esiRNA (Li, L. (536) 93)

mdr1a

mdr1b; *mnp2*; Cisplatin; Neuropathy; Mononeuropathy (Balayssac, D. (544) 49)

mdr1b

mdr1a; *mnp2*; Cisplatin; Neuropathy; Mononeuropathy (Balayssac, D. (544) 49)

ME3738

Protective effect; Acute phase protein; Liver injury; Interleukin-6 (Kuzuhara, H. (541) 205)

Meal pattern

Appetite; Anorexia; A-77636; Dopamine; Food intake; Obesity (Cooper, S.J. (532) 253)

Mecamylamine

18-Methoxycoronaridine; α -Conotoxin AuIB; Morphine; Medial habenula; Interpeduncular nucleus; Nicotine receptors; Drug addiction (Glick, S.D. (537) 94)

Mechanical hypersensitivity

Scorpion BmK venom; Paw inflammation; Spontaneous pain; Thermal hypersensitivity (Bai, Z.-T. (552) 67)

Mechanical stress

Ca^{2+} channel; Guinea pig; Mechanotransduction; Trachea; TRP (transient receptor potential) channel (Ito, S. (552) 135)

Mechanical stretch

Cerebral artery; Myosin phosphorylation; Protein kinase C; Rho-kinase; Shortening velocity (Obara, K. (534) 141)

Mechanotransduction

Ca^{2+} channel; Guinea pig; Mechanical stress; Trachea; TRP (transient receptor potential) channel (Ito, S. (552) 135)

Medial habenula

18-Methoxycoronaridine; α -Conotoxin AuIB; Mecamylamine; Morphine; Interpeduncular nucleus; Nicotine receptors; Drug addiction (Glick, S.D. (537) 94)

Medicinal chemistry

Inverse agonist; Neutral antagonist; Structure activity relationship (Greasley, P.J. (553) 1)

MEK1/2 activity

Sufentanil; SNC-80; U50488H; Morphine addiction; Rat brain (Asensio, V.J. (539) 49)

Melanin-concentrating hormone

Obesity; Indirect calorimetry; Receptor antagonist (Kowalski, T.J. (535) 182)

Melanocortin

Cytokine; Chemokine; Inflammation; Myocardial ischaemia (Getting, S.J. (532) 138)

Melanocortins

Ischemic stroke; Learning and memory; Hippocampal damage; Therapeutic window; (Mongolian gerbil) (Giuliani, D. (538) 48)

Melatonin

Inflammation; Vascular permeability; Endothelial cell; Neutrophil (Lotufo, C.M.C. (534) 258)

Glutathione reductase; Erythrocyte (Erat, M. (537) 59)

Vitamin E; Diabetes; Learning; Memory (Tuzcu, M. (537) 106)

Hypoxic hypoxia; Oxidative stress; Lipid peroxidation; Liver (El-Sokkary, G.H. (540) 107)

Diadenosine tetraphosphate; Dinucleotides; Melatonin receptor; P2Y receptor; Tear secretion (Hoyle, C.H.V. (552) 159)

Melatonin receptor

Melatonin; Diadenosine tetraphosphate; Dinucleotides; P2Y receptor; Tear secretion (Hoyle, C.H.V. (552) 159)

Meloxicam

Cyclooxygenase-2; Aluminum overload; Impairment of learning and memory function; Neuronal death; Amyloid beta; Choline acetyltransferase; Malondialdehyde (Jun-Qing, Y. (547) 52)

Memantine

Amyloid- β ; Ibotenate; Hippocampus; MK-801; Water maze (Nakamura, S. (548) 115)

Membrane fluidity

Matrix metalloproteinase-9; Platelet aggregation; Na^+/H^+ exchanger; Hydroxyl radical (Lee, Y.-M. (537) 52)

Membrane traffic

Norepinephrine; Transporter; Calcium (Amano, T. (536) 62)

Memory

Melatonin; Vitamin E; Diabetes; Learning (Tuzcu, M. (537) 106)

Fear learning; Rat; Associative learning; Endocannabinoid (Arenos, J.D. (539) 177)

Gomisin A; Passive avoidance test; Y-maze test; Morris water maze; Acetylcholinesterase (Kim, D.H. (542) 129)

Lithium; ATP-sensitive potassium channels; State-dependent learning; Mouse (Zarrindast, M.-R. (550) 107)

5-HT; Cognition; Water maze; Acetylcholine; *In vivo* microdialysis (Hirst, W.D. (553) 109)

Menopause

Diazepam; 8-OH-DPAT; Ovariectomy; Anxiety; Burying behaviour (Picazo, O. (530) 88)

Menthol

TRPM8; Icilin; Cold allodynia; Thermosensation; Canine (Liu, Y. (530) 23)

Mesangial cell

YM218; Vasopressin V_{1A} receptor; Nonpeptide antagonist (Tahara, A. (538) 32)

Mesenteric artery

Calcium-activated K⁺ channel; cAMP; Endothelium-derived hyperpolarizing factor; Type 2 diabetes; (Rat) (Matsumoto, T. (538) 132)

Neuropeptide Y; Electrical field stimulation; Noradrenaline; Acetylcholine; BIBP 3226; (Non-obese diabetic-mice) (Gradin, K.A. (539) 184)

Mesenteric traction

Cyclooxygenase-inhibitor; Prostaglandin; Hemodynamics; Oxygenation (Bucher, M. (536) 296)

Mesolimbic system

Ontogeny; Adolescent rat; Nucleus accumbens; Addiction; Quantitative microdialysis (Badanich, K.A. (550) 95)

Metabolic rate

Polymyxin B; Hypothermia; Heat-loss (Moriyama, N. (541) 38)

Metabolic syndrome

Angiotensin II; Type-2 diabetes; Renal failure; Longevity (Janiak, P. (534) 271)

Metabotropic glutamate receptor

Aggression; mGlu5 receptor; (Mice) (Navarro, J.F. (551) 67)

Metabotropic glutamate receptor subtype 5

Extracellular signal-regulated protein kinase; Cyclic-AMP responsive element-binding protein; *N*-methyl D-aspartate receptor; *N*-{4-chloro-2-[(1,3-dioxo-1,3-dihydro-2^H-isoindol-2-yl)-methyl]phenyl}-2-hydrobenzamide (Liu, F. (536) 262)

Metabotropic glutamate receptors

Alcohol; Drug discrimination; Discriminative stimulus; Ethanol intake; Self-administration (Besheer, J. (551) 71)

Metalloproteinases

Malignant glioma treatment; Temozolomide; Irradiation; Tissue remodelling; Tumour invasiveness; Proteomics (Trog, D. (542) 8)

Metamizol

Analgesia; Endogenous opioid; Potentiation; Non-steroidal anti-inflammatory drug (Hernández-Delgadillo, G.P. (546) 54)

Metformin

Osteoblast; Osteoporosis; Diabetes mellitus (Cortizo, A.M. (536) 38)

HIV; Paraoxonase; Monocyte chemoattractant protein-1; Postprandial; Rosiglitazone (Coll, B. (544) 104)

Dipeptidyl peptidase IV; Diabetes; Incretin hormone; Insulin (Green, B.D. (547) 192)

Methamphetamine

Cocaine; Immediate early gene; Opioid peptide; Basal ganglia (Horner, K.A. (532) 61)

Self-injurious behavior; Opioid receptor agonists (Mori, T. (532) 81)

Edaravone; Microglia; Astrocyte; Dopamine (Kawasaki, T. (542) 92)

DOPA; Dopamine; Release; Cocaine; Nicotine; Behavior; Nucleus accumbens; Microdialysis (Izawa, J.-i. (549) 84)

Methionine-choline-deficient diet

NASH; Bezafibrate; PPAR; GW501516; (Mouse) (Nagasawa, T. (536) 182)

Methotrexate

Dihydrofolate reductase; Drug resistance; Gene mutation; Gene therapy (Affleck, J.G. (529) 71)

18-Methoxycoronaridine

α-Conotoxin AulB; Mecamylamine; Morphine; Medial habenula; Interpeduncular nucleus; Nicotine receptors; Drug addiction (Glick, S.D. (537) 94)

3-methoxymorphinan

Anaesthesia; Dextromethorphan; Dextrorphan; Local anaesthetic; Sciatic nerve (Hou, C.-H. (544) 10)

3-methyl-4-nitrophenol

Anti-androgenic activity; Diesel exhaust particle; Recombinant yeast screen assay; Hershberger assay (Li, C. (543) 194)

1-Methyl-4-phenylpyridinium

Piperine; PC12 cells; Mitochondrial membrane permeability; Cell injury (Lee, C.S. (537) 37)

1-Methyl-4-phenylpyridinium ion (MPP⁺)

Desferrioxamine; Iron (III); Hydroxyl radical; Parkinson's disease (Obata, T. (539) 34)

Methylamine

Diabetes; Alpha-aminoguanidine; Hyperphagia; K_v1.6 potassium channel; Semicarbazide-sensitive benzylamine oxidase activity (Cioni, L. (529) 179)

3-Methylcholanthrene

Aryl-hydrocarbon receptor; Dioxin; Polycyclic aromatic hydrocarbons; Angiogenesis (Juan, S.-H. (530) 1)

Methylene blue

Guanylyl cyclase; Estrogen receptor; Tamoxifen; Pertussis toxin (Alex, A.B. (546) 102)

3,4-methylenedioxymethamphetamine

Para-methoxyamphetamine; Serotonin transporter; Neurodegeneration; 5-HT (Callaghan, P.D. (546) 74)

3,4-Methylenedioxymethamphetamine

Minocycline; Serotonin; Dopamine; Neurotoxicity; Microglia (Zhang, L. (544) 1)

Methyleugenol

Antinociceptive effect; GABA_A receptor; NMDA receptor (Yano, S. (553) 99)

[³H]Methyllycaconitine

α7; Nicotinic receptor; Nicotine; cAMP; PKC; Upregulation (Nuutinen, S. (544) 21)

[³H]methyllycaconitine binding

Nicotinic acetylcholine receptor; Dopamine release; Noradrenaline release; [³H]epibatidine binding; *Xenopus* oocyte (Abin-Carriquiry, J.A. (536) 1)

Mexiletine

Vincristine; Nitric oxide; Tetrodotoxin-resistant Na⁺ channel; Hyperalgesia (Kamei, J. (536) 123)

mGlu2/3 receptor

Prepulse inhibition; Locomotion; *c-fos* expression; Schizophrenia (Imre, G. (544) 77)

mGlu5

3,3'-difluorobenzaldazine; Allosteric enhancer; Seven-transmembrane-domain (Mühlemann, A. (529) 95)

mGlu5 receptor

'*in situ*' hybridisation; mRNA; [³H]MPEP ligand binding; Reserpine; Rat; Parkinson's disease (Ismayilova, N. (545) 134)

Aggression; Metabotropic glutamate receptor; (Mice) (Navarro, J.F. (551) 67)

+db/+db mice

Acetylcholine; Endothelium-dependent relaxation; Aorta; Caveolin-1 (Lam, T.Y. (546) 134)

db/db mice

Endothelial dysfunction; Small mesenteric artery; Endothelium-derived hyperpolarizing factor; Potassium channels; Epoxyeicosotrienoic acid (Pannirselvam, M. (551) 98)

(Mice)

Beta-3 adrenoceptor; SR58611A; Diabetes; Wound healing (Schaeffer, P. (529) 172)

Caffeic acid; Antidepressive-like effect; Forced swimming; BDNF; TrkB (Takeda, H. (534) 115)

Reserpine; Nitric oxide synthase; C57BL/6; Swiss; 7-Nitroindazole (Tadaiesky, M.T. (535) 199)

Nociceptin/orphanin FQ; NOP receptor; Ac-RYYRIK-ol; Isolated tissue; Behavioral assay (Gündüz, Ö. (539) 39)

5-HT_{1B} receptor; CP 94253; RU 24969; *p*-Chlorophenylalanine; Maximal electroshock; Pentylentetrazol-induced seizure (Wesołowska, A. (541) 57)

IRL1620 {Suc-[Glu⁹,Ala¹¹,Ala¹⁵]ET-1-(8–21)}; BMS182874 (5-(dimethylamino)-*N*-(3,4-dimethyl-5-isoxazolyd)-1-Naphthalenesulfonamide); Morphine; Analgesia; Gastrointestinal transit; Central nervous system; Endothelin (Matwyszyn, G.A. (543) 48)

Marble burying; Anxiety; Anxiolytics; Predictive validity (Nicolas, L.B. (547) 106)

Tachykinin NK₁ receptor; Colitis; Substance P; RP 67580 (Rijnierse, A. (548) 150)

Aggression; Metabotropic glutamate receptor; mGlu5 receptor (Navarro, J.F. (551) 67)

Microdialysis

Cocaine; Sensitization; Motor activity; Glutamate; GABA (Jayaram, P. (531) 74)

Ketamine; Acetylcholine; Nicotinic receptor; Spinal cord (Abelson, K.S.P. (534) 122)

Depression; Adrenergic receptor; SSRI (Selective Serotonin Reuptake Inhibitor) (Beyer, C.E. (539) 164)

DOPA; Dopamine; Release; Cocaine; Methamphetamine; Nicotine; Behavior; Nucleus accumbens (Izawa, J.-i. (549) 84)

6-OHDA-lesioned rat; Priming; Histamine H₃ receptor; Dopamine D₁ receptor; Vacuolar chewing movement; Catalepsy; Striatum (Nowak, P. (552) 46)

Microglia

Methamphetamine; Edaravone; Astrocyte; Dopamine (Kawasaki, T. (542) 92)

3,4-Methylenedioxymethamphetamine; Minocycline; Serotonin; Dopamine; Neurotoxicity (Zhang, L. (544) 1)

Micronized purified flavonoid fraction

Lymphatic regeneration; Dexamethasone; Acetylsalicylic acid; Inflammation (Greco, K.V. (551) 131)

Microtubule

Cardiomyocyte; Reperfusion injury; Tubulin ligand; Superoxide; NADPH oxidase (Devillard, L. (548) 64)

Midazolam

GABA_A receptors; IPSC; Substantia gelatinosa; Propofol; Patch clamp; (Mouse) (Takahashi, A. (553) 120)

Middle cerebral artery

Migraine; Adrenomedullin; Adrenomedullin receptor antagonist; Cerebral blood flow; Middle meningeal artery (Juhl, L. (538) 101)

ATP-sensitive K⁺ channels (K_{ATP} channels); Basilar artery; Pressurized arteriography; Quantitative real-time PCR; Western blotting (Ploug, K.B. (553) 254)

Middle ear

Dexamethasone; Otitis media with effusion; Fluid absorption; Na⁺/H⁺ exchanger (Choi, J.Y. (536) 12)

Middle meningeal artery

Migraine; Adrenomedullin; Adrenomedullin receptor antagonist; Cerebral blood flow; Middle cerebral artery (Juhl, L. (538) 101)

Migraine

Adrenomedullin; Adrenomedullin receptor antagonist; Cerebral blood flow; Middle cerebral artery; Middle meningeal artery (Juhl, L. (538) 101)

Mild cognitive impairment

Alzheimer disease; Biomarker; Cerebrospinal fluid; Amyloid precursor protein; Platelet (Borroni, B. (545) 73)

Milnacipran

Imipramine; Fluvoxamine; Carbamazepine; Writhing test; (Mouse) (Aoki, M. (550) 78)

Mineralization

Curcumin; Polyphenol; Osteoblasts; p21; Proliferation (Notoya, M. (534) 55)

Calcification; Sodium nitroprusside; Inorganic phosphate; Iron ion (Huitema, L.F.A. (542) 48)

Minocycline

Neuropathic pain; Hyperalgesia; Allodynia; Interleukin-6 (Zanjani, T.M. (538) 66)

3,4-Methylenedioxymethamphetamine; Serotonin; Dopamine; Neurotoxicity; Microglia (Zhang, L. (544) 1)

Mirtazapine

Dopamine receptor; Nucleus accumbens; Striatum; Amitriptyline; Sertraline; RT-PCR (Reverse Transcriptase-Polymerase Chain Reaction) (Huzarska, M. (532) 208)

Mitiglinide

Sulfonylureas; K_{ATP} channel; Ischemia-reperfusion; Cardiac function; Coronary perfusion flow (Maruyama, I. (531) 194)

Mitochondria

Serofendic acid; Neuroprotection; Glutamate; Caspase (Kume, T. (542) 69)

Pinocembrin; Cerebral hypoperfusion; Cognitive (Guang, H.-M. (542) 77)

Heart; Ischemia-reperfusion; Sodium–calcium exchanger; SEA0400 (Namekata, I. (543) 108)

Basal ganglia; Parkinson's disease; Huntington's disease (Di Filippo, M. (545) 65)

Mitochondrial adenosine triphosphate dependent potassium channel

Anaesthetic preconditioning; Xenon; Cardiac preconditioning; Protein kinase C; 3Phosphatidylinositol-dependent kinase-1 (Weber, N.C. (539) 1)

Mitochondrial dysfunction

N-nitrosfenfluramine; Fenfluramine; Appetite suppressant; Mitochondrial permeability transition; Hepatonecrosis; Dietary supplement (Nakagawa, Y. (529) 33)

Mitochondrial K_{ATP} channel

Langendorff heart; 5-HT_{1A} receptor antagonist; Spectroscopy; MPTP (mitochondrial permeability transition pore); Apoptosis (Huang, L. (534) 165)

Mitochondrial membrane permeability

1-Methyl-4-phenylpyridinium; Piperine; PC12 cells; Cell injury (Lee, C.S. (537) 37)

Mitochondrial membrane potential

Carboxyamido-triazole; Human breast cancer; Cell cycle; Apoptosis (Guo, L. (538) 15)

Mitochondrial permeability transition

N-nitrosfenfluramine; Fenfluramine; Appetite suppressant; Mitochondrial dysfunction; Hepatonecrosis; Dietary supplement (Nakagawa, Y. (529) 33)

Mitochondrion

Carboxymethyl-chitosan; Chondrocyte; Apoptosis; Nitric oxide; Reactive oxygen species (Chen, Q. (541) 1)

Mitogen activated protein kinase

Ligustilide; Vascular smooth muscle cell (Lu, Q. (542) 136)

Mitogen-activated kinase phosphatase-1

Lipopolysaccharide; Nitric oxide; Cyclooxygenase-2; Signal transduction; RAW 264.7 macrophage; Anti-inflammatory effect (Chen, T.-H. (541) 138)

Mitogen-activated protein

Protein kinase B; Human gingival fibroblast; Lipopolysaccharide; Luteolin; Nitric oxide; Nitric oxide synthase (Gutiérrez-Venegas, G. (541) 95)

Mitogen-activated protein kinase

Tanshinone IIA; Nuclear factor κ B; NF- κ B-inducing kinase; $I\kappa$ B kinase; Lipopolysaccharide (Il Jang, S. (542) 1)

Antianalgesia; Analgesia; Opioid; Spinal cord (Wu, H.-e. (550) 91)

Mitogen-activated protein kinases

Angiotensin II; Smooth muscle cell; Proliferation; Extracellular signal-regulated kinases 1/2; Crocetin (Zhou, C.-H. (535) 61)

Mitogenic effect

Norepinephrine; RhoA; Endothelial nitric oxide synthase; Vascular endothelial growth factor; Extracellular signal-related kinase; Human umbilical vein endothelial cells (Seya, Y. (553) 54)

Mitotic catastrophe

Transcriptome; WP631; Anthracycline; Jurkat T lymphocyte; p53 (Mansilla, S. (540) 34)

Mitoxantrone

Hepatoma; Platinum complex; Bile acid; Cisplatin; Carboplatin (Barbara, C. (549) 27)

Mizoribine

Inosine; Inosinic acid; Intestinal absorption; N1 transporter (Okada, M. (531) 140)

MK-801

NMDA; DL-AP5; Physostigmine; Passive avoidance learning; Retention; Basolateral amygdala; (Rats) (Jafari-Sabet, M. (529) 122)

Nitric oxide; Indomethacin; L-NAME; Formalin test; Hyperalgesia (Tassorelli, C. (534) 103)

Amyloid- β ; Ibotenate; Hippocampus; Memantine; Water maze (Nakamura, S. (548) 115)

MK801

BDNF (brain-derived neurotrophic factor); Valproate; Retrosplenial cortex (Jeon, G.S. (545) 142)

MK912

BRL44408; Capsaicin; α -CGRP; External carotid vasodilatation; Imiloxan (Jiménez-Mena, L.R. (543) 68)

MMEF (Mean Mid-Expiratory Flow)

Allergic inflammation; Forced expiratory maneuver; Forced oscillation; Edema; FRC (Functional Residual Capacity); FVC (Forced Vital Capacity); IC (Inspiratory Capacity); Cchord; Lung parenchyma; Goblet cell; (Brown–Norway rat) (Celly, C.S. (540) 147)

Mn (III) porphyrin

Aconitase; Antioxidant; Closed cranial impact; Superoxide dismutase; Traumatic brain injury; (Mouse) (Leinenweber, S.B. (531) 126)

Model

Drug dependence; Protein synthesis (Raffa, R.B. (551) 54)

Modulation

Hyperhomocysteinemia; Carotid artery; α_{1D} -adrenoceptor; Relaxation; Phenylephrine; Nitric oxide; Oxidative stress (de Andrade, C.R. (543) 83)

Dopamine D₁ receptor; Adenosine A₁ receptor; CRE-SEAP reporter gene (Cao, Y. (548) 29)

(Mongolian gerbil)

Flurothyl; GABA-benzodiazepine receptor; Amino acid (Hashimoto, Y. (536) 241)

Ischemic stroke; Learning and memory; Hippocampal damage; Melanocortins; Therapeutic window (Giuliani, D. (538) 48)

(Monkey)

CYP2E1; Phenobarbital; Chlorzoxazone; Brain; Protein induction (Lee, A.M. (552) 151)

Monkey

Apical sodium-dependent bile acid transporter; Enterohepatic circulation; Hypocholesterolemic agent; Hamster; Cholesterol (Kitayama, K. (539) 89)

Monoclonal antibody anti-IgE

Allergic asthma; Anti-IgE-antibody; Allergic respiratory diseases; Omalizumab (D'Amato, G. (533) 302)

Monocyte

Statin; Chemotaxis; Adhesion molecule; Cytoskeleton; Endothelial cell (Pozo, M. (548) 53)

Atherosclerosis; Calcium channel blocker; Cell adhesion molecule; Protein kinase; Signal transduction (Takahashi, K. (552) 162)

Monocyte chemoattractant protein-1

HIV; Paraoxonase; Postprandial; Metformin; Rosiglitazone (Coll, B. (544) 104)

Montmorillonite

Hyperthyroidism; Thyroid hormone; Entero-hepatic circulation (Cai, Y. (551) 156)

Mononeuropathy

mdr1a; *mdr1b*; *mrp2*; Cisplatin; Neuropathy (Balayssac, D. (544) 49)

Mood stabilizers

Valproate; Carbamazepine; Lithium; Prepulse inhibition; Apomorphine; Dizocilpine (Umeda, K. (553) 157)

Morphine

Tramadol; Buprenorphine; Fentanyl; Antinociception; Knock-out mice; μ -opioid peptide receptor; α_2 -adrenoceptor (Özdoğan, Ü.K. (529) 105)

Pleura; Ussing system; Transmesothelial resistance; (Sheep) (Vogiatzidis, K. (530) 276)

Pupil diameter; Intraocular pressure; Opioid receptors; Nitric oxide (Bonfiglio, V. (534) 227)

Opioid agonist; Infection; Intestinal transit; Osmotic minipump (Feng, P. (534) 250)

NMDA receptor antagonist; Antinociception; Acute tolerance; Estradiol; Tamoxifen (Shekunova, E.V. (535) 78)

GABA; Glutamate; Withdrawal; Spinal (Dunbar, S.A. (535) 152)

Tolerance; Vesicular glutamate transporter (Suzuki, M. (535) 166)

Gap junction; Antinociception (Suzuki, M. (535) 169)

Running; Learning and memory (Alaei, H. (536) 138)

Nicotine; Reinstatement; Calcium channel antagonist; Place conditioning; (Rat) (Biala, G. (537) 85)

18-Methoxycoronaridine; α -Conotoxin AuIB; Mecamylamine; Medial habenula; Interpeduncular nucleus; Nicotine receptors; Drug addiction (Glick, S.D. (537) 94)

IRL1620 {Suc-[Glu⁹,Ala¹¹,Ala¹⁵]ET-1-(8–21)}; BMS182874 (5-(dimethylamino)-*N*-(3,4-dimethyl-5-isoxazolyl)-1-Naphthalenesulfonamide); Analgesia; Gastrointestinal transit; Central nervous system; Endothelin; (Mice) (Matwyszyn, G.A. (543) 48)

Ileum; Guinea pig; Tolerance; Dependence; Lithium (Alborzi, A. (545) 123)

Wet-dog shakes; Icilin; Buprenorphine; ICI 204,448; Nalfurafine; U50,488H; SNC 80 (Werkheiser, J.L. (547) 101)

7-Hydroxymitragynine; Antinociception; Gastrointestinal transit; μ -Opioid receptor (Matsumoto, K. (549) 63)

Antinociceptive activity; Tetrahydropyran derivative; Opioid (Marinho, B.G. (550) 47)

Postherpetic neuralgia; Herpes zoster; Opioid receptor; Nalfurafine; Analgesia (Takasaki, I. (550) 62)

ATP-dependent K⁺ channel; Jumping; Diarrhea; (Mouse) (Zarrindast, M.-R. (552) 90)

Morphine addiction

MEK1/2 activity; Sufentanil; SNC-80; U50488H; Rat brain (Asensio, V.J. (539) 49)

Morphine analgesia modulation

I₂-IBS (I₂-imidazoline binding sites); I₂-IBS ligands; Phenylzoline; Diphenzoline (Gentili, F. (553) 73)

Morris water maze

Gomisin A; Memory; Passive avoidance test; Y-maze test; Acetylcholinesterase (Kim, D.H. (542) 129)

Motor activity

Cannabinoid; Feeding behaviour; Drinking behaviour; Body weight; (Rat) (Gardner, A. (530) 103)

Cocaine; Sensitization; Microdialysis; Glutamate; GABA (Jayaram, P. (531) 74)

Chronic nicotine; Dopamine; Nucleus accumbens; Dorsal striatum (Tamimäki, A. (531) 118)

Antidepressant; Dopamine; Imipramine; Mania; Quinpirole; Valproate (D'Aquila, P.S. (535) 208)

Motor performance

γ -hydroxybutyrate (GHB); Flunitrazepam; Baclofen; Cross-tolerance; Rotorod (Smith, M.A. (552) 83)

(Mouse)

Nafamostat mesilate; Tryptase; PAR-2 receptor; Scratching; Itch (Ui, H. (530) 172)

Aconitase; Antioxidant; Closed cranial impact; Mn (III) porphyrin; Superoxide dismutase; Traumatic brain injury (Leinenweber, S.B. (531) 126)

Methionine-choline-deficient diet; NASH; Bezafibrate; PPAR; GW501516 (Nagasawa, T. (536) 182)

Adenosine A₃ receptor; Granulopoiesis; Myelosuppression; 5-Fluorouracil (Hofer, M. (538) 163)

Tyr-D-Arg-Phe-sarcosine; Dermorphin; Antinociception; Spinal cord; μ -Opioid receptor (Mizoguchi, H. (540) 67)

MCH-1 receptor antagonists; Depression; Anxiety; (Rat) (Basso, A.M. (540) 115)

Imipramine; Fluvoxamine; Milnacipran; Carbamazepine; Writhing test (Aoki, M. (550) 78)

Body temperature; Stress-induced hyperthermia; GABAA receptor; Genetic background; 5-HT₇ receptor (Van Bogaert, M. (550) 84)

Δ^9 -tetrahydrocannabinol; Cannabinoids; Catalepsy; 5-HT_{1A} receptor; 5-HT (5-hydroxytryptamine, serotonin) (Egashira, N. (550) 117)

Morphine; ATP-dependent K⁺ channel; Jumping; Diarrhea (Zarrindast, M.-R. (552) 90)

GABA_A receptors; IPSC; Substantia gelatinosa; Propofol; Midazolam; Patch clamp (Takahashi, A. (553) 120)

Mouse

Prostaglandin; Formalin; Glutamate; GABA (Oliva, P. (530) 40)

Small-conductance Ca²⁺-activated K⁺ channel (SK channel); 1-ethyl-2-benzimidazolinone (1-EBIO); Anticonvulsant (Anderson, N.J. (546) 48)

Allergic dermatitis; Hapten; Scratching behavior; Immunoglobulin E; Interferon-γ; Interleukin-4; Interleukin-5; Tacrolimus; Dexamethasone (Inagaki, N. (546) 189)

Lithium; ATP-sensitive potassium channels; Memory; State-dependent learning (Zarrindast, M.-R. (550) 107)

Mouse 5-HT₆ receptor

Site-directed mutagenesis (Zhang, J. (534) 77)

Mouse colon

Carbachol; Cl[−] secretion; Muscarinic receptor (Haberberger, R. (530) 229)

P2Y receptor; Enteric inhibitory neurotransmission; Calcium store; Calcium-dependent potassium channel; Intracellular microelectrode (Zizzo, M.G. (544) 174)

Mouse stomach

Gastric relaxation; Photodegradable nitric oxide store; Localisation; Super-oxide dismutase (Ögülcener, N. (548) 137)

Moxonidine

Heart; Perfusion; Atrial natriuretic peptide; Imidazoline receptors; α₂-adrenoceptors (Mukaddam-Daher, S. (541) 73)

[³H]MPEP ligand binding

mGlu5 receptor; ‘*in situ*’ hybridisation; mRNA; Reserpine; Rat; Parkinson’s disease (Ismayilova, N. (545) 134)

MPTP (mitochondrial permeability transition pore)

Langendorff heart; Mitochondrial K_{ATP} channel; 5-HT_{1A} receptor antagonist; Spectroscopy; Apoptosis (Huang, L. (534) 165)

MPTP treated primate

Adenosine A_{2a} receptor antagonist; ST1535; Parkinson’s disease (Rose, S. (546) 82)

mRNA

mGlu5 receptor; ‘*in situ*’ hybridisation; [³H]MPEP ligand binding; Reserpine; Rat; Parkinson’s disease (Ismayilova, N. (545) 134)

Diabetes; Neuropathy; Muscarinic M₂ receptor; Muscarinic M₃ receptor; Cyclohexenonic long-chain fatty alcohol (Shinbori, C. (545) 177)

mRNA expression

Voltage-gated Na⁺ channel; α subunit; β subunit; Peripheral tissue; (Human) (Candenas, L. (541) 9)

Mu opioid receptor

Remifentanyl; Analgesia; Opioid; *Rana pipiens* (Mohan, S. (534) 89)

Mucociliary clearance

β-adrenoceptor; Airway; Bronchodilatation; Inflammation; Stereoisomerism; Genetic polymorphism (Broadley, K.J. (533) 15)

Mucosa-adherent bacterium

Intimin; Type III secretion system; Norepinephrine; Cocaine; Enteric nervous system (Chen, C. (539) 116)

Mucosal mast cell

Compound 48/80; Rat mast cell protease; Connective tissue mast cell; Airway (Liu, S. (530) 128)

Mucous epithelial cell

Stomach; Gastric; Indomethacin; Non-steroidal anti-inflammatory drug; Cyclooxygenase inhibitor (Kavvada, K.M. (549) 41)

Multidrug resistance

MDR1; Endonuclease-prepared small interference; RNA (esiRNA); Low concentration of esiRNA (Li, L. (536) 93)

Multidrug resistance-associated protein 2

2,4-Dinitrophenyl-S-glutathione; CCl₄-induced acute hepatic failure; Hyperbilirubinemia; Intestinal efflux (Yokooji, T. (546) 152)

Multidrug transporter

P-glycoprotein; Epilepsy; Pharmacoresistance; Pharmacogenetics (Baars, C. (550) 54)

Multiple sclerosis

Asthma; Immunoglobulin free light chain; Hypersensitivity; Mast cell; Rheumatoid arthritis (van der Heijden, M. (533) 319)

Murine L929 cells

cPLA₂α; Hydrogen peroxide; Src; Protein kinase C (Taniguchi, T. (546) 1)

Muscarinic M₂ receptor

Diabetes; Neuropathy; Muscarinic M₃ receptor; mRNA; Cyclohexenonic long-chain fatty alcohol (Shinbori, C. (545) 177)

Muscarinic M₃ receptor

Diabetes; Neuropathy; Muscarinic M₂ receptor; mRNA; Cyclohexenonic long-chain fatty alcohol (Shinbori, C. (545) 177)

Muscarinic receptor

Carbachol; Cl[−] secretion; Mouse colon (Haberberger, R. (530) 229)

Pilocarpine; Acetylcholine; Olfactory discrimination; Social recognition memory; Aging; (Rat) (Prediger, R.D.S. (531) 176)

Transgenic mouse; Cognition; Animal model; Anxiety (Degroot, A. (531) 183)

Antimuscarinic agent; COPD (Chronic Obstructive Pulmonary disease); Asthma; Ipratropium; Tiotropium (Gross, N.J. (533) 36)

Acetylcholine; Airway; Nicotinic receptor; Airway smooth muscle (Racké, K. (533) 57)

Muscarinic receptor binding

Bladder; Submaxillary gland; Oral administration; Tolterodine; Oxybutynin; Salivation (Oki, T. (529) 157)

Muscimol

Soman; Seizure; Rocyclidine; Ethanol; Propofol; Aphagia/adipsia; Resistance; Electrode placement (Myhrer, T. (548) 83)

Mutagenesis

Human cannabinoid CB₁ receptor; AM2233; AM251 (Shen, C.-P. (531) 41)

Mutant

Dopamine transporter; Cocaine; Charged amino acid; Glutamate (Dar, D.E. (538) 43)

Mycalolide B

Pleural mesothelial cell; Store-mediated; Calcium channel; Actin cytoskeleton (Kuwahara, M. (542) 16)

Mycobacteria

Allergy; Asthma; Bacterial extract; CpG motif; Hygiene hypothesis; Lipopolysaccharide; Probiotics; T helper cell; Toll-like receptors; T regulatory cells (Feleszko, W. (533) 308)

Myeloperoxidase

LDL; Captopril; ACE inhibitor; Apolipoprotein B-100 (Van Antwerpen, P. (537) 31)

Myeloperoxidase activity

β -glucan; Lipid peroxidation; Glutathione; TNF- α ; Apoptosis (Şener, G. (542) 170)

Myelosuppression

Adenosine A₃ receptor; Granulopoiesis; 5-Fluorouracil; (Mouse) (Hofer, M. (538) 163)

Myenteric plexus

Chronic desipramine treatment; α_2 -adrenoceptor; κ -opioid receptor; μ -opioid receptor; Sympathetic innervation (Canciani, L. (553) 269)

Myoblast differentiation

Genistein; PI-3,4,5-P₃ (dipalmitoyl L- α -phosphatidyl-D-myo-inositol 3,4,5-triphosphate); FAK (focal adhesion kinase); PI3-kinase (phosphoinositide 3-kinase); Ca²⁺ influx (Woo, J.H. (529) 84)

Myocardial infarction

Cell hypertrophy; Congestive heart failure; KR-31378; ATP-sensitive potassium channel (Hwang, G.S. (540) 131)

Myocardial ischaemia

Melanocortin; Cytokine; Chemokine; Inflammation (Getting, S.J. (532) 138)

Myocardial ischemia

Coronary blood flow; Coronary vasodilator reserve; Vasoconstrictor prostanoid; Nitric oxide (Climent, B. (530) 234)

Myocardial norepinephrine

Neurotensin; Ventricular contractility; Cardiac hypertrophy (Osadchii, O. (553) 246)

Myocardium

Angiotensin II; Endocardial endothelium; Endothelin-1; Inotropism (Castro-Chaves, P. (544) 91)

Myocyte

Acetylcholine; Adenosine; Ischemia; Postconditioning (Lu, J. (549) 133)

Myogenic tone

Histamine; Endothelium; K_v potassium channels; Rat cerebral artery (Jarajapu, Y.P.R. (547) 116)

Myosin light chain

Capsaicin; Capsazepine; Intestine; K⁺ channel (Fujimoto, S. (530) 144)

Myosin light chain phosphorylation

2-APB; Signal transduction; Cell signaling; Calcium channel blocker; Fura-2; Contraction (Ratz, P.H. (541) 177)

Myosin phosphorylation

Cerebral artery; Mechanical stretch; Protein kinase C; Rho-kinase; Shortening velocity (Obara, K. (534) 141)

Myotonia

Flecainide; Anti-arrhythmia agent; Sodium channel; Patch-clamp technique (Aoike, F. (532) 24)

N -acetylcysteine

Oxidative stress; Diabetes; N-acetylcysteine; Myocardial dysfunction (Xia, Z. (544) 118)

N1 transporter

Mizoribine; Inosine; Inosinic acid; Intestinal absorption (Okada, M. (531) 140)

N-(3-(aminomethyl)benzyl)acetamidine (1400W)

iNOS (inducible nitric oxide synthase); eNOS (endothelial nitric oxide synthase); COX-2 (cyclooxygenase-2); L-NAME (N^G-nitro-L-arginine methyl ester); NF- κ B (nuclear transcription factor κ B) (Guo, J.S. (536) 301)

N-{4-chloro-2-[(1,3-dioxo-1,3-dihydro-²H-isoindol-2-yl)-methyl]phenyl}-2-hydrobenzamide

Metabotropic glutamate receptor subtype 5; Extracellular signal-regulated protein kinase; Cyclic-AMP responsive element-binding protein; N-methyl D-aspartate receptor (Liu, F. (536) 262)

Na⁺ current (I_{Na})

Atrial myocyte; Protein kinase C; Staurosporine (Ko, J.H. (534) 48)

Na⁺/Ca²⁺ exchange

Arrhythmia; Endogenous inhibitor; KB-R7943 (Shpak, B. (553) 196)

N-acetylcysteine

Tumor necrosis factor α ; Vascular endothelial cells; Apoptosis (Xia, Z. (550) 134)

N-Acetylcysteine

Sucrose; Lipid profile; Glycaemia; Oxidative stress (Diniz, Y.S. (543) 151)

Na⁺/Ca²⁺-exchanger

⁴⁵Ca uptake; Tetrodotoxin-sensitive Na⁺ channel; Hippocampal synaptosome (Costa, J. (544) 39)

NADPH oxidase

Superoxide; Neutrophil; Aorta; Aortic valve; HUVEC (human umbilical vein endothelial cell); Fibroblast; Perhexiline (Kennedy, J.A. (531) 13)

Aorta; Homocysteine; Copper; Nitric oxide; Superoxide (Shukla, N. (531) 201)

Cardiomyocyte; Reperfusion injury; Microtubule; Tubulin ligand; Superoxide (Devillard, L. (548) 64)

gp91phox; Deoxycorticosterone acetate (DOCA)-salt hypertension; Superoxide (Fujii, A. (552) 131)

 β -NAD

Artery; Adenylyl cyclase; Neurotransmitter release; Protein kinase A (Bobalova, J. (536) 128)

NADPH oxidase [nicotinamide adenine dinucleotide phosphate oxidase]

Superoxide; Endothelial cell; Pulmonary artery (Muzaffar, S. (538) 108)

NADPH-dependent superoxide production

Gender difference; Statin; Vasoprotection (Kurumazuka, D. (553) 263)

Nafamostat mesilate

Tryptase; PAR-2 receptor; Scratching; Itch; (Mouse) (Ui, H. (530) 172)

Na-Ca exchange

Sarcoplasmic reticulum; L-type calcium current; Arrhythmogenesis; Cardiac electrophysiology (Hove-Madsen, L. (553) 215)

Na⁺/H⁺ exchanger

KR-33028; Cardioprotective effects; Hypoxia; Ischemia (Jung, Y.-S. (535) 220)

Dexamethasone; Otitis media with effusion; Fluid absorption; Middle ear (Choi, J.Y. (536) 12)

Matrix metalloproteinase-9; Platelet aggregation; Membrane fluidity; Hydroxyl radical (Lee, Y.-M. (537) 52)

Na-K-2Cl cotransporter

Traumatic brain injury; Brain edema; Bumetanide (Lu, K.-T. (548) 99)

Nalfurafine

Wet-dog shakes; Icilin; Morphine; Buprenorphine; ICI 204,448; U50,488H; SNC 80 (Werkheiser, J.L. (547) 101)

Postherpetic neuralgia; Herpes zoster; Opioid receptor; Morphine; Analgesia (Takasaki, I. (550) 62)

N-Allylsecoboldine

Acute renal failure; Endotoxemia; Nitric oxide synthase; α_1 -adrenoceptor antagonist; Tumor necrosis factor- α (Chiao, C.-W. (535) 291)

Naloxone

Tramadol; Enantiomers; Aorta; Vasodilatation; Papillary muscle (Raimundo, J.M. (530) 117)

Atropine; Hot-plate; Fluoxetine; Neuropathic pain; Streptozotocin; Tail-immersion (Anjaneyulu, M. (538) 80)

NANC (nonadrenergic noncholinergic) relaxation

Cannabinoid; Anandamide; NO (nitric oxide); Corpus cavernosum; (Rat) (Ghasemi, M. (544) 138)

Nanocarrier

Nanotechnology; Nanomaterial; Nanoparticle; Quantum dot; Respiratory medicine (Pison, U. (533) 341)

Nanomaterial

Nanotechnology; Nanoparticle; Nanocarrier; Quantum dot; Respiratory medicine (Pison, U. (533) 341)

Nanoparticle

Nanotechnology; Nanomaterial; Nanocarrier; Quantum dot; Respiratory medicine (Pison, U. (533) 341)

Nanotechnology

Nanomaterial; Nanoparticle; Nanocarrier; Quantum dot; Respiratory medicine (Pison, U. (533) 341)

Naproxen

Cyclooxygenase; Rofecoxib; Oxidative stress; Immobilization stress (Dhir, A. (535) 192)

Narcotics

Opioid; Cannabinoid; Pain (Roberts, J.D. (530) 54)

NASH

Methionine-choline-deficient diet; Bezafibrate; PPAR; GW501516; (Mouse) (Nagasawa, T. (536) 182)

Natural killer

Titanocene; Haematopoiesis; Tumour (Valadares, M.C. (534) 264)

NC mouse

Cannabinoid CB₂ receptor; Itch-associated response (Maekawa, T. (542) 179)

NCI-H292

Carbocisteine; Glycosyltransferase mRNA; Sialyl-Lewis x; Phosphatidyl inositol-specific phospholipase C; TNF- α (Ishibashi, Y. (530) 223)

NCX 2057(3-(4-hydroxy-3-methoxyphenyl)-2-propenoic acid 4-(nitrooxy)butyl ester)

Ferulic acid; Nitric oxide; NF- κ B (nuclear factor kappa-B); Inflammation; RAW 264.7 macrophages (Ronchetti, D. (532) 162)

Neonatal programming

Hypothalamus–pituitary–adrenal axis; Corticotropin-releasing hormone; Adrenocorticotropin; Corticosteroid; Pro-opiomelanocortin antisense (Galiotta, G. (550) 180)

Neonatal treatment

Citalopram; Imipramine; Locomotor activity; Sexual behavior (Maciag, D. (532) 265)

Nephropathy

N-hexacosanol; Diabetes; Malonaldehyde; TGF- β_1 (transforming growth factor beta-1); PKC (protein kinase C) (Saito, M. (544) 132)

Nerve growth factor

Nerve growth factor receptor; Asthma; Airway hyperreactivity; Airway inflammation; Neurogenic inflammation (Nassenstein, C. (533) 195)

Diabetes; Neuropathy; Neurotrophic factor; Peripheral nerve (Calcutt, N.A. (534) 187)

Nerve growth factor receptor

Nerve growth factor; Asthma; Airway hyperreactivity; Airway inflammation; Neurogenic inflammation (Nassenstein, C. (533) 195)

Nerve injury

Neuropathic pain; Sodium channel; Dorsal root ganglion; Substance P (Akada, Y. (536) 248)

Lidocaine; Tramadol; Delayed depolarization; Slow sodium currents; Hyperpolarizing afterpotential (Mert, T. (543) 54)

Neural progenitor cell

Neurogenesis; Trophic factor; Cell death; Antioxidant (Niidome, T. (548) 1)

Neurodegeneration

Interleukin-1 β ; Adenosine; Ca²⁺-induced Ca²⁺ releasing system; Neuroprotection; Hippocampus (Zhu, G. (532) 246)

Nuclear factor-kappaB; Cell death; Amyloid beta; c-Rel; p65 (Pizzi, M. (545) 22)

Para-methoxyamphetamine; 3,4-methylenedioxymethamphetamine; Serotonin transporter; 5-HT (Callaghan, P.D. (546) 74)

Neurogenesis

Neural progenitor cell; Trophic factor; Cell death; Antioxidant (Niidome, T. (548) 1)

Neurogenic inflammation

Nerve growth factor; Nerve growth factor receptor; Asthma; Airway hyperreactivity; Airway inflammation (Nassenstein, C. (533) 195)

Neurogranin

RC3; Opioid (Tang, L. (542) 106)

Neuroinflammation

Amyotrophic lateral sclerosis; Cannabinoid (Kim, K. (542) 100)

Neurokinin A

Tachykinin; Substance P; Asthma; Chronic obstructive pulmonary disease; Airway inflammation (De Swert, K.O. (533) 171)

Tachykinins; NK₂ receptor antagonist; Oral activity; Colon contraction; Gastrointestinal disorders; Bronchoconstriction (Cialdai, C. (549) 140)

Neuroleptic

Tardive dyskinesia; Adenosinergic receptor system; Caffeine; Adenosine (Bishnoi, M. (552) 55)

Neurological disease

Phosphodiesterase; Ibudilast; Respiratory disease (Gibson, L.C.D. (538) 39)

Neuromuscular grip strength

ACEA (Arachidonyl-2'-chloroethylamide); Cannabinoid CB₁ receptor; Chimney test; Interaction index; Isobolographic transformation; Maximal electroshock; Pharmacokinetic interaction; Protective index; Valproic acid (Luszczki, J.J. (547) 65)

Neuron

Anesthetics; Propofol; Oxidative stress; Lymphocyte (Chikutei, K.-i. (540) 18)

Neuronal apoptosis

Glycyrrhizic acid; Neuroprotection; Glutamate; NMDA receptor; Transcription factor; Ca²⁺ influx (Cherng, J.-M. (547) 10)

Neuronal death

Cyclooxygenase-2; Aluminum overload; Meloxicam; Impairment of learning and memory function; Amyloid beta; Choline acetyltransferase; Malondialdehyde (Jun-Qing, Y. (547) 52)

Neuronal survival

Colorimetric assay; Primary cortical neurons; Baclofen; Spasticity (Dario, A. (550) 33)

Neurons

In situ hybridization; D-serine; Serine racemase (Yoshikawa, M. (548) 74)

Neuropathic pain

Gabapentin; Nitric oxide; Guanylyl cyclase; Protein kinase G; K⁺ channel opener; Diazoxide; Pinacidil (Mixcoatl-Zecuatl, T. (531) 87)

α₂-adrenoceptor; Atipamezole; Descending inhibition; 5-HT_{1A} receptor; WAY-100635 (Wei, H. (535) 157)

Sodium channel; Dorsal root ganglion; Substance P; Nerve injury (Akada, Y. (536) 248)

Minocycline; Hyperalgesia; Allodynia; Interleukin-6 (Zanjani, T.M. (538) 66)

Atropine; Hot-plate; Fluoxetine; Naloxone; Streptozotocin; Tail-immersion (Anjaneyulu, M. (538) 80)

Allodynia; Hyperalgesia; Anticonvulsant drug; Diabetic neuropathy; Lacosamide (Beyreuther, B. (539) 64)

Progesterone receptor; Estrogen receptor; Allodynia; Hyperalgesia; Nociception (Kondo, D. (541) 44)

α₂-Adrenoceptor; Atipamezole; Descending inhibition; Locus coeruleus; Noradrenergic antinociception (Wei, H. (551) 41)

Neuropathy

Benfotiamine; Inflammatory pain; Diabetes (Sánchez-Ramírez, G.M. (530) 48)

Chronic constriction injury; Nitric oxide modulator (Naik, A.K. (530) 59)

Diabetes; Neurotrophic factor; Nerve growth factor; Peripheral nerve (Calcutt, N.A. (534) 187)

Calpain; Corpus cavernosum; Diabetes; Endothelium; Erectile dysfunction; Nitric oxide; Smooth muscle (Nangle, M.R. (538) 148)

Neuropathy

mdr1a; *mdr1b*; mrp2; Cisplatin; Mononeuropathy (Balayssac, D. (544) 49)

Diabetes; Muscarinic M₂ receptor; Muscarinic M₃ receptor; mRNA; Cyclohexenonic long-chain fatty alcohol (Shinbori, C. (545) 177)

Neuropeptide Y

Mesenteric artery; Electrical field stimulation; Noradrenaline; Acetylcholine; BIBP 3226; (Non-obese diabetic-mice) (Gradin, K.A. (539) 184)

5-HT; Endothelium; Coronary artery; Contraction; TXA₂ (Tsurumaki, T. (544) 111)

Fluorescent probe; Y₂ receptor; Flow cytometry; Chimeric G protein; Aequorin; BIE0246 (Ziemek, R. (551) 10)

Neuroprotection

Interleukin-1β; Adenosine; Ca²⁺-induced Ca²⁺ releasing system; Neurodegeneration; Hippocampus (Zhu, G. (532) 246)

NMDA; Nitric oxide synthase; Intracerebroventricular (Kitto, K.F. (536) 133)

σ₁ receptors; Retina; Ischemia; Adamantane derivative (Bucolo, C. (536) 200)

Serofendic acid; Glutamate; Mitochondria; Caspase (Kume, T. (542) 69)

Glycyrrhizic acid; Glutamate; NMDA receptor; Neuronal apoptosis; Transcription factor; Ca²⁺ influx (Cherng, J.-M. (547) 10)

Leukotriene receptor antagonist; Pranlukast; Cold injury; Brain oedema; Blood-brain barrier (Qian, X.-D. (549) 35)

Parkinson's disease; PC12 cells; Tempol; MAPK (mitogen-activated protein kinases); Neurotoxicity (Lipman, T. (549) 50)

Ceramide; TPCK (*N*-tosyl-L-phenylalanyl-chloromethyl ketone); Hypoxia-ischemia; Apoptosis; Newborn rat (Feng, Y. (551) 34)

Oxygen/glucose deprivation; Population spike; Phenytoin; Carbamazepine (Tanabe, M. (553) 104)

Neurosteroid

Acute tolerance; In situ hybridization; EEG threshold; Rat brain (Birzniece, V. (535) 125)

GABA_A receptor; α₁-subunit; α₅-subunit; *Xenopus* oocyte (Rahman, M. (547) 37)

Neurotensin

Dopamine; Excitotoxic lesion; Prefrontal cortex; Striatum (Radja, F. (539) 158)

Ventricular contractility; Myocardial norepinephrine; Cardiac hypertrophy (Osadchii, O. (553) 246)

Neurotoxicity

3,4-Methylenedioxymethamphetamine; Minocycline; Serotonin; Dopamine; Microglia (Zhang, L. (544) 1)

Acetylcholinesterase; Alzheimer's disease; Cortical culture; Glutamate; Nicotinic acetylcholine receptor (Takada-Takatori, Y. (549) 19)

Parkinson's disease; PC12 cells; Tempol; MAPK (mitogen-activated protein kinases); Neuroprotection (Lipman, T. (549) 50)

Neurotransmission

Testicular capsule; Adrenoceptor; Contraction; PCR (polymerase chain reaction); Smooth muscle (Jurkiewicz, N.H. (543) 141)

Neurotransmitter

Inhibition; Behavior (Deschaux, O. (535) 177)

Neurotransmitter release

Artery; β -NAD; Adenylyl cyclase; Protein kinase A (Bobalova, J. (536) 128)

Neurotrophic factor

Diabetes; Neuropathy; Nerve growth factor; Peripheral nerve (Calcutt, N.A. (534) 187)

Neutral antagonist

Inverse agonist; Medicinal chemistry; Structure activity relationship (Greasley, P.J. (553) 1)

Neutrophil

Superoxide; NADPH oxidase; Aorta; Aortic valve; HUVEC (human umbilical vein endothelial cell); Fibroblast; Perhexiline (Kennedy, J.A. (531) 13)

Melatonin; Inflammation; Vascular permeability; Endothelial cell (Lotufo, C.M.C. (534) 258)

GEA3162; Thiol oxidation; Store-operated Ca^{2+} entry; Protein tyrosine phosphorylation; Actin reorganization (Hsu, M.-F. (535) 43)

Chymase; Mast cell; IL-8/MIP-2; Eosinophil (Terakawa, M. (538) 175)

Cannabinoid; Transmigration; Chemotaxis; Interleukin 8 (Nilsson, O. (547) 165)

Phosphodiesterase 7A; Phosphodiesterase 4; Th-cell; Immunosuppressant; Cyclosporine; YM-393059 (Yamamoto, S. (550) 166)

Neutrophil adhesion

Protease-activated receptor2 (PAR2); Lung epithelial cell; Rho; Cytoskeleton (Yagi, Y. (536) 19)

Neutrophil infiltration

PARP [Poly (ADP-ribose) polymerase]; Pancreatitis; Adhesion molecules; Inflammation (Mazzon, E. (549) 149)

Neutrophil recruitment

Direct hemoperfusion using polymyxin B immobilized column; Hydrochloric acid-induced lung injury; Anandamide; Growth-related oncogene/cytokine-induced neutrophils chemoattractant-1 (Tsushima, K. (535) 270)

Newborn

Antioxidant; Thiol; Hypoxiareoxygenation; Matrix metalloproteinase (Emara, M. (544) 168)

Newborn rat

Ceramide; TPCK (*N*-tosyl-L-phenylalanyl-chloromethyl ketone); Hypoxia-ischemia; Neuroprotection; Apoptosis (Feng, Y. (551) 34)

NF- κ B

A20; Influenza virus; Bronchial epithelium; Inflammation (Onose, A. (541) 198)

4-*O*-methylgallic acid; ICAM-1; VCAM-1; Endothelial cell (Lee, G. (551) 143)

NF- κ B activation

Platycodin D; HaCaT cells; Apoptosis; Caspase-3 and 8; Fas and Fas ligand (Ahn, K.S. (537) 1)

NF- κ B (nuclear factor kappa-B)

Ferulic acid; NCX 2057(3-(4-hydroxy-3-methoxyphenyl)-2-propenoic acid 4-(nitrooxy)butyl ester); Nitric oxide; Inflammation; RAW 264.7 macrophages (Ronchetti, D. (532) 162)

NF- κ B [nuclear factor-kappa B]

WIN55212-2 [methanone mesylate]; IL-8 [interleukin-8]; I κ B [inhibitory kappa B]; cannabinoid; CB₂ receptor; HT-29 (Mormina, M.E. (540) 183)

NF- κ B (nuclear transcription factor κ B)

iNOS (inducible nitric oxide synthase); eNOS (endothelial nitric oxide synthase); COX-2 (cyclooxygenase-2); *N*-(3-(aminomethyl)benzyl)acetamidine (1400W); L-NAME (*N*^G-nitro-L-arginine methyl ester) (Guo, J.S. (536) 301)

NF- κ B-inducing kinase

Tanshinone IIA; Nuclear factor κ B; I κ B kinase; Mitogen-activated protein kinase; Lipopolysaccharide (Il Jang, S. (542) 1)

NH₄Cl

Ca^{2+} influx; Cellular alkalization; Non-selective Ca^{2+} channels; SKF 96365 (Restini, C.A. (553) 288)

N-hexacosanol

Diabetes; Nephropathy; Malonaldehyde; TGF- β ₁ (transforming growth factor beta-1); PKC (protein kinase C) (Saito, M. (544) 132)

Nicardipine

GEA3162; Guanylin; Human colon; L-*N*^G-nitroarginine methyl ester; Serotonin release (Kojima, S.-i. (550) 162)

Nicorandil

Ischemic skin flap; K_{ATP} channel; Survival rate (Qi, Z. (550) 127)

Nicotinamide adenine dinucleotide phosphate-oxidase

Homocysteine; Porcine coronary artery; BK_{Ca} channel; Superoxide anion (Au, A.L.S. (546) 109)

Nicotine

Opioid; β -endorphin; Dipeptide; Pro-opiomelanocortin; Conditioned place preference (Göktalay, G. (530) 95)

Smoking cessation; Pulmonary hypertension (Paganelli, M.O. (530) 124)

Morphine; Reinstatement; Calcium channel antagonist; Place conditioning; (Rat) (Biala, G. (537) 85)

Ethanol; Conditioned taste aversion; Blood ethanol levels; (Rat) (Korkosz, A. (537) 99)

Cannabinoid system; Drug discrimination; Nicotinic acetylcholine receptor; Rat (Zaniewska, M. (540) 96)

α 7; Nicotinic receptor; [³H]Methyllycaconitine; cAMP; PKC; Upregulation (Nuutinen, S. (544) 21)

Olfactory bulb; Regional cerebral blood flow; Nicotinic receptor; (Rat) (Shiba, K. (546) 148)

DOPA; Dopamine; Release; Cocaine; Methamphetamine; Behavior; Nucleus accumbens; Microdialysis (Izawa, J.-i. (549) 84)

Nicotine receptors

18-Methoxycoronaridine; α -Conotoxin AulB; Mecamylamine; Morphine;

Medial habenula; Interpeduncular nucleus; Drug addiction (Glick, S.D. (537) 94)

$\alpha 4\beta 2$ nicotinic acetylcholine receptor

Xenopus oocyte; HEK-293 cell; Voltage clamp; Heterologous expression (Zwart, R. (539) 10)

Nicotinic acetylcholine receptor

Bradykinin; Paratracheal ganglion neuron; Patch-clamp recording (Rong Zhou, J. (531) 96)

Dopamine release; Noradrenaline release; [^3H]epibatidine binding; [^3H]methyllycaconitine binding; *Xenopus* oocyte (Abin-Carriquiry, J.A. (536) 1)

Cannabinoid system; Drug discrimination; Nicotine; Rat (Zaniewska, M. (540) 96)

Acetylcholinesterase; Alzheimer's disease; Cortical culture; Glutamate; Neurotoxicity (Takada-Takatori, Y. (549) 19)

$\alpha 3\beta 4$ nicotinic acetylcholine receptor

Dextromethorphan; Dextromethorphan analog; *Xenopus* oocyte (Lee, J.-H. (536) 85)

Nicotinic acetylcholine receptor- $\alpha 7$

Strychnine; Brucine; Glycine receptor (Jensen, A.A. (539) 27)

Nicotinic receptor

Acetylcholine; Airway; Muscarinic receptor; Airway smooth muscle (Racké, K. (533) 57)

Ketamine; Acetylcholine; Microdialysis; Spinal cord (Abelson, K.S.P. (534) 122)

Atropine; Bovine chromaffin cell (González-Rubio, J.M. (535) 13)

Psychostimulant; Hypocretin; Immunohistochemistry; Fos; Rat (Pasumarthi, R.K. (535) 172)

$\alpha 7$; Nicotine; [^3H]Methyllycaconitine; cAMP; PKC; Upregulation (Nuutinen, S. (544) 21)

Olfactory bulb; Regional cerebral blood flow; Nicotine; (Rat) (Shiba, K. (546) 148)

Anatoxin-a; Dopamine; Glutamatergic receptor; *In vivo* microdialysis; Nitric oxide; Striatum (Campos, F. (548) 90)

Inhibition; Cholinergic; Associative learning (MacLeod, J.E. (551) 76)

$\alpha 7$ nicotinic receptor

Choline; Acetylcholine; $\alpha 3\beta 4$ nicotinic receptor; Voltage-dependence (González-Rubio, J.M. (535) 53)

$\alpha 7$ Nicotinic receptor

Schizophrenia; Cognition; 5-HT $_3$ receptor; NMDA receptor; Tropisetron (Hashimoto, K. (553) 191)

$\alpha 3\beta 4$ nicotinic receptor

Choline; Acetylcholine; $\alpha 7$ nicotinic receptor; Voltage-dependence (González-Rubio, J.M. (535) 53)

Nifedipine

Aorta; Hypoxia; Noradrenaline; Phenylephrine (Broadley, K.J. (536) 279)

Nitrendipine; ^{45}Ca uptake; Tetrodotoxin-sensitive Na $^+$ channel; Na $^+$ /Ca $^{2+}$ -exchanger; Hippocampal synaptosome (Costa, J. (544) 39)

Nimesulide

Fever; Indomethacin; Cyclooxygenase (Werner, M.F.P. (543) 181)

Nipradilol

Nitric oxide; Glutamate; NMDA receptor; Cerebral cortex (Taguchi, R. (535) 86)

Niranthin

Phyllanthus amarus; Lignan; Inflammation; Platelet activating factor receptor; (Rodent) (Kassuya, C.A.L. (546) 182)

Nitrate

Nitroprusside; Chloride; NKCC1; Bumetanide; Smooth muscle (Valero, M. (553) 205)

Nitroergic

Ghrelin; Cholinergic; Tachykininergic; Stomach; (Rat) (Bassil, A.K. (544) 146)

Nitroergic nerve

Anococcygeus muscle; BAY 41-2272; Soluble guanylyl cyclase; Tadalafil; Nitric oxide (Teixeira, C.E. (530) 157)

Nitric oxide

Angiotensin converting enzyme inhibitor; Dihydropyridine; Endothelial cell; High glucose; Superoxide (Rosenkranz, A.C. (529) 55)

Fibrosarcoma cell (WEFI 164); Opioid (morphine); Opioid receptors (μ , δ , κ); Nitric oxide synthase (Sharifabrizi, A. (530) 33)

Anococcygeus muscle; BAY 41-2272; Soluble guanylyl cyclase; Tadalafil; Nitroergic nerve (Teixeira, C.E. (530) 157)

Coronary blood flow; Coronary vasodilator reserve; Myocardial ischemia; Vasoconstrictor prostanoid (Climent, B. (530) 234)

Human pulmonary artery; Cyclic GMP; Sildenafil (Mauricio, M.D. (530) 259)

Gabapentin; Neuropathic pain; Guanylyl cyclase; Protein kinase G; K $^+$ channel opener; Diazoxide; Pinacidil (Mixcoatl-Zecuatl, T. (531) 87)

Aorta; Homocysteine; Copper; Superoxide; NADPH oxidase (Shukla, N. (531) 201)

Sildenafil; K $^+$ channel; Relaxation; Protein kinase G; Penile resistance artery (Prieto, D. (531) 232)

L- and D-S-nitrosocysteine; Vagal afferents (Lewis, S.J. (531) 254)

Anandamide; Calcitonin gene-related peptide; γ -aminobutyric acid; Spinal cord; Blood pressure (del Carmen García, M. (532) 88)

Ferulic acid; NCX 2057(3-(4-hydroxy-3-methoxyphenyl)-2-propenoic acid 4-(nitrooxy)butyl ester); NF- κ B (nuclear factor kappa-B); Inflammation; RAW 264.7 macrophages (Ronchetti, D. (532) 162)

2',4',6'-Tris(methoxymethoxy) chalcone; Nuclear factor- κ B; Heme oxygenase 1; p42/44 MAPK; GSH (Lee, S.H. (532) 178)

Oxidant; Peroxynitrite; Nitrosative stress; Asthma; COPD (Chronic Obstructive Pulmonary Diseases) (Ricciardolo, F.L.M. (533) 240)

Asthma; Chronic obstructive pulmonary disease (Redington, A.E. (533) 263)

Indomethacin; MK-801; L-NAME; Formalin test; Hyperalgesia (Tassorelli, C. (534) 103)

Pupil diameter; Intraocular pressure; Opioid receptors; Morphine (Bonfiglio, V. (534) 227)

Nipradilol; Glutamate; NMDA receptor; Cerebral cortex (Taguchi, R. (535) 86)

Intracellular calcium; Artery; Human; Acetylcholine (Buus, N.H. (535) 243)

SNC-80; Delta opioid; Hypothermia; L-NAME (Rawls, S.M. (536) 109)

Mexiletine; Vincristine; Tetrodotoxin-resistant Na⁺ channel; Hyperalgesia (Kamei, J. (536) 123)

Ghrelin; Ischemia–reperfusion; Calcitonin gene related peptide; Gastric blood flow; Angiogenesis; Hypoxia inducible factor-1 alpha (Konturek, P.C. (536) 171)

Diabetic neuropathic pain; Hyperalgesia; Curcumin; TNF- α ; Streptozotocin (Sharma, S. (536) 256)

5-hydroxytryptamine; Experimental diabetes; 5-HT_{1A} receptors; Prejunctional inhibition (Garcia, M. (537) 126)

High glucose; Hypertension; Protein kinase C- β II; Vascular smooth muscle cell (Pacheco, M.E. (538) 115)

Calpain; Corpus cavernosum; Diabetes; Endothelium; Erectile dysfunction; Neuropathy; Smooth muscle (Nangle, M.R. (538) 148)

Acyclic nucleotide analogues; HMPA (9-[2-Hydroxy-3-(phosphonomethoxy)-propyl]adenine); Immunostimulation; Cytokine (Potměšil, P. (540) 191)

Carboxymethyl-chitosan; Chondrocyte; Apoptosis; Mitochondrion; Reactive oxygen species (Chen, Q. (541) 1)

Tetrahydrobiopterin; L-DOPA (Abreu-González, P. (541) 33)

Protein kinase B; Human gingival fibroblast; Mitogen-activated protein; Lipopolysaccharide; Luteolin; Nitric oxide synthase (Gutiérrez-Venegas, G. (541) 95)

Lipopolysaccharide; Mitogen-activated kinase phosphatase-1; Cyclooxygenase-2; Signal transduction; RAW 264.7 macrophage; Anti-inflammatory effect (Chen, T.-H. (541) 138)

Adrenergic hyporesponsiveness; Bile duct ligation; Cholestasis; Clonidine; Endogenous opioids; (Rat) (Tavakoli, S. (542) 148)

Adenosine; GABA; Hippocampus (Fragata, I.R. (543) 32)

Hyperhomocysteinemia; Carotid artery; α_{1D} -adrenoceptor; Modulation; Relaxation; Phenylephrine; Oxidative stress (de Andrade, C.R. (543) 83)

Nitrendipine

Nifedipine; ⁴⁵Ca uptake; Tetrodotoxin-sensitive Na⁺ channel; Na⁺/Ca²⁺-exchanger; Hippocampal synaptosome (Costa, J. (544) 39)

Nitric oxide

EDHF; Endothelium; Vasodilation; Nitric oxide synthase; In vivo (Desai, K.M. (546) 120)

Anatoxin-a; Dopamine; Glutamatergic receptor; *In vivo* microdialysis; Nicotinic receptor; Striatum (Campos, F. (548) 90)

Nitric Oxide

Endothelium; α_1 -Adrenoceptor subtype (Mendez, E. (546) 127)

Nitric oxide modulator

Neuropathy; Chronic constriction injury (Naik, A.K. (530) 59)

Nitric oxide synthase

Fibrosarcoma cell (WEFI 164); Opioid (morphine); Opioid receptors (μ , δ , κ); Nitric oxide (Sharifabrizi, A. (530) 33)

Dihydrocucurbitacin B; Adjuvant-induced arthritis; Cyclooxygenase; Tumor necrosis factor- α ; Interleukin-1 β (Escandell, J.M. (532) 145)

Lipopolysaccharide; Prostaglandin; Cyclooxygenase; Uterus (Cella, M. (534) 218)

Reserpine; C57BL/6; Swiss; 7-Nitroindazole; (Mice) (Tadaiesky, M.T. (535) 199)

N-Allylsecoboldine; Acute renal failure; Endotoxemia; α_1 -adrenoceptor antagonist; Tumor necrosis factor- α (Chiao, C.-W. (535) 291)

NMDA; Neuroprotection; Intracerebroventricular (Kitto, K.F. (536) 133)

Protein kinase B; Human gingival fibroblast; Mitogen-activated protein; Lipopolysaccharide; Luteolin; Nitric oxide (Gutiérrez-Venegas, G. (541) 95)

Nitric oxide; EDHF; Endothelium; Vasodilation; In vivo (Desai, K.M. (546) 120)

Airway hyperresponsiveness; Airway smooth muscle; Allergic asthma; Arginine; Argininosuccinate lyase; Argininosuccinate synthase; Citrulline; Guinea pig; Inhibitory nonadrenergic noncholinergic nerve (Maarsingh, H. (546) 171)

Nitroblue tetrazolium

α_1 -adrenoceptor; 5-HT₂ receptor; Hemodynamics; (Rat) (Owen, J.R. (535) 248)

7-Nitroindazole

Reserpine; Nitric oxide synthase; C57BL/6; Swiss; (Mice) (Tadaiesky, M.T. (535) 199)

Nitroglycerin

Lomoxicam; Oxidative stress; Antioxidative effects; Side effects (Sen, S. (541) 191)

Nitroprusside

Nitrate; Chloride; NKCC1; Bumetanide; Smooth muscle (Valero, M. (553) 205)

Nitrosative stress

Nitric oxide; Oxidant; Peroxynitrite; Asthma; COPD (Chronic Obstructive Pulmonary Diseases) (Ricciardolo, F.L.M. (533) 240)

Nitrous oxide

Gene expression; Isoflurane; Anesthesia; Hippocampus; (Rat) (Culley, D.J. (549) 71)

NK₁

Prostanoid; Emesis; Defecation; Ferret; 5-HT₃ (Kan, K.K.W. (544) 153)

NK₂ receptor antagonist

Tachykinins; Neurokinin A; Oral activity; Colon contraction; Gastrointestinal disorders; Bronchoconstriction (Cialdai, C. (549) 140)

NKCC1

Nitroprusside; Nitrate; Chloride; Bumetanide; Smooth muscle (Valero, M. (553) 205)

Genistein; CFTR (cystic fibrosis transmembrane conductance regulator); Smooth muscle; (Rat) (Valero, M.S. (544) 128)

NMDA

DL-AP5; MK-801; Physostigmine; Passive avoidance learning; Retention; Basolateral amygdala; (Rats) (Jafari-Sabet, M. (529) 122)

Ginseng; Ginsenoside Rh₂; (*R*)- or (*S*)-stereoisomer; Polyamine-binding site; Patch-clamp (Lee, E. (536) 69)

Nitric oxide synthase; Neuroprotection; Intracerebroventricular (Kitto, K.F. (536) 133)

NMDA receptor

Nipradilol; Nitric oxide; Glutamate; Cerebral cortex (Taguchi, R. (535) 86)

D-Amino acid oxidase; Anesthetics; Ketamine; Schizophrenia; Serine racemase (Takeyama, K. (540) 82)

Excitotoxicity; Postsynaptic density (Gardoni, F. (545) 2)

Glycyrrhizic acid; Neuroprotection; Glutamate; Neuronal apoptosis; Transcription factor; Ca^{2+} influx (Cherng, J.-M. (547) 10)

Antinociceptive effect; Methyleugenol; GABA_A receptor (Yano, S. (553) 99)

Schizophrenia; Cognition; $\alpha 7$ Nicotinic receptor; 5-HT₃ receptor; Tropisetron (Hashimoto, K. (553) 191)

NMDA receptor antagonist

Morphine; Antinociception; Acute tolerance; Estradiol; Tamoxifen (Shekunova, E.V. (535) 78)

Dizocilpine maleate; Locomotion; Immobility; Catalepsy; Haloperidol (Tang, Y. (537) 77)

N-methyl D-aspartate receptor

Metabotropic glutamate receptor subtype 5; Extracellular signal-regulated protein kinase; Cyclic-AMP responsive element-binding protein; *N*-{4-chloro-2-[(1,3-dioxo-1,3-dihydro-2H-isoindol-2-yl)-methyl]phenyl}-2-hydrobenzamide (Liu, F. (536) 262)

N-nitrosofenfluramine

Fenfluramine; Appetite suppressant; Mitochondrial permeability transition; Mitochondrial dysfunction; Hepatonecrosis; Dietary supplement (Nakagawa, Y. (529) 33)

NO (nitric oxide)

Cannabinoid; Anandamide; NANC (nonadrenergic noncholinergic) relaxation; Corpus cavernosum; (Rat) (Ghasemi, M. (544) 138)

NO (nitric oxide)

Diabetes; Arachidonic acid derivatives; Cyclooxygenase; Endothelin-1; Endothelin ET_A and ET_B receptors; Endothelium; Renal artery (Marrachelli, V.G. (534) 178)

NO (Nitric oxide)

Aminoguanidine; Tolerance; Dependence (Abdel-Zaher, A.O. (540) 60)

NO (nitric oxide) donor

Gastric acid secretion; Gastrin (Shibata, N. (535) 25)

NO (nitric oxide) production

Paw edema; β -endorphin; Granulocytes; Phagocytosis; μ , δ , κ opioid receptors; AO (Albino Oxford) rat; DA (Dark Agouti) rat (Stanojević, S. (549) 157)

NO production

Cordyceps militaris; Cordycepin; Macrophage; Inflammation; Lipopolysaccharide (LPS) (Kim, H.G. (545) 192)

NO release

Guinea pig right atria; Langendorff hearts; Positive inotropic effect; Green tea catechin; Intracellular Ca^{2+} ; Pimobendan (Hotta, Y. (552) 123)

NO-1886

Inflammatory cytokine; Atherosclerosis; Diabetes mellitus (Cai, M. (540) 139)

Nociceptin/orphanin FQ

NOP receptor; Ac-RYYRIK-ol; Isolated tissue; Behavioral assay; (Mice) (Gündüz, Ö. (539) 39)

Nociception

Spinal Fos-like immunoreactivity; Skin incision; Thermal stimulation (Zhu, C.Z. (531) 108)

Progesterone receptor; Neuropathic pain; Estrogen receptor; Allodynia; Hyperalgesia (Kondo, D. (541) 44)

Analgesia; Hot-plate; Inflammation; Rho-kinase; Writhing; Y-27632 (Büyükaşar, K. (541) 49)

Fentanyl; Histamine H₃ receptor agonist; Plasma extravasation; Synergy (Poveda, R. (541) 53)

Anxiety; Antinociception; Diazepam; Yohimbine; Acetylsalicylic acid (Jiménez-Velázquez, G. (547) 83)

Riboflavin; Inflammation; Pain; Edema; Fever; Fibrovascular tissue (Bertollo, C.M. (547) 184)

NO-mediated relaxation

Alendronate; Electrical field stimulation-induced contraction; Lower esophageal sphincter (Takeuchi, T. (537) 155)

Non-cyclase-coupled

Dopamine D₁-like receptor; Cyclase-coupled; Dopamine D₁-like receptor; Dopamine D₁-like:D₂-like receptor interaction; Jaw movement; Orofacial movement; SK&F 83822; SK&F 83959; (Rat) (Fujita, S. (538) 94)

Non-genomic effect

Glucocorticoid; Glucocorticoid-induced leucine zipper (GILZ); Apoptosis; Thymocyte; Genomic effect (Bruscoli, S. (529) 63)

Non-genomic effects

Tamoxifen derivatives; Impermeant triphenylethylene salts; Uterine muscle; Intestinal muscle; Ca^{2+} channels (Marrero-Alonso, J. (532) 115)

Non-mitochondrial pathway

Tricyclic antidepressant; HT29 colorectal tumor cell; Apoptotic cell death; Cell-cycle arrest (Arimochi, H. (541) 17)

(Non-obese diabetic-mice)

Mesenteric artery; Neuropeptide Y; Electrical field stimulation; Noradrenaline; Acetylcholine; BIBP 3226 (Gradin, K.A. (539) 184)

Nonpeptide antagonist

YM218; Vasopressin V_{1A} receptor; Mesangial cell (Tahara, A. (538) 32)

Non-selective Ca^{2+} channels

Ca^{2+} influx; Cellular alkalization; NH_4Cl ; SKF 96365 (Restini, C.A. (553) 288)

Non-steroid anti-inflammatory drug

Aspirin hypersensitivity; Cyclooxygenase; Cysteinyl leukotriene; Lipoxin (Szczeklik, A. (533) 145)

Non-steroidal anti-inflammatory drug

Analgesia; Metamizol; Endogenous opioid; Potentiation (Hernández-Delgadillo, G.P. (546) 54)

Stomach; Gastric; Mucous epithelial cell; Indomethacin; Cyclooxygenase inhibitor (Kavvada, K.M. (549) 41)

Nonsteroidal anti-inflammatory drugs

Anandamide; Endocannabinoids; Fatty-acid ethanolamides; Oleoylethanolamide; Palmitoylethanolamide; Cannabinoid receptors; Rofecoxib; Ibuprofen; Fatty-acid amide hydrolase; Capsazepine; Formalin test; Inflammatory pain (Guindon, J. (550) 68)

Small intestine; Indomethacin; Cyclooxygenase-1; Cyclooxygenase-2 (Menozi, A. (552) 143)

NOP receptor

Nociceptin/orphanin FQ; Ac-RYYRIK-ol; Isolated tissue; Behavioral assay; (Mice) (Gündüz, Ö. (539) 39)

Noradrenaline

In vivo microdialysis; Conditioned fear stress; Li₂CO₃; Serotonin; Clorgyline (Kitaichi, Y. (532) 236)

Aorta; Nifedipine; Hypoxia; Phenylephrine (Broadley, K.J. (536) 279)

Acetylcholine; Cytosolic calcium; Artery; Heart failure; Infarction (Trautner, S. (537) 143)

Mesenteric artery; Neuropeptide Y; Electrical field stimulation; Acetylcholine; BIBP 3226; (Non-obese diabetic-mice) (Gradin, K.A. (539) 184)

Conditioned fear; Selective serotonin reuptake inhibitor; Selective noradrenaline reuptake inhibitor; Serotonin; Anxiety disorder (Inoue, T. (540) 91)

Noradrenaline and 5-hydroxytryptamine uptake

(–)-*Trans*- ϵ -viniferin; Human recombinant MAO isoform; Human platelet; Rat brain synaptosome (Yáñez, M. (542) 54)

Noradrenaline release

Nicotinic acetylcholine receptor; Dopamine release; [³H]epibatidine binding; [³H]methyllycaconitine binding; *Xenopus* oocyte (Abin-Carriquiry, J.A. (536) 1)

Noradrenergic antinociception

α_2 -Adrenoceptor; Atipamezole; Descending inhibition; Locus coeruleus; Neuropathic pain (Wei, H. (551) 41)

Noradrenergic neurons

WIN 55212-2; CP 55940; Cannabinoid CB₁ receptors; Single-unit extracellular recordings; Slice; In vivo (Mendigüen, A. (534) 83)

Norepinephrine

Dopamine D₄ receptor; Polymorphism; Epinephrine; [³⁵S]GTP γ S; Sodium (Czermak, C. (531) 20)

Transporter; Calcium; Membrane traffic (Amano, T. (536) 62)

Intimin; Type III secretion system; Mucosa-adherent bacterium; Cocaine; Enteric nervous system (Chen, C. (539) 116)

RhoA; Endothelial nitric oxide synthase; Vascular endothelial growth factor; Extracellular signal-related kinase; Mitogenic effect; Human umbilical vein endothelial cells (Seya, Y. (553) 54)

Norfloxacin

Biphenylacetic acid; Convulsion; Interleukin-1 β ; (Rats) (Zhang, L.-r. (543) 21)

NSAID

Glioma; Proliferation; COX; Indomethacin (Bernardi, A. (532) 214)

NSAIDs (non-steroidal anti-inflammatory drugs)

Gaultherin; Aspirin; Salicylate; Gastric ulcer (Zhang, B. (530) 166)

Nuclear factor κ B

Tanshinone IIA; NF- κ B-inducing kinase; I κ B kinase; Mitogen-activated protein kinase; Lipopolysaccharide (Il Jang, S. (542) 1)

Nuclear factor-kappa B (NF- κ B)

IgE; Antiallergic drug; I kappa B alpha (I κ B α); Activation-induced cytidine deaminase (AID) (Hanashiro, K. (547) 174)

Nuclear factor-kappaB

Neurodegeneration; Cell death; Amyloid beta; c-Rel; p65 (Pizzi, M. (545) 22)

Nuclear factor- κ B

2',4',6'-Tris(methoxymethoxy) chalcone; Nitric oxide; Heme oxygenase 1; p42/44 MAPK; GSH (Lee, S.H. (532) 178)

Glucocorticoid receptor; Transcription factor; Histone deacetylase; Histone acetyltransferase; Inflammation; Asthma; COPD (chronic obstructive pulmonary disease); Corticosteroid resistance (Barnes, P.J. (533) 2)

Pyrolidine dithiocarbamate; Alveolar bone loss; Reactive oxygen specie; Periodontal disease (Muià, C. (539) 205)

Chroman carboxamide; Interleukin-6; Inflammatory cytokine; Lipopolysaccharide; Macrophage (Hak Kim, B. (543) 158)

Nucleus accumbens

Chronic nicotine; Motor activity; Dopamine; Dorsal striatum (Tammimäki, A. (531) 118)

Dopamine receptor; Striatum; Amitriptyline; Mirtazapine; Sertraline; RT-PCR (Reverse Transcriptase-Polymerase Chain Reaction) (Huzarska, M. (532) 208)

DOPA; Dopamine; Release; Cocaine; Methamphetamine; Nicotine; Behavior; Microdialysis (Izawa, J.-i. (549) 84)

Ontogeny; Adolescent rat; Addiction; Quantitative microdialysis; Mesolimbic system (Badanich, K.A. (550) 95)

Nucleus accumbens shell and core

Dopamine; SB-277011-A (Roberts, C. (534) 108)

Nystatin-perforated patch recording

ATP-sensitive K⁺ channels; Conventional whole-cell configuration; Cytosolic extract; Glibenclamide-sensitivity (Teramoto, N. (531) 34)

Obesity

Appetite; Anorexia; A-77636; Dopamine; Food intake; Meal pattern (Cooper, S.J. (532) 253)

Melanin-concentrating hormone; Indirect calorimetry; Receptor antagonist (Kowalski, T.J. (535) 182)

Obidoxime

Pyridinium oxime; Acetylcholinesterase; Antidote; Pralidoxime; Trimefoxime; HI-6; HL δ -7; Warfare nerve agent; Organophosphorus insecticide (Jokanović, M. (553) 10)

Ob-Rb leptin receptor

Leptin; 2-aminopurine; STAT3 (Signal transducer and activator of transcription 3); ERK (Extracellular signal-regulated kinase); PKR (Double-strand RNA-activated protein kinase) (Hosoi, T. (553) 61)

8-OH-DPAT

Diazepam; Ovariectomy; Anxiety; Menopause; Burying behaviour (Picazo, O. (530) 88)

6-OHDA-lesioned rat

Priming; Histamine H₃ receptor; Dopamine D₁ receptor; Vaguous chewing movement; Catalepsy; Striatum; Microdialysis (Nowak, P. (552) 46)

Olanzapine

Clozapine; Limited access alcohol drinking; Dopamine; Atypical antipsychotic drug; Selectively bred rat line (Ingman, K. (534) 133)

Dopamine D₂-receptor occupancy; In vivo; Risperidone; Dosage; Risperidone (Naiker, D.V. (540) 87)

Systolic blood pressure; Weight gain (Patil, B.M. (551) 112)

Oleylethanolamide

Anandamide; Endocannabinoids; Fatty-acid ethanolamides; Palmitoylethanolamide; Cannabinoid receptors; Rofecoxib; Ibuprofen; Fatty-acid amide hydrolase; Nonsteroidal anti-inflammatory drugs; Capsazepine; Formalin test; Inflammatory pain (Guindon, J. (550) 68)

Olfactory bulb

Tachykinin NK₁ receptor antagonist; L-732,138; Substance P; Antigen; Sensitization; EEG (Electroencephalogram) spike; Cyproheptadine; Olopatadine; Epinastine (Rahman, M.A. (532) 155)

Regional cerebral blood flow; Nicotine; Nicotinic receptor; (Rat) (Shiba, K. (546) 148)

Olfactory discrimination

Pilocarpine; Acetylcholine; Muscarinic receptor; Social recognition memory; Aging; (Rat) (Prediger, R.D.S. (531) 176)

Olopatadine

Tachykinin NK₁ receptor antagonist; L-732,138; Substance P; Antigen; Sensitization; EEG (Electroencephalogram) spike; Olfactory bulb; Cyproheptadine; Epinastine (Rahman, M.A. (532) 155)

Substance P release; Dorsal root ganglion; Bradykinin; Capsaicin; Transient receptor potential vanilloid 1 (Tang, H.-B. (552) 78)

Olopatadine hydrochloride

Contact dermatitis; c-Fos; Substance P; Eczematous lesion (Hamada, R. (547) 45)

Omalizumab

Allergic asthma; Anti-IgE-antibody; Allergic respiratory diseases; Monoclonal antibody anti-IgE (D'Amato, G. (533) 302)

Omeprazole

Lansoprazole; Internal mammary artery; Radial artery; Vascular smooth muscle tone; Relaxation (Naseri, E. (531) 226)

4-O-methylgallic acid

ICAM-1; VCAM-1; NF- κ B; Endothelial cell (Lee, G. (551) 143)

Ontogeny

Adolescent rat; Nucleus accumbens; Addiction; Quantitative microdialysis; Mesolimbic system (Badanich, K.A. (550) 95)

Opioid

Cerebral circulation; Signal transduction; Prostaglandin; Brain injury (Armstead, W.M. (529) 129)

Narcotics; Cannabinoid; Pain (Roberts, J.D. (530) 54)

Nicotine; β -endorphin; Dipeptide; Pro-opiomelanocortin; Conditioned place preference (Göktalay, G. (530) 95)

Antianalgesia; Analgesia; Spinal cord; Knockout mice (Wu, H.-e. (531) 103)

Remifentanyl; Analgesia; *Mu* opioid receptor; *Rana pipiens* (Mohan, S. (534) 89)

Cannabinoid; Synergy; Enhanced antinociception (Williams, I.J. (539) 57)

Neurogranin; RC3 (Tang, L. (542) 106)

Morphine; Antinociceptive activity; Tetrahydropyran derivative (Marinho, B.G. (550) 47)

Mitogen-activated protein kinase; Antianalgesia; Analgesia; Spinal cord (Wu, H.-e. (550) 91)

Opioid agonist

Morphine; Infection; Intestinal transit; Osmotic minipump (Feng, P. (534) 250)

Opioid dependence

IRAS; Imidazoline I₁ receptor; Agmatine; Intracellular Ca²⁺ concentration; CREB phosphorylation; ERK phosphorylation; c-Fos expression (Wu, N. (548) 21)

Opioid (morphine)

Fibrosarcoma cell (WEFI 164); Opioid receptors (μ , δ , κ); Nitric oxide; Nitric oxide synthase (Sharifabrizi, A. (530) 33)

Opioid peptide

Methamphetamine; Cocaine; Immediate early gene; Basal ganglia (Horner, K.A. (532) 61)

 μ -opioid peptide receptor

Morphine; Tramadol; Buprenorphine; Fentanyl; Antinociception; Knock-out mice; α_2 -adrenoceptor (Özdoğan, Ü.K. (529) 105)

 μ -opioid receptor

Chronic desipramine treatment; α_2 -adrenoceptor; κ -opioid receptor; Sympathetic innervation; Myenteric plexus (Canciani, L. (553) 269)

 μ -Opioid receptor

β -Casomorphin-5; Spontaneous alternation; Passive avoidance; Scopolamine (Sakaguchi, M. (530) 81)

Tyr-D-Arg-Phe-sarcosine; Dermorphin; Antinociception; Spinal cord; (Mouse) (Mizoguchi, H. (540) 67)

7-Hydroxymitragynine; Antinociception; Gastrointestinal transit; Morphine (Matsumoto, K. (549) 63)

Fluvoxamine; 5-HT; Sciatic nerve ligation; Chronic pain; δ -Opioid receptor (Nozaki, C. (552) 99)

 δ -Opioid receptor

Fluvoxamine; 5-HT; Sciatic nerve ligation; Chronic pain; μ -Opioid receptor (Nozaki, C. (552) 99)

 μ -Opioid receptor

7-Hydroxymitragynine; Antinociception; Gastrointestinal transit; Morphine (Matsumoto, K. (549) 63)

Opioid receptor

Postherpetic neuralgia; Herpes zoster; Morphine; Nalfurafine; Analgesia (Takasaki, I. (550) 62)

 μ , δ , κ opioid receptors

Paw edema; β -endorphin; Granulocytes; Phagocytosis; NO (nitric oxide) production; AO (Albino Oxford) rat; DA (Dark Agouti) rat (Stanojević, S. (549) 157)

Opioid receptor agonists

Methamphetamine; Self-injurious behavior (Mori, T. (532) 81)

Opioid receptor antagonist

Knockout mice; Food intake; Body weight (Zhang, J. (545) 147)

Opioid receptor binding

Analgesia; Buprenorphine; Pseudoirreversible binding (Englberger, W. (534) 95)

Opioid receptors

Pupil diameter; Intraocular pressure; Morphine; Nitric oxide (Bonfiglio, V. (534) 227)

Opioid receptors (mu, delta, kappa)

Fibrosarcoma cell (WEFI 164); Opioid (morphine); Nitric oxide; Nitric oxide synthase (Sharifabrizi, A. (530) 33)

Oral activity

Tachykinins; Neurokinin A; NK₂ receptor antagonist; Colon contraction; Gastrointestinal disorders; Bronchoconstriction (Cialdai, C. (549) 140)

Oral administration

Bladder; Submaxillary gland; Tolterodine; Oxybutynin; Muscarinic receptor binding; Salivation (Oki, T. (529) 157)

Oral mucositis

Polaprezinc; Dexamethasone; Azulene; 5-fluorouracil (Mitsuhashi, H. (551) 152)

Organic anion transporter

Probenecid; TR— rat; Adefovir clearance (Servais, A. (540) 168)

Organic cation transport

Amantadine; Ammonium ion; Bicarbonate; Kidney (Goralski, K.B. (541) 87)

Organophosphorus insecticide

Pyridinium oxime; Acetylcholinesterase; Antidote; Pralidoxime; Obidoxime; Trimedoxime; HI-6; HLö-7; Warfare nerve agent (Jokanović, M. (553) 10)

Orofacial movement

Dopamine D₁-like receptor; Cyclase-coupled; Dopamine D₁-like receptor; Non-cyclase-coupled; Dopamine D₁-like:D₂-like receptor interaction; Jaw movement; SK&F 83822; SK&F 83959; (Rat) (Fujita, S. (538) 94)

Osmotic minipump

Morphine; Opioid agonist; Infection; Intestinal transit (Feng, P. (534) 250)

Osteoblast

Metformin; Osteoporosis; Diabetes mellitus (Cortizo, A.M. (536) 38)

GABA; Betaine/GABA transporter; [³H]GABA accumulation (Fujimori, S. (550) 24)

Osteoblasts

Curcumin; Polyphenol; p21; Proliferation; Mineralization (Notoya, M. (534) 55)

Piceatannol; Cell differentiation; Alkaline phosphatase; Osteocalcin; Bone morphogenetic protein-2 (Chang, J.-K. (551) 1)

Osteoclasts

Macrophage colony stimulating factor; Imatinib; Bone resorption; Apoptosis (El Hajj Dib, I. (551) 27)

Osteocalcin

Piceatannol; Osteoblast; Cell differentiation; Alkaline phosphatase; Bone morphogenetic protein-2 (Chang, J.K. (551) 1)

Osteoporosis

Metformin; Osteoblast; Diabetes mellitus (Cortizo, A.M. (536) 38)

Otitis media with effusion

Dexamethasone; Fluid absorption; Middle ear; Na⁺/H⁺ exchanger (Choi, J.Y. (536) 12)

Outlet obstruction

Potassium channel opener; Detrusor smooth muscle; Smooth muscle relaxation; ATP-sensitive potassium channels; Sulfonylurea receptor; Overactive bladder (Milicic, I. (532) 107)

Ovalbumin

Airway hyperresponsiveness; Airway smooth muscle; Allergy; Asthma; Contraction; Passive sensitization; Rho-kinase; Y-27632; (Guinea pig) (Schaaßma, D. (531) 145)

Ovariectomy

Diazepam; 8-OH-DPAT; Anxiety; Menopause; Burying behaviour (Picazo, O. (530) 88)

Overactive bladder

Potassium channel opener; Detrusor smooth muscle; Smooth muscle relaxation; ATP-sensitive potassium channels; Sulfonylurea receptor; Outlet obstruction (Milicic, I. (532) 107)

Oxazolidinone

Ranbezolid; Pressor response; Tyramine; Cold remedies (Naruganahalli, K.S. (545) 167)

Oxidant

Nitric oxide; Peroxynitrite; Nitrosative stress; Asthma; COPD (Chronic Obstructive Pulmonary Diseases) (Ricciardolo, F.L.M. (533) 240)

Vitamin C; Oxidative stress; Shear stress; ATP; Dehydroascorbic acid; Anion channels (Davis, K.A. (548) 36)

Oxidant stress

American ginseng; Berry; Polyphenols; Caffeic acid; Chlorogenic acid; Antioxidant; Fluorescence; Catalase (Mehendale, S.R. (553) 209)

Oxidants

Antioxidants; Lungs; Glutathione; Superoxide dismutase; Thioredoxin (Rahman, I. (533) 222)

Oxidation

Iron overload; Liver; Flavonoids; Baicalin; Quercetin (Zhang, Y. (535) 263)

Oxidative injury

Acetaminophen; β-glucan; Glutathione; Lipid peroxidation; Tumour necrosis factor-alpha (Toklu, H.Z. (543) 133)

Oxidative stress

Puerarin; Pancreatic islet; Insulin; Apoptosis (Fu-Liang, X. (529) 1)

PPAR-γ (peroxisome proliferator-activated receptor-γ); PPAR-γ agonist; Hippocampus; Ischemia/reperfusion; Inflammation (Collino, M. (530) 70)

Vitamin C; Vitamin E; Cecal ligation and puncture; Cytochrome P450 isozyme (Kim, J.-Y. (534) 202)

Cyclooxygenase; Naproxen; Rofecoxib; Immobilization stress (Dhir, A. (535) 192)

Honokiol; Magnolol; Excitotoxicity; Cerebellar granule cell (Lin, Y.-R. (537) 64)

Protocatechuic acid; Hydrogen peroxide; Apoptosis; PC12 cells (Guan, S. (538) 73)

Anesthetics; Propofol; Lymphocyte; Neuron (Chikutei, K.-i. (540) 18)

Hypoxic hypoxia; Melatonin; Lipid peroxidation; Liver (El-Sokkary, G.H. (540) 107)

Lornoxicam; Nitroglycerin; Antioxidative effects; Side effects (Sen, S. (541) 191)

Aging; Glutathione; Gene expression; Fibroblast (Braam, B. (542) 154)

Thymoquinone; Forebrain ischemia; Hippocampal damage (Al-Majed, A.A. (543) 40)

Hyperhomocysteinemia; Carotid artery; α_{1D} -adrenoceptor; Modulation; Relaxation; Phenylephrine; Nitric oxide (de Andrade, C.R. (543) 83)

N-Acetylcysteine; Sucrose; Lipid profile; Glycaemia (Diniz, Y.S. (543) 151)

Diabetes; Superoxide dismutase; N -acetylcysteine; Myocardial dysfunction (Xia, Z. (544) 118)

Redox proteomics; Alzheimer's disease; Protein oxidation; Hippocampus; Inferior parietal lobule (Butterfield, D.A. (545) 39)

Vitamin C; Oxidant; Shear stress; ATP; Dehydroascorbic acid; Anion channels (Davis, K.A. (548) 36)

Alzheimer's disease; Antioxidant; Cognitive impairment; Colchicine; Cyclooxygenase inhibitor (Kumar, A. (551) 58)

Oxidized ATP

P2X₇ receptor; Astrocytes; β -actin; RBA-2 astrocytes (Chen, H.B. (550) 1)

Oxidized low-density lipoprotein

Isorhamnetin; Endothelial cell; Lectin-like low-density lipoprotein receptor; p38MAPK (Bao, M. (547) 22)

Oxybutynin

Bladder; Submaxillary gland; Oral administration; Tolterodine; Muscarinic receptor binding; Salivation (Oki, T. (529) 157)

Oxycodone

Diabetes; κ -Opioid receptors; Hyperalgesia; Antinociception (Nozaki, C. (535) 145)

Oxygen free radical

(–)-Epigallocatechin-3-gallate; Streptozotocin; Glucose; Insulin (Yun, S.-Y. (541) 115)

Oxygenation

Mesenteric traction; Cyclooxygenase-inhibitor; Prostaglandin; Hemodynamics (Bucher, M. (536) 296)

Oxygen-glucose deprivation

Isoflurane; Preconditioning; Extracellular signal-regulated kinase; Early growth response gene 1; Bcl-2 (Zuo, Z. (542) 84)

Oxygen/glucose deprivation

Population spike; Neuroprotection; Phenytoin; Carbamazepine (Tanabe, M. (553) 104)

p21

Curcumin; Polyphenol; Osteoblasts; Proliferation; Mineralization (Notoya, M. (534) 55)

P2X receptor

Vanadium; Vanadate; Decavanadate; ATP (Michel, A.D. (534) 19)

P2X₇ receptor

Oxidized ATP; Astrocytes; β -actin; RBA-2 astrocytes (Chen, H.B. (550) 1)

P2Y receptor

ATP; UTP; HaCaT cell; Keratinocyte; Interleukin-6 (Yoshida, H. (540) 1)

Enteric inhibitory neurotransmission; Calcium store; Calcium-dependent potassium channel; Mouse colon; Intracellular microelectrode (Zizzo, M.G. (544) 174)

Melatonin; Diadenosine tetraphosphate; Dinucleotides; Melatonin receptor; Tear secretion (Hoyle, C.H.V. (552) 159)

P2Y₁ receptor

Bone marrow; Erythroblast; Intracellular calcium; CaMKII; PKC (Paredes-Gamero, E.J. (534) 30)

P2Y₁₄ receptor

Human neutrophil; Adenylyl cyclase; Elastase release (Scrivens, M. (543) 166)

p38 MAPK

Shiga toxin; Tyrosine kinase; Tyrosine kinase inhibitor; Tyrphostin 47 (Ikeda, M. (546) 36)

p38 MAPK (p38 mitogen-activated protein kinase)

Ca²⁺ channels; Endothelium; Porcine coronary arteries; Raloxifene; Vaso-relaxation (Moritz, A. (545) 153)

p38 mitogen-activated protein kinase

Diabetic nephropathy; Emodin; Renal dysfunction (Wang, J. (553) 297)

Airway smooth muscle; Airway wall remodelling; Bronchial hyperresponsiveness (Nath, P. (544) 160)

p38MAPK

Isorhamnetin; Endothelial cell; Lectin-like low-density lipoprotein receptor; Oxidized low-density lipoprotein (Bao, M. (547) 22)

p42/44 MAPK

2',4',6'-Tris(methoxymethoxy) chalcone; Nitric oxide; Nuclear factor- κ B; Heme oxygenase 1; GSH (Lee, S.H. (532) 178)

p47^{phox}

SHR (spontaneously hypertensive rat); Spontaneous tone; Superoxide (Lodi, F. (544) 97)

p53

Mitotic catastrophe; Transcriptome; WP631; Anthracycline; Jurkat T lymphocyte (Mansilla, S. (540) 34)

p65

Nuclear factor-kappaB; Neurodegeneration; Cell death; Amyloid beta; c-Rel (Pizzi, M. (545) 22)

Pactimibe

ACAT (Acyl-coenzyme A:cholesterol acyltransferase); Hypercholesterolemia; Atherosclerosis (Kitayama, K. (540) 121)

Hypercholesterolemia; ACAT (Acyl-coenzyme A:cholesterol acyltransferase); Inhibitor (Kitayama, K. (543) 123)

Paeonol

Action potential; Sodium current; Ventricular myocyte; Whole-cell patch-clamp (Ma, Y.-I. (545) 87)

Pain

Narcotics; Opioid; Cannabinoid (Roberts, J.D. (530) 54)

Hyperalgesia; Carrageenan; Single motor unit; Behavioral (Molina, C. (532) 50)

Capsaicin; Anandamide; Protons; TRPV1 (transient receptor potential vanilloid 1); Ligand-gated ion channel (Bianchi, B.R. (537) 20)

mas-like G protein-couple receptor; Salusin (Wang, Z. (539) 145)

Dopamine; Apomorphine; (S)-(–)-sulpiride; Domperidone; Tail-flick; Paw pressure; Formalin (Pelissier, T. (546) 40)

Riboflavin; Inflammation; Nociception; Edema; Fever; Fibrovascular tissue (Bertollo, C.M. (547) 184)

Improgan; Analgesia; Cannabinoid; Cannabinoid CB₁ receptor; Tetrahydrocannabinol (Nalwalk, J.W. (549) 79)

Estrogen receptor beta; Inflammation (Leventhal, L. (553) 146)

Palladacycle

K562; *Bcl-2/Bax*; Apoptosis; Lysosomes; Acridine orange (Barbosa, C.M.V. (542) 37)

Palmitoylethanolamide

Anandamide; Endocannabinoids; Fatty-acid ethanolamides; Oleoylethanolamide; Cannabinoid receptors; Rofecoxib; Ibuprofen; Fatty-acid amide hydrolase; Nonsteroidal anti-inflammatory drugs; Capsazepine; Formalin test; Inflammatory pain (Guindon, J. (550) 68)

Panax ginseng

Diabetes mellitus; Ginsenoside Re; Antihyperglycemia; Antihyperlipidemia; Antioxidant (Cho, W.C.S. (550) 173)

Pancreatic islet

Puerarin; Oxidative stress; Insulin; Apoptosis (Fu-Liang, X. (529) 1)

Resveratrol; Insulin secretion (Szkudelski, T. (552) 176)

Pancreatic lipase

Hypertriglyceridemia; Hypercholesterolemia; Crocin; (Rat) (Sheng, L. (543) 116)

Pancreatitis

Resveratrol; Inflammation; Scavenger; Rat (Szabolcs, A. (532) 187)

PARP [Poly (ADP-ribose) polymerase]; Adhesion molecules; Inflammation; Neutrophil infiltration (Mazzon, E. (549) 149)

Panic

Animal model; Anxiety; Anticonvulsant drug; (Rat) (Dombrowski, P.A. (537) 72)

Contextual fear conditioning; Fluoxetine; Desipramine; Serotonin (Santos, J.M. (542) 121)

Panic disorder

Perinatal protein malnutrition; Dorsal raphe nucleus; Fluoxetine; 5-HT_{1A} receptor (Sodero, A.O. (532) 230)

Papillary muscle

Tramadol; Enantiomers; Aorta; Vasodilatation; Naloxone (Raimundo, J.M. (530) 117)

PAR2 (proteinase-activated receptor-2)

Itch; Histamine; Pyrillamine (Shimada, S.G. (530) 281)

PAR-2 receptor

Nafamostat mesilate; Trypsin; Scratching; Itch; (Mouse) (Ui, H. (530) 172)

Paracetamol

Adenosine antagonist; Caffeine; Antinociception; Adenosine A_{2A} receptor knockout mice (Godfrey, L. (531) 80)

CB₁ receptor; Analgesic activity (Ottani, A. (531) 280)

Diclofenac; Aminopyrine; Prostaglandin; Cyclooxygenase-3; Writhing; (Cyclooxygenase knockout mice) (Ayoub, S.S. (538) 57)

Para-methoxyamphetamine

3,4-methylenedioxymethamphetamine; Serotonin transporter; Neurodegeneration; 5-HT (Callaghan, P.D. (546) 74)

Paraoxonase

HIV; Monocyte chemoattractant protein-1; Postprandial; Metformin; Rosiglitazone (Coll, B. (544) 104)

Paratracheal ganglion neuron

Bradykinin; Nicotinic acetylcholine receptor; Patch-clamp recording (Rong Zhou, J. (531) 96)

Parkinson's disease

Desferrioxamine; Iron (III); 1-Methyl-4-phenylpyridinium ion (MPP⁺); Hydroxyl radical (Obata, T. (539) 34)

Basal ganglia; Huntington's disease; Mitochondria (Di Filippo, M. (545) 65)

mGlu5 receptor; 'in situ' hybridisation; mRNA; [³H]MPEP ligand binding; Reserpine; Rat (Ismayilova, N. (545) 134)

Adenosine A_{2a} receptor antagonist; ST1535; MPTP treated primate (Rose, S. (546) 82)

Rotigotine; Dopamine agonist; Animal models depression (Bertaina-Anglade, V. (548) 106)

PC12 cells; Tempol; MAPK (mitogen-activated protein kinases); Neurotoxicity; Neuroprotection (Lipman, T. (549) 50)

PARP [Poly (ADP-ribose) polymerase]

Pancreatitis; Adhesion molecules; Inflammation; Neutrophil infiltration (Mazzon, E. (549) 149)

Partial agonism

Aripiprazole; Dopamine D₂ receptor (Wood, M.D. (546) 88)

Partial agonist

Dopamine D₂ receptor; Antipsychotics; Sf9 cell; Prolactin; (Rat) (Cosi, C. (535) 135)

Passive avoidance

β-Casomorphin-5; μ-Opioid receptor; Spontaneous alternation; Scopolamine (Sakaguchi, M. (530) 81)

Passive avoidance learning

NMDA; DL-AP5; MK-801; Physostigmine; Retention; Basolateral amygdala; (Rats) (Jafari-Sabet, M. (529) 122)

Passive avoidance test

Gomisin A; Memory; Y-maze test; Morris water maze; Acetylcholinesterase (Kim, D.H. (542) 129)

Passive sensitization

Airway hyperresponsiveness; Airway smooth muscle; Allergy; Asthma; Contraction; Ovalbumin; Rho-kinase; Y-27632; (Guinea pig) (Schaafsma, D. (531) 145)

Patch clamp

Tramadol; 5-HT transporter; 5-HT₃ receptor; Emesis; [³H]5-HT uptake (Barann, M. (531) 54)

GABA_A receptors; IPSC; Substantia gelatinosa; Propofol; Midazolam; (Mouse) (Takahashi, A. (553) 120)

Patch-clamp

Strychnine; Glycine receptor; [³H]strychnine binding; Antimalarial drug (Philippe, G. (530) 15)

QT prolongation; HERG; KCNQ1; Estradiol (Möller, C. (532) 44)

Ginseng; Ginsenoside Rh₂; (*R*)- or (*S*)-stereoisomer; NMDA; Polyamine-binding site (Lee, E. (536) 69)

Patch-clamp recording

Bradykinin; Nicotinic acetylcholine receptor; Paratracheal ganglion neuron (Rong Zhou, J. (531) 96)

Patch-clamp technique

Myotonia; Flecainide; Anti-arrhythmia agent; Sodium channel (Aoike, F. (532) 24)

Paw edema

Carrageenan; Superoxide anion; Peroxynitrite; SOD mimetic; Hyperalgesia; TEMPOL (Khattab, M.M. (548) 167)

β-endorphin; Granulocytes; Phagocytosis; NO (nitric oxide) production; μ, δ, κ opioid receptors; AO (Albino Oxford) rat; DA (Dark Agouti) rat (Stanojević, S. (549) 157)

Paw inflammation

Scorpion BmK venom; Spontaneous pain; Thermal hypersensitivity; Mechanical hypersensitivity (Bai, Z.-T. (552) 67)

Paw pressure

Pain; Dopamine; Apomorphine; (*S*)-(-)-sulpiride; Domperidone; Tail-flick; Formalin (Pelissier, T. (546) 40)

PC-09

Platelet aggregation; Cyclic AMP; Thromboxane B₂; Glycoprotein IIb/IIIa (Cherng, S.-C. (532) 32)

PC12 cells

1-Methyl-4-phenylpyridinium; Piperine; Mitochondrial membrane permeability; Cell injury (Lee, C.S. (537) 37)

Protocatechuic acid; Hydrogen peroxide; Oxidative stress; Apoptosis (Guan, S. (538) 73)

Parkinson's disease; Tempol; MAPK (mitogen-activated protein kinases); Neurotoxicity; Neuroprotection (Lipman, T. (549) 50)

***p*-Chlorophenylalanine**

5-HT_{1B} receptor; CP 94253; RU 24969; Maximal electroshock; Pentylene-tetrazol-induced seizure; (Mice) (Wesołowska, A. (541) 57)

PCR (polymerase chain reaction)

Testicular capsule; Adrenoceptor; Neurotransmission; Contraction; Smooth muscle (Jurkiewicz, N.H. (543) 141)

PDE4D

Phosphodiesterase-4; Cilamifast; Dexamethasone; Inflammation; Cytokines; Goblet cell; Airways hyperresponsiveness; Asthma (Deng, Y.-m. (547) 125)

PDGF (Platelet-derived growth factor)

Airway remodeling; Asthma; G protein coupled receptor; TGF-β (Transforming growth factor-β) (Gosens, R. (535) 253)

Peak frequency

Scopolamine; Radial maze; Hippocampus; Theta power (Masuoka, T. (539) 76)

PEG-sTNFRI (polyethylene glycol linked to soluble TNF receptor p55)

TNF (tumor necrosis factor); GH (growth hormone); IGF-I (insulin-like growth factor-I); Arthritis; Adjuvant-induced (Granado, M. (536) 204)

Penile resistance artery

Sildenafil; K⁺ channel; Relaxation; Nitric oxide; Protein kinase G (Prieto, D. (531) 232)

Pentoxifylline

Carboxylated metabolite; TNF-α; Macrophage; Endothelium; ABC transporter (Fantin, M. (535) 301)

Pentylenetetrazol-induced seizure

5-HT_{1B} receptor; CP 94253; RU 24969; *p*-Chlorophenylalanine; Maximal electroshock; (Mice) (Wesołowska, A. (541) 57)

Perfusion

Heart; Moxonidine; Atrial natriuretic peptide; Imidazoline receptors; α₂-adrenoceptors (Mukaddam-Daher, S. (541) 73)

Perfusion pressure

Ascorbate; EDHF (endothelium-derived hyperpolarizing factor); Flow; Flow-dependent vasodilatation; Vasodilatation (Stirrat, A. (534) 152)

Perhexiline

Superoxide; NADPH oxidase; Neutrophil; Aorta; Aortic valve; HUVEC (human umbilical vein endothelial cell); Fibroblast (Kennedy, J.A. (531) 13)

Perinatal protein malnutrition

Dorsal raphe nucleus; Fluoxetine; 5-HT_{1A} receptor; Panic disorder (Sodero, A.O. (532) 230)

Periodontal disease

Pyrrolidine dithiocarbamate; Nuclear factor-κB; Alveolar bone loss; Reactive oxygen specie (Muià, C. (539) 205)

Peripheral

CIAA; Celecoxib; Rofecoxib; COX-2 (Okumura, T. (539) 125)

Peripheral arterial disease

Gα_{q/11} inhibitor; Platelet aggregation; Vasodilation; Local administration (Uemura, T. (536) 154)

Peripheral nerve

Diabetes; Neuropathy; Neurotrophic factor; Nerve growth factor (Calcutt, N.A. (534) 187)

Peripheral tissue

Voltage-gated Na⁺ channel; α subunit; β subunit; mRNA expression; (Human) (Candenas, L. (541) 9)

Peripheral-type benzodiazepine receptor

Cancer; Ehrlich tumor; Diazepam; Ro5-4864; Proliferation (Sakai, M. (550) 8)

Peristalsis

Bradykinin; B₂ receptor; Ileum; FR173657; Icatibant (Hoe 140) (Chan, S.K. (539) 108)

Perivascular nerve

Histamine; Vasodilation; Vasoconstriction; Rat mesenteric resistance artery (Jin, H. (529) 136)

Peroxisome proliferator-activated receptor γ

Insulin resistance; Diabetic nephropathy; YM440; Zucker fatty rat; Hyperlipidemia (Nakano, R. (549) 185)

Peroxisome proliferator-activated receptors

Diabetes; Angiotensin converting enzyme (Toba, H. (549) 124)

Peroxisome proliferator-activated receptors (PPARs)

High-density lipoprotein (HDL); Liver X receptor α ; Apolipoprotein A-I (apoA-I); ATP binding cassette transporter A1 (ABCA1) (Guo, L. (551) 80)

Peroxynitrite

Nitric oxide; Oxidant; Nitrosative stress; Asthma; COPD (Chronic Obstructive Pulmonary Diseases) (Ricciardolo, F.L.M. (533) 240)

Paw edema; Carrageenan; Superoxide anion; SOD mimetic; Hyperalgesia; TEMPOL (Khatab, M.M. (548) 167)

Pertussis toxin

Guanylyl cyclase; Estrogen receptor; Tamoxifen; Methylene blue (Alex, A.B. (546) 102)

p-Glycoprotein

Corticosteroids; Breast cancer resistance protein; BCRP; Calcein accumulation; ATPase activity (Cooray, H.C. (531) 25)

P-glycoprotein

Bioavailability; Deoxygalactonojirimycin; Glycolipid; Drug transport; Glucosylceramide synthase inhibitor (Norris-Cervetto, E. (530) 195)

P-glycoprotein

Epilepsy; Pharmacoresistance; Multidrug transporter; Pharmacogenetics (Baars, C. (550) 54)

pH change

Locus coeruleus; Propofol (Chen, C.-L. (545) 115)

Phagocytosis

Paw edema; β -endorphin; Granulocytes; NO (nitric oxide) production; μ , δ , κ opioid receptors; AO (Albino Oxford) rat; DA (Dark Agouti) rat (Stanojević, S. (549) 157)

Pharmacogenetics

P-glycoprotein; Epilepsy; Pharmacoresistance; Multidrug transporter (Baars, C. (550) 54)

Pharmacokinetic interaction

2-Phosphonomethyl-pentanedioic acid; Glutamate carboxypeptidase II; Electroconvulsive threshold; Maximal electroshock; Antiepileptic drug; Valproate (Luszczki, J.J. (531) 66)

ACEA (Arachidonyl-2-chloroethylamide); Cannabinoid CB₁ receptor; Chimney test; Interaction index; Isobolographic transformation; Maximal electroshock; Neuromuscular grip strength; Protective index; Valproic acid (Luszczki, J.J. (547) 65)

Pharmacoresistance

P-glycoprotein; Epilepsy; Multidrug transporter; Pharmacogenetics (Baars, C. (550) 54)

Phenobarbital

CYP2E1; Chlorzoxazone; Brain; Protein induction; (Monkey) (Lee, A.M. (552) 151)

Phenothiazine

Antipsychotic; Cyamemazine; *h*ERG; Arrhythmia; QT prolongation; Guinea pig (Crumb, W. (532) 270)

Phenylephrine

α_1 -Adrenoceptors; Blood pressure; 5-HT receptor ligands; Pithed rat (Centurión, D. (535) 234)

Aorta; Nifedipine; Hypoxia; Noradrenaline (Broadley, K.J. (536) 279)

Hyperhomocysteinemia; Carotid artery; α_{1D} -adrenoceptor; Modulation; Relaxation; Nitric oxide; Oxidative stress (de Andrade, C.R. (543) 83)

Phenytoin

Oxygen/glucose deprivation; Population spike; Neuroprotection; Carbamazepine (Tanabe, M. (553) 104)

3-Phenyltropane

Locomotor activity; Drug discrimination; Self-administration; Dopamine transporter (Carroll, F.I. (553) 149)

Phenyzoline

Morphine analgesia modulation; I₂-IBS (I₂-imidazoline binding sites); I₂-IBS ligands; Diphenyzoline (Gentili, F. (553) 73)

Phorbol 12-myristate 13-acetate

β_2 -adrenoceptor desensitization; Airway smooth muscle; Protein kinase C; Fenoterol; GF 109203X (Boterman, M. (529) 151)

Phorbol myristate acetate

Eosinophil; Cyclic adenosine monophosphate; Signal transduction; Protein kinase; Reactive oxygen species; Human (Ezeamuzie, C.I. (543) 174)

3Phosphatidylinositol-dependent kinase-1

Anaesthetic preconditioning; Xenon; Cardiac preconditioning; Mitochondrial adenosine triphosphate dependent potassium channel; Protein kinase C (Weber, N.C. (539) 1)

Phosphatidyl inositol-specific phospholipase C

Carbocisteine; Glycosyltransferase mRNA; Sialyl-Lewis x; NCI-H292; TNF- α (Ishibashi, Y. (530) 223)

Phosphatidylserine

Cell volume; Cytosolic ATP; GSH (glutathione); Apoptosis; Calcium (Akel, A. (532) 11)

Phosphodiesterase

Phosphodiesterase inhibitor; Asthma; Chronic obstructive pulmonary disease; Cilomilast; Roflumilast; Rolipram (Fan Chung, K. (533) 110)

Ibudilast; Neurological disease; Respiratory disease (Gibson, L.C.D. (538) 39)

Cardiac function; Cyclic GMP; Endothelium; Hypertension (Ferreira-Melo, S.E. (542) 141)

Phosphodiesterase 4

2,4,6-trinitro-1-chlorobenzene; Rolipram; Dermatitis (Harada, D. (532) 128)

Phosphodiesterase 7A; Interleukin-2; Tumor necrosis factor- α ; T-cell; YM-393059; YM976 (Yamamoto, S. (541) 106)

PDE4D; Cilamylast; Dexamethasone; Inflammation; Cytokines; Goblet cell; Airways hyperresponsiveness; Asthma (Deng, Y.-m. (547) 125)

Phosphodiesterase 7A; Th-cell; Neutrophil; Immunosuppressant; Cyclosporine; YM-393059 (Yamamoto, S. (550) 166)

Phosphodiesterase 7A

Phosphodiesterase 4; Interleukin-2; Tumor necrosis factor- α ; T-cell; YM-393059; YM976 (Yamamoto, S. (541) 106)

Phosphodiesterase 4; Th-cell; Neutrophil; Immunosuppressant; Cyclosporine; YM-393059 (Yamamoto, S. (550) 166)

Phosphodiesterase inhibitor

Phosphodiesterase; Asthma; Chronic obstructive pulmonary disease; Cilomilast; Roflumilast; Rolipram (Fan Chung, K. (533) 110)

Phosphoinositide 3-kinase

α_{1B} -Adrenoceptor; Protein kinase C; Receptor transactivation (Casas-González, P. (542) 31)

Phospholipase A₂

Inflammation; Acute; Chronic; Inhibitor (Malaviya, R. (539) 195)

2-Phosphonomethyl-pentanedioic acid

Glutamate carboxypeptidase II; Electroconvulsive threshold; Maximal electroshock; Antiepileptic drug; Valproate; Pharmacokinetic interaction (Luszczki, J.J. (531) 66)

Photodegradable nitric oxide store

Mouse stomach; Gastric relaxation; Localisation; Superoxide dismutase (Ögülcü, N. (548) 137)

Phyllanthus amarus

Niranthin; Lignan; Inflammation; Platelet activating factor receptor; (Rodent) (Kassuya, C.A.L. (546) 182)

Physostigmine

NMDA; DL-AP5; MK-801; Passive avoidance learning; Retention; Basolateral amygdala; (Rats) (Jafari-Sabet, M. (529) 122)

Phytoestrogen

Dihydrodaidzein; Atherosclerosis; Restenosis after angioplasty; Vascular smooth muscle cell proliferation (Shen, J. (548) 123)

PIFIR model

Potential; Analgesia; Ibuprofen; Caffeine (Medina López, J.R. (544) 31)

PI-3,4,5-P₃ (dipalmitoyl L- α -phosphatidyl-D-myo-inositol 3,4,5-triphosphate)

Genistein; Myoblast differentiation; FAK (focal adhesion kinase); PI3-kinase (phosphoinositide 3-kinase); Ca²⁺ influx (Woo, J.H. (529) 84)

PI3-kinase (phosphoinositide 3-kinase)

Genistein; PI-3,4,5-P₃ (dipalmitoyl L- α -phosphatidyl-D-myo-inositol 3,4,5-triphosphate); Myoblast differentiation; FAK (focal adhesion kinase); Ca²⁺ influx (Woo, J.H. (529) 84)

Piceatannol

Osteoblasts; Cell differentiation; Alkaline phosphatase; Osteocalcin; Bone morphogenetic protein-2 (Chang, J.-K. (551) 1)

Pig heart

All-*trans* retinal; Carbonyl reductase; Quinone; Flavonoid (Shimada, H. (540) 46)

Pilocarpine

Acetylcholine; Muscarinic receptor; Olfactory discrimination; Social recognition memory; Aging; (Rat) (Prediger, R.D.S. (531) 176)

Pimobendan

Guinea pig right atria; Langendorff hearts; Positive inotropic effect; Green tea catechin; NO release; Intracellular Ca²⁺ (Hotta, Y. (552) 123)

Pinacidil

Gabapentin; Neuropathic pain; Nitric oxide; Guanylyl cyclase; Protein kinase G; K⁺ channel opener; Diazoxide (Mixcoatl-Zecuatl, T. (531) 87)

Pinocembrin

Cerebral hypoperfusion; Cognitive; Mitochondria (Guang, H.-M. (542) 77)

Piperine

1-Methyl-4-phenylpyridinium; PC12 cells; Mitochondrial membrane permeability; Cell injury (Lee, C.S. (537) 37)

Pirfenidone

Chronic rejection; Transplantation (Dosanjh, A. (536) 219)

Pithed rat

α_1 -Adrenoceptors; Blood pressure; 5-HT receptor ligands; Phenylephrine (Centurión, D. (535) 234)

Pituitary cell

Indapamide; Voltage-dependent K⁺ current; Apoptosis (Dong, D.-L. (536) 78)

PKC

Bone marrow; Erythroblast; P2Y₁ receptor; Intracellular calcium; CaMKII (Paredes-Gamero, E.J. (534) 30)

α_7 ; Nicotinic receptor; Nicotine; [³H]Methyllycaconitine; cAMP; Upregulation (Nuutinen, S. (544) 21)

PKC (protein kinase C)

N-hexacosanol; Diabetes; Nephropathy; Malonaldehyde; TGF- β_1 (transforming growth factor beta-1) (Saito, M. (544) 132)

PKR (Double-strand RNA-activated protein kinase)

Leptin; 2-aminopurine; STAT3 (Signal transducer and activator of transcription 3); ERK (Extracellular signal-regulated kinase); Ob-Rb leptin receptor (Hosoi, T. (553) 61)

Place conditioning

Nicotine; Morphine; Reinstatement; Calcium channel antagonist; (Rat) (Biala, G. (537) 85)

Planaria

κ -opioid receptor; Schild (*pA₂*) analysis (Raffa, R.B. (540) 200)

Plaque

Atherosclerosis; Collagen; ACAT inhibitor (Kitayama, K. (539) 81)

Plasma

Cannabinoid; CB₁ receptor; Corticosterone; Rodent (Wade, M.R. (551) 162)

Plasma extravasation

Fentanyl; Histamine H₃ receptor agonist; Nociception; Synergy (Poveda, R. (541) 53)

Platelet

Alzheimer disease; Mild cognitive impairment; Biomarker; Cerebrospinal fluid; Amyloid precursor protein (Borroni, B. (545) 73)

Platelet activating factor receptor

Phyllanthus amarus; Niranthin; Lignan; Inflammation; (Rodent) (Kassuya, C.A.L. (546) 182)

Platelet activation

Protease-activated receptor; Thrombin (Wu, C.-C. (546) 142)

Platelet aggregation

PC-09; Cyclic AMP; Thromboxane B₂; Glycoprotein IIb/IIIa (Cherng, S.-C. (532) 32)

G $\alpha_{q/11}$ inhibitor; Peripheral arterial disease; Vasodilation; Local administration (Uemura, T. (536) 154)

Matrix metalloproteinase-9; Membrane fluidity; Na⁺/H⁺ exchanger; Hydroxyl radical (Lee, Y.-M. (537) 52)

Conjugated linoleic acid; Conjugated nonadecadienoic acid; Isomer; Cyclooxygenase (Li, G. (545) 93)

Platinum complex

Hepatoma; Bile acid; Cisplatin; Carboplatin; Mitoxantrone (Barbara, C. (549) 27)

Platycodin D

NF- κ B activation; HaCaT cells; Apoptosis; Caspase-3 and 8; Fas and Fas ligand (Ahn, K.S. (537) 1)

Cholesterol lowering; Anti-obesity; ACAT inhibition; Farnesoid X receptor (Zhao, H.L. (537) 166)

Pleura

Morphine; Ussing system; Transmesothelial resistance; (Sheep) (Vogiatzidis, K. (530) 276)

Pleural mesothelial cell

Store-mediated; Calcium channel; Mycalolide B; Actin cytoskeleton (Kuwahara, M. (542) 16)

Polaprezinc

Oral mucositis; Dexamethasone; Azulene; 5-fluorouracil (Mitsuhashi, H. (551) 152)

Poly (ADP-ribose) polymerase

Secretory phospholipase A₂; Apoptosis; Caspase; TNF- α ; Cytochrome c (Lee, C. (536) 47)

poly(ADP-ribose) polymerase

Apoptosis; Flavonoids; Cytotoxic activity; Caspases; DNA fragmentation (Rubio, S. (548) 9)

Polyamine metabolism

Iron chelation; Human hepatocyte; Cell proliferation (Chantrel-Groussard, K. (541) 129)

Polyamine-binding site

Ginseng; Ginsenoside Rh₂; (*R*)- or (*S*)-stereoisomer; NMDA; Patch-clamp (Lee, E. (536) 69)

Polycyclic aromatic hydrocarbons

Aryl-hydrocarbon receptor; 3-Methylcholanthrene; Dioxin; Angiogenesis (Juan, S.-H. (530) 1)

Polymorphism

Dopamine D4 receptor; Norepinephrine; Epinephrine; [³⁵S]GTP γ S; Sodium (Czermak, C. (531) 20)

Polymyxin B

Hypothermia; Metabolic rate; Heat-loss (Moriyama, N. (541) 38)

Polyphenol

Curcumin; Osteoblasts; p21; Proliferation; Mineralization (Notoya, M. (534) 55)

Polyphenols

Mangiferin; Iron; Superoxide scavenging; Cytoprotection (Pardo-Andreu, G.L. (547) 31)

American ginseng; Berry; Caffeic acid; Chlorogenic acid; Antioxidant; Fluorescence; Oxidant stress; Catalase (Mehendale, S.R. (553) 209)

Population spike

Oxygen/glucose deprivation; Neuroprotection; Phenytoin; Carbamazepine (Tanabe, M. (553) 104)

Porcine coronary arteries

Ca²⁺ channels; Endothelium; p38 MAPK (p38 mitogen-activated protein kinase); Raloxifene; Vasorelaxation (Moritz, A. (545) 153)

Porcine coronary artery

Salvianolic acid B; BK_{Ca} channels; (*Salvia miltiorrhiza* (Danshen)) (Lam, F.F.Y. (546) 28)

Homocysteine; BK_{Ca} channel; Nicotinamide adenine dinucleotide phosphate-oxidase; Superoxide anion (Au, A.L.S. (546) 109)

Portal vein

Histamine; Histamine H₄ receptor; Liver ischemia; (Rat) (Adachi, N. (544) 181)

Positive inotropic effect

Guinea pig right atria; Langendorff hearts; Green tea catechin; NO release; Intracellular Ca²⁺; Pimobendan (Hotta, Y. (552) 123)

Postconditioning

Acetylcholine; Adenosine; Ischemia; Myocyte (Lu, J. (549) 133)

Postherpetic neuralgia

Herpes zoster; Opioid receptor; Morphine; Nalfurafine; Analgesia (Takasaki, I. (550) 62)

Postprandial

HIV; Paraoxonase; Monocyte chemoattractant protein-1; Metformin; Rosiglitazone (Coll, B. (544) 104)

Postsynaptic density

NMDA receptor; Excitotoxicity (Gardoni, F. (545) 2)

Potassium

Dofetilide; Ischemia–reperfusion; Delayed outward rectifier; (Guinea-pig) (Ducroq, J. (532) 279)

Potassium channel opener

Detrusor smooth muscle; Smooth muscle relaxation; ATP-sensitive potassium channels; Sulfonyleurea receptor; Outlet obstruction; Overactive bladder (Milicic, I. (532) 107)

Potassium channels

Endothelial dysfunction; db/db mice; Small mesenteric artery; Endothelium-derived hyperpolarizing factor; Epoxyeicosotrienoic acid (Pannirselvam, M. (551) 98)

Potentiation

Analgesia; Antinociception; Ibuprofen; Caffeine; PIFIR model (Medina López, J.R. (544) 31)

Analgesia; Metamizol; Endogenous opioid; Non-steroidal anti-inflammatory drug (Hernández-Delgadillo, G.P. (546) 54)

PPAR

Methionine-choline-deficient diet; NASH; Bezafibrate; GW501516; (Mouse) (Nagasawa, T. (536) 182)

PPAR γ

Airway; Inflammation; Asthma (Belvisi, M.G. (533) 101)

Cardiac hypertrophy; Fatty acid metabolism (Edgley, A.J. (538) 195)

PPAR- γ agonist

PPAR- γ (peroxisome proliferator-activated receptor- γ); Hippocampus; Ischemia/reperfusion; Oxidative stress; Inflammation (Collino, M. (530) 70)

PPAR- γ (peroxisome proliferator-activated receptor- γ)

PPAR- γ agonist; Hippocampus; Ischemia/reperfusion; Oxidative stress; Inflammation (Collino, M. (530) 70)

Pralidoxime

Pyridinium oxime; Acetylcholinesterase; Antidote; Obidoxime; Trimedoxime; HI-6; HLö-7; Warfare nerve agent; Organophosphorus insecticide (Jokanović, M. (553) 10)

Pranlukast

Leukotriene receptor antagonist; Cold injury; Brain oedema; Blood–brain barrier; Neuroprotection (Qian, X.-D. (549) 35)

Preconditioning

Isoflurane; Oxygen-glucose deprivation; Extracellular signal-regulated kinase; Early growth response gene 1; Bcl-2 (Zuo, Z. (542) 84)

Depolarization; Cytoprotection; Veratridine; Chromaffin cell (Orozco, C. (553) 28)

Predictive validity

Marble burying; Anxiety; Anxiolytics; (Mice) (Nicolas, L.B. (547) 106)

Prefrontal cortex

Dopamine; Excitotoxic lesion; Neurotensin; Striatum (Radja, F. (539) 158)

Pregnane X receptor

Lipopolysaccharide (LPS); Retinoid X receptor; Cytochrome P450 3A (CYP3A); Erythromycin *N*-demethylase (ERND); Intestine (Xu, D.-X. (536) 162)

Prejunctional inhibition

5-hydroxytryptamine; Nitric oxide; Experimental diabetes; 5-HT_{1A} receptors (García, M. (537) 126)

Premicturition contraction

Tamsulosin; α_1 -Adrenoceptor; Intraurethral pressure; Bladder outlet obstruction (Ohtake, A. (545) 185)

Prenatal treatment

Prepulse inhibition; WIN 55,212-2 (Bortolato, M. (531) 166)

Prepulse inhibition

WIN 55,212-2; Prenatal treatment (Bortolato, M. (531) 166)

mGlu2/3 receptor; Locomotion; *c-fos* expression; Schizophrenia (Imre, G. (544) 77)

Mood stabilizers; Valproate; Carbamazepine; Lithium; Apomorphine; Dizocilpine (Umeda, K. (553) 157)

Pressor response

Ranbezolid; Tyramine; Oxazolidinone; Cold remedies (Naruganahalli, K.S. (545) 167)

Pressurized arteriography

ATP-sensitive K⁺ channels (K_{ATP} channels); Basilar artery; Middle cerebral artery; Quantitative real-time PCR; Western blotting (Ploug, K.B. (553) 254)

Presynaptic

Calcium channel; Analgesia; Anticonvulsant; Anxiolytic; Transmitter release (Joshi, I. (553) 82)

Presynaptic boutons

Alzheimer's disease; Amyloid beta protein; Dystrophic neurites; Glutamate; GABA; Acetylcholine (Bell, K.F.S. (545) 11)

Preterm labor

Formoterol; BRL 37344; cAMP; cGMP; (Rat) (Yurtcu, N. (530) 263)

Primary cortical neurons

Colorimetric assay; Baclofen; Neuronal survival; Spasticity (Dario, A. (550) 33)

Primary cultured cerebral cortical neurons

Donepezil; Acetylcholinesterase inhibitor; Glutamate excitotoxicity; LDH release; Intracellular calcium concentration (Akasofu, S. (530) 215)

Primate

Erectile dysfunction; Hydrogen sulphide; Intracavernous pressure; Corpus cavernosum; (Rat) (Srilatha, B. (535) 280)

Priming

6-OHDA-lesioned rat; Histamine H₃ receptor; Dopamine D₁ receptor; Vacuous chewing movement; Catalepsy; Striatum; Microdialysis (Nowak, P. (552) 46)

Proarrhythmia

Ventricular stretch; α_1 -Adrenergic receptor; Repolarization prolongation; Torsade de pointes; QT interval (Farkas, A.S. (537) 118)

Probenecid

Organic anion transporter; TR– rat; Adefovir clearance (Servais, A. (540) 168)

Probiotics

Allergy; Asthma; Bacterial extract; CpG motif; Hygiene hypothesis; Lipopolysaccharide; Mycobacteria; T helper cell; Toll-like receptors; T regulatory cells (Feleszko, W. (533) 308)

Prochlorperazine

Antiemetic drug; HERG channel; *I_{Kr}*; Long QT syndrome; Arrhythmias (Kim, M.-D. (544) 82)

Proconvulsant

Etomidate; Ketamine; Thiopental; Glutamate; Excitatory amino acid transporter type 3; Voltage clamp; *Xenopus* oocyte (Yun, J.-Y. (531) 133)

GABA_A receptor; $\alpha 5$ subunit; Benzodiazepine; RY-080; In vivo binding (Atack, J.R. (548) 77)

Progesterone receptor

Neuropathic pain; Estrogen receptor; Allodynia; Hyperalgesia; Nociception (Kondo, D. (541) 44)

Prolactin

Dopamine D2 receptor; Partial agonist; Antipsychotics; Sf9 cell; (Rat) (Cosi, C. (535) 135)

Proliferation

Glioma; COX; NSAID; Indomethacin (Bernardi, A. (532) 214)

Curcumin; Polyphenol; Osteoblasts; p21; Mineralization (Notoya, M. (534) 55)

Angiotensin II; Smooth muscle cell; Extracellular signal-regulated kinases 1/2; Mitogen-activated protein kinases; Crocetin (Zhou, C.-H. (535) 61)

Glutamate receptor antagonist; Antirheumatic drug; Synoviocyte; In vitro (Parada-Turska, J. (535) 95)

Thromboxane A₂ receptor; G₁₂ family G protein; Rho; ERK (Honma, S. (545) 100)

Peripheral-type benzodiazepine receptor; Cancer; Ehrlich tumor; Diazepam; Ro5-4864 (Sakai, M. (550) 8)

Pro-opiomelanocortin

Opioid; Nicotine; β -endorphin; Dipeptide; Conditioned place preference (Göktalay, G. (530) 95)

Pro-opiomelanocortin antisense

Hypothalamus–pituitary–adrenal axis; Corticotropin-releasing hormone; Adrenocorticotropin; Corticosteroid; Neonatal programming (Galletta, G. (550) 180)

Prooxidant

Antioxidant; Daidzein; Equol; Glutathion (Jeong Choi, E. (542) 162)

Propofol

Anesthetics; Oxidative stress; Lymphocyte; Neuron (Chikutei, K.-i. (540) 18)

Locus coeruleus; pH change (Chen, C.-L. (545) 115)

Soman; Seizure; Rocyclidine; Muscimol; Ethanol; Aphagia/adipsia; Resistance; Electrode placement (Myhrer, T. (548) 83)

GABA_A receptors; IPSC; Substantia gelatinosa; Midazolam; Patch clamp; (Mouse) (Takahashi, A. (553) 120)

Prostacyclin

Insulin; Corpus cavernosum; Relaxation; Ca²⁺ channel (Myung, S.C. (536) 142)

Prostacyclin (PGI₂)

Adriamycin; Renal tubular cell; Apoptosis; Cyclooxygenase-1 (COX-1); Prostacyclin synthase (PGIS) (Chen, C.-H. (529) 8)

Prostacyclin receptor

Cyclic AMP; Dorsal root ganglion cell; Prostanoid EP receptor; Prostaglandin E₂; Rho-kinase (Wise, H. (535) 69)

Prostacyclin synthase (PGIS)

Prostacyclin (PGI₂); Adriamycin; Renal tubular cell; Apoptosis; Cyclooxygenase-1 (COX-1) (Chen, C.-H. (529) 8)

Prostaglandin

Cerebral circulation; Signal transduction; Opioid; Brain injury (Armstead, W.M. (529) 129)

Formalin; Glutamate; GABA; Mouse (Oliva, P. (530) 40)

Lipopolysaccharide; Cyclooxygenase; Nitric oxide synthase; Uterus (Cella, M. (534) 218)

Mesenteric traction; Cyclooxygenase-inhibitor; Hemodynamics; Oxygenation (Bucher, M. (536) 296)

Paracetamol; Diclofenac; Aminopyrine; Cyclooxygenase-3; Writhing; (Cyclooxygenase knockout mice) (Ayoub, S.S. (538) 57)

Prostaglandin E₂

Cell proliferation; Cell cycle; Cyclin; cAMP (Sanchez, T. (529) 16)

Protease-activated receptor; Prostanoid receptor; Respiratory tract (Henry, P.J. (533) 156)

Cyclic AMP; Dorsal root ganglion cell; Prostanoid EP receptor; Prostacyclin receptor; Rho-kinase (Wise, H. (535) 69)

Cinnamaldehyde; Rat cerebral microvascular endothelial cell; Interleukin-1 β ; Cyclooxygenase; Real-time RT-PCR (Guo, J.-Y. (537) 174)

Endothelial cell; L-*cis*-diltiazem; Thapsigargin; Dibutyl cAMP; 8-bromo-cGMP; Cyclic nucleotide gated channel (Shalom, R. (543) 8)

Bradykinin; Lipopolysaccharide; Glial cell (Levant, A. (546) 197)

Cryptotanshinone; Cyclooxygenase-2; Reactive oxygen species (Jin, D.-Z. (549) 166)

Prostaglandins

Acetaminophen; Cyclooxygenase (Censarek, P. (551) 50)

Prostanoid

Asthma; Chronic obstructive pulmonary disease; Isoprostanes (Rolin, S. (533) 89)

Fas clustering; Mcl-1 cleavage; Prostate cancer (Chiang, P.-C. (542) 22)

Emesis; Defecation; Ferret; NK₁; 5-HT₃ (Kan, K.K.W. (544) 153)

Prostanoid EP receptor

Cyclic AMP; Dorsal root ganglion cell; Prostacyclin receptor; Prostaglandin E₂; Rho-kinase (Wise, H. (535) 69)

Prostanoid receptor

Protease-activated receptor; Prostaglandin E₂; Respiratory tract (Henry, P.J. (533) 156)

Prostate

α_{1L} -Adrenoceptor; RS-17053; WB 41011; Tamsulosin; Stroma (Gray, K.T. (540) 155)

Prostate cancer

Fas clustering; Mcl-1 cleavage; Prostanoid (Chiang, P.-C. (542) 22)

Protease-activated receptor

Prostaglandin E₂; Prostanoid receptor; Respiratory tract (Henry, P.J. (533) 156)

Thrombin; Platelet activation (Wu, C.-C. (546) 142)

Protease-activated receptor2 (PAR2)

Lung epithelial cell; Neutrophil adhesion; Rho; Cytoskeleton (Yagi, Y. (536) 19)

Protective effect

Acute phase protein; Liver injury; Interleukin-6; ME3738 (Kuzuhara, H. (541) 205)

Protective index

ACEA (Arachidonyl-2-chloroethylamide); Cannabinoid CB₁ receptor; Chimney test; Interaction index; Isobolographic transformation; Maximal electroshock; Neuromuscular grip strength; Pharmacokinetic interaction; Valproic acid (Luszczki, J.J. (547) 65)

Protein induction

CYP2E1; Phenobarbital; Chlorzoxazone; Brain; (Monkey) (Lee, A.M. (552) 151)

Protein kinase

Eosinophil; Cyclic adenosine monophosphate; Signal transduction; Reactive oxygen species; Human; Phorbol myristate acetate (Ezeamuzie, C.I. (543) 174)

Atherosclerosis; Calcium channel blocker; Cell adhesion molecule; Monocyte; Signal transduction (Takahashi, K. (552) 162)

Protein kinase A

Artery; β -NAD; Adenylyl cyclase; Neurotransmitter release (Bobalova, J. (536) 128)

Protein kinase B

Human gingival fibroblast; Mitogen-activated protein; Lipopolysaccharide; Luteolin; Nitric oxide; Nitric oxide synthase (Gutiérrez-Venegas, G. (541) 95)

Protein kinase C

β_2 -adrenoceptor desensitization; Airway smooth muscle; Fenoterol; Phorbol 12-myristate 13-acetate; GF 109203X (Boterman, M. (529) 151)

Human neutrophil; Formylpeptide; Chemotaxis; Superoxide anion release; MAP kinase (Selvatici, R. (534) 1)

Atrial myocyte; Na⁺ current (I_{Na}); Staurosporine (Ko, J.H. (534) 48)

Cerebral artery; Mechanical stretch; Myosin phosphorylation; Rho-kinase; Shortening velocity (Obara, K. (534) 141)

σ receptor; Cocaine; Dopamine release; Dopamine transporter (Nuwayhid, S.J. (535) 98)

Anaesthetic preconditioning; Xenon; Cardiac preconditioning; Mitochondrial adenosine triphosphate dependent potassium channel; 3Phosphatidylinositol-dependent kinase-1 (Weber, N.C. (539) 1)

α_{1B} -Adrenoceptor; Phosphoinositide 3-kinase; Receptor transactivation (Casas-González, P. (542) 31)

cPLA₂ α ; Hydrogen peroxide; Src; Murine L929 cells (Taniguchi, T. (546) 1)

Protein kinase C- β II

High glucose; Hypertension; Nitric oxide; Vascular smooth muscle cell (Pacheco, M.E. (538) 115)

Protein kinase G

Gabapentin; Neuropathic pain; Nitric oxide; Guanylyl cyclase; K⁺ channel opener; Diazoxide; Pinacidil (Mixcoatl-Zecuatl, T. (531) 87)

Sildenafil; K⁺ channel; Relaxation; Nitric oxide; Penile resistance artery (Prieto, D. (531) 232)

Protein oxidation

Redox proteomics; Alzheimer's disease; Oxidative stress; Hippocampus; Inferior parietal lobule (Butterfield, D.A. (545) 39)

Protein synthesis

Drug dependence; Model (Raffa, R.B. (551) 54)

Protein tyrosine phosphorylation

GEA3162; Neutrophil; Thiol oxidation; Store-operated Ca²⁺ entry; Actin reorganization (Hsu, M.-F. (535) 43)

Proteomics

Malignant glioma treatment; Temozolomide; Irradiation; Tissue remodelling; Metalloproteinases; Tumour invasiveness (Trog, D. (542) 8)

Ethanol; DIGE; (Zebrafish) (Damodaran, S. (547) 75)

Ibogaine; Addiction; Energy metabolism; Glycolysis; Tricarboxylic acid cycle; Rat brain (Paškulin, R. (552) 11)

Protocatechuic acid

Hydrogen peroxide; Oxidative stress; Apoptosis; PC12 cells (Guan, S. (538) 73)

Protons

Capsaicin; Anandamide; TRPV1 (transient receptor potential vanilloid 1); Ligand-gated ion channel; Pain (Bianchi, B.R. (537) 20)

Pseudoirreversible binding

Analgesia; Buprenorphine; Opioid receptor binding (Englberger, W. (534) 95)

Psychostimulant

Hypocretin; Immunohistochemistry; Fos; Nicotinic receptor; Rat (Pasumarthi, R.K. (535) 172)

Puerarin

Oxidative stress; Pancreatic islet; Insulin; Apoptosis (Fu-Liang, X. (529) 1)

3',5'-cyclic adenosine monophosphate (cyclic AMP); Radix puerariae; Vascular relaxation (Yeung, D.K.Y. (552) 105)

Pulmonary artery

Superoxide; NADPH oxidase [nicotinamide adenine dinucleotide phosphate oxidase]; Endothelial cell (Muzaffar, S. (538) 108)

Pulmonary circulation

Blood pressure; Urotensin-II; Hypoxia; Heart failure; Pulmonary hypertension (Deuchar, G.A. (537) 135)

Heart failure; Histopathology; Cyclo-oxygenase; Angiogenesis (van Albada, M.E. (549) 107)

Pulmonary fibrosis

Leomycin; Dexamethasone; Inflammation (Chen, F. (536) 287)

Pulmonary hypertension

Nicotine; Smoking cessation (Paganelli, M.O. (530) 124)

Receptor; Vasodepressor; Sufentanil (Kaye, A.D. (534) 159)

Pulmonary circulation; Blood pressure; Urotensin-II; Hypoxia; Heart failure (Deuchar, G.A. (537) 135)

Dexfenfluramine; Chronic hypoxia; Valvulopathy; Imaging; (Rat) (Rocheffort, G.Y. (550) 149)

Pulmonary mechanics

Experimental asthma; Histamine; Resistance; Compliance; Hyperreactivity; L-NAME (Friberg, S.G. (547) 143)

Pulmonary neutrophilia

Azithromycin; Lipopolysaccharide; Septic shock; TNF- α (Ivetić Tkálčević, V. (539) 131)

Pupil diameter

Intraocular pressure; Opioid receptors; Morphine; Nitric oxide (Bonfiglio, V. (534) 227)

Purinergic

Development; Cholinergic; Rho-kinase; cGMP (Ekman, M. (532) 99)

Purinergic receptor

ATP; Intestine; Enteric nervous system; Secretion (Fang, X. (536) 113)

Pyridinium oxime

Acetylcholinesterase; Antidote; Pralidoxime; Obidoxime; Trimedoxime; HI-6; HL6-7; Warfare nerve agent; Organophosphorus insecticide (Jokanović, M. (553) 10)

Pyrilamine

Itch; Histamine; PAR2 (proteinase-activated receptor-2) (Shimada, S.G. (530) 281)

Pyrrolidine dithiocarbamate

Nuclear factor- κ B; Alveolar bone loss; Reactive oxygen specie; Periodontal disease (Muià, C. (539) 205)

Pyruvate kinase

Suramin; Hyperglycaemia; Glucose formation; Renal tubules; (Rabbit) (Jagielski, A.K. (537) 205)

QT interval

Maprotiline; Acquired long QT syndrome; Arrhythmia; *HERG* potassium channel; Torsade de pointes; I_{Kr} ; Rapid delayed rectifier (Ferrer-Villada, T. (531) 1)

Ventricular stretch; α_1 -Adrenergic receptor; Repolarization prolongation; Torsade de pointes; Proarrhythmia (Farkas, A.S. (537) 118)

QT prolongation

HERG; KCNQ1; Patch-clamp; Estradiol (Möller, C. (532) 44)

Antipsychotic; Cyamemazine; *h*ERG; Phenothiazine; Arrhythmia; Guinea pig (Crumb, W. (532) 270)

Quantitative microdialysis

Ontogeny; Adolescent rat; Nucleus accumbens; Addiction; Mesolimbic system (Badanich, K.A. (550) 95)

Quantitative model

Haloperidol; Transient outward current; Sigma receptors; Rat ventricular myocytes; Whole-cell patch clamp (Bébarová, M. (550) 15)

Quantitative real-time PCR

ATP-sensitive K⁺ channels (K_{ATP} channels); Basilar artery; Middle cerebral artery; Pressurized arteriography; Western blotting (Ploug, K.B. (553) 254)

Quantum dot

Nanotechnology; Nanomaterial; Nanoparticle; Nanocarrier; Respiratory medicine (Pison, U. (533) 341)

Quercetin

TNF- α ; MC3T3-E1 osteoblastic cell; Growth inhibition; Apoptosis induction (Son, Y.-O. (529) 24)

Iron overload; Liver; Flavonoids; Baicalin; Oxidation (Zhang, Y. (535) 263)

Quinone

All-*trans* retinal; Carbonyl reductase; Flavonoid; Pig heart (Shimada, H. (540) 46)

Quinpirole

Antidepressant; Dopamine; Imipramine; Mania; Motor activity; Valproate (D'Aquila, P.S. (535) 208)

(R)- or (S)-stereoisomer

Ginseng; Ginsenoside Rh₂; NMDA; Polyamine-binding site; Patch-clamp (Lee, E. (536) 69)

(Rabbit)

Suramin; Hyperglycaemia; Glucose formation; Renal tubules; Pyruvate kinase (Jagielski, A.K. (537) 205)

Rabbit aorta

Icatibant; LF 16-0687; Aminopeptidase N; Bradykinin; Angiotensin (Bawolak, M.-T. (551) 108)

Raclopride

Dopamine D₂-receptor occupancy; In vivo; Dosage; Olanzapine; Risperidone (Naiker, D.V. (540) 87)

Radial arm maze

GABA_B receptor; CGP35348; Atypical absence seizure; Cognitive deficit (Chan, K.F.Y. (541) 64)

Radial artery

Omeprazole; Lansoprazole; Internal mammary artery; Vascular smooth muscle tone; Relaxation (Naseri, E. (531) 226)

Radial maze

Scopolamine; Hippocampus; Theta power; Peak frequency (Masuoka, T. (539) 76)

Radix puerariae

3',5'-cyclic adenosine monophosphate (cyclic AMP); Puerarin; Vascular relaxation (Yeung, D.K.Y. (552) 105)

Raf-1

Adenylyl cyclase superactivation; Human μ -opioid receptor (Yue, X. (540) 57)

Raloxifene

3T3-L1 adipocyte; Adiponectin; Lipoprotein lipase (Murase, Y. (538) 1)

Ca²⁺ channels; Endothelium; p38 MAPK (p38 mitogen-activated protein kinase); Porcine coronary arteries; Vasorelaxation (Moritz, A. (545) 153)

(R)- α -methylhistamine

Histamine H₃ receptor; Gastrointestinal mucosa; Epithelial thickness and cell proliferation; (Rat) (Grandi, D. (538) 141)

Rana pipiens

Remifentanyl; Analgesia; Opioid; *Mu* opioid receptor (Mohan, S. (534) 89)

Ranbezolid

Pressor response; Tyramine; Oxazolidinone; Cold remedies (Naruganahalli, K.S. (545) 167)

Ranolazine

Long-acting nitrate; Sildenafil; Blood pressure; Heart rate; Conscious dog (Zhao, G. (541) 171)

Rapid delayed rectifier

Maprotiline; Acquired long QT syndrome; Arrhythmia; *HERG* potassium channel; Torsade de pointes; *I_{Kr}*; QT interval (Ferrer-Villada, T. (531) 1)

Rapidly adapting receptor

Cough reflex; Histamine; Histamine H₁ receptor; ATP; Ionotropic purinergic receptor (Kamei, J. (547) 160)

(Rat)

Cannabinoid; Feeding behaviour; Motor activity; Drinking behaviour; Body weight (Gardner, A. (530) 103)

Formoterol; BRL 37344; Preterm labor; cAMP; cGMP (Yurtcu, N. (530) 263)

Kindling; AMPA receptor antagonists; YM872; Epileptogenesis (Hara, H. (531) 59)

Behavior; Forced swim test; RB101; Brain-derived neurotrophic factor (Jutkiewicz, E.M. (531) 151)

Pilocarpine; Acetylcholine; Muscarinic receptor; Olfactory discrimination; Social recognition memory; Aging (Prediger, R.D.S. (531) 176)

Dopamine D₂ receptor; Partial agonist; Antipsychotics; Sf9 cell; Prolactin (Cosi, C. (535) 135)

α_1 -adrenoceptor; 5-HT₂ receptor; Nitroblue tetrazolium; Hemodynamics (Owen, J.R. (535) 248)

Erectile dysfunction; Hydrogen sulphide; Intracavernous pressure; Corpus cavernosum; Primate (Srilatha, B. (535) 280)

Animal model; Anxiety; Anticonvulsant drug; Panic (Dombrowski, P.A. (537) 72)

Nicotine; Morphine; Reinstatement; Calcium channel antagonist; Place conditioning (Biala, G. (537) 85)

Nicotine; Ethanol; Conditioned taste aversion; Blood ethanol levels (Korkosz, A. (537) 99)

Dopamine D₁-like receptor; Cyclase-coupled; Dopamine D₁-like receptor; Non-cyclase-coupled; Dopamine D₁-like:D₂-like receptor interaction; Jaw movement; Orofacial movement; SK&F 83822; SK&F 83959 (Fujita, S. (538) 94)

Calcium-activated K⁺ channel; cAMP; Endothelium-derived hyperpolarizing factor; Mesenteric artery; Type 2 diabetes (Matsumoto, T. (538) 132)

(R)- α -methylhistamine; Histamine H_3 receptor; Gastrointestinal mucosa; Epithelial thickness and cell proliferation (Grandi, D. (538) 141)

MCH-1 receptor antagonists; Depression; Anxiety; (Mouse) (Basso, A.M. (540) 115)

Diabetes; Cyclooxygenase; L-NAME; Kidney (Chen, Y.-J. (541) 80)

Cocaine; GABA neurotransmission; Locomotor activation; Behavioral sensitization (Filip, M. (541) 163)

Cognition; Antipsychotic; Exposure; Serum level (Didriksen, M. (542) 108)

Adrenergic hyporesponsiveness; Bile duct ligation; Cholestasis; Clonidine; Endogenous opioids; Nitric oxide (Tavakoli, S. (542) 148)

Hypertriglyceridemia; Hypercholesterolemia; Crocin; Pancreatic lipase (Sheng, L. (543) 116)

Cannabinoid; Anandamide; NANC (nonadrenergic noncholinergic) relaxation; NO (nitric oxide); Corpus cavernosum (Ghasemi, M. (544) 138)

Genistein; CFTR (cystic fibrosis transmembrane conductance regulator); NKCC1; Smooth muscle (Valero, M.S. (544) 128)

Ghrelin; Cholinergic; Tachykininergic; Nitrgenic; Stomach (Bassil, A.K. (544) 146)

Histamine; Histamine H_4 receptor; Liver ischemia; Portal vein (Adachi, N. (544) 181)

Olfactory bulb; Regional cerebral blood flow; Nicotine; Nicotinic receptor (Shiba, K. (546) 148)

Gene expression; Isoflurane; Nitrous Oxide; Anesthesia; Hippocampus (Culley, D.J. (549) 71)

Furindipine; Ischemia and re-perfusion; Arrhythmias; Cardio-protection (Krzemiński, T.F. (549) 91)

Dexfenfluramine; Chronic hypoxia; Pulmonary hypertension; Valvulopathy; Imaging (Rochefort, G.Y. (550) 149)

Levofloxacin; Hyperglycemia; Hypoglycemia; Epinephrine; Histamine (Ishiwata, Y. (551) 168)

DOI; EMD 281014; 5-HT_{2A} receptor; 5-HT_{2C} receptor; GABA; LDT/PPT nuclei; REM sleep; SB-243213; Serotonin; Slow wave sleep; Waking (Monti, J.M. (553) 163)

5-HT₇ receptor antagonist; Drinking conflict test; Forced swimming test; Intrahippocampal injection (Wesołowska, A. (553) 185)

Rat

Resveratrol; Pancreatitis; Inflammation; Scavenger (Szabolcs, A. (532) 187)

Psychostimulant; Hypocretin; Immunohistochemistry; Fos; Nicotinic receptor (Pasumarthi, R.K. (535) 172)

Fear learning; Memory; Associative learning; Endocannabinoid (Arenos, J.D. (539) 177)

Cannabinoid system; Drug discrimination; Nicotine; Nicotinic acetylcholine receptor (Zaniewska, M. (540) 96)

mGlu5 receptor; 'in situ' hybridisation; mRNA; [³H]MPEP ligand binding; Reserpine; Parkinson's disease (Ismayilova, N. (545) 134)

(Rat)

Gene expression; Isoflurane; Nitrous oxide; Anesthesia; Hippocampus (Culley, D.J. (549) 71)

Rat brain

Acute tolerance; Neurosteroid; In situ hybridization; EEG threshold (Birzniece, V. (535) 125)

MEK1/2 activity; Sufentanil; SNC-80; U50488H; Morphine addiction (Asensio, V.J. (539) 49)

Ibogaine; Addiction; Energy metabolism; Glycolysis; Tricarboxylic acid cycle; Proteomics (Paškulin, R. (552) 11)

Rat brain synaptosome

(-)-*Trans*- ϵ -viniferin; Noradrenaline and 5-hydroxytryptamine uptake; Human recombinant MAO isoform; Human platelet (Yáñez, M. (542) 54)

Rat cerebral artery

Histamine; Myogenic tone; Endothelium; K_V potassium channels (Jarajapu, Y.P.R. (547) 116)

Rat cerebral microvascular endothelial cell

Cinnamaldehyde; Interleukin-1 β ; Cyclooxygenase; Prostaglandin E₂; Real-time RT-PCR (Guo, J.-Y. (537) 174)

Rat colon

Cl⁻ channel; Histamine; K⁺ channel (Schultheiss, G. (546) 161)

Rat mast cell protease

Compound 48/80; Mucosal mast cell; Connective tissue mast cell; Airway (Liu, S. (530) 128)

Rat mesenteric bed

Diabetes; Endothelium; Streptozotocin; Lovastatin; Chelerythrine (Fatehi-Hassanabad, Z. (535) 228)

Rat mesenteric resistance artery

Histamine; Vasodilation; Vasoconstriction; Perivascular nerve (Jin, H. (529) 136)

Rat ventricular myocytes

Haloperidol; Transient outward current; Sigma receptors; Whole-cell patch clamp; Quantitative model (Bébarová, M. (550) 15)

(Rat)

Deltamethrin; Gestation; Cytochrome P450; Expression; Behavioral activity (Johri, A. (544) 58)

(Rats)

NMDA; DL-AP5; MK-801; Physostigmine; Passive avoidance learning; Retention; Basolateral amygdala (Jafari-Sabet, M. (529) 122)

Norfloracin; Biphenylacetic acid; Convulsion; Interleukin-1 β (Zhang, L.-r. (543) 21)

RAW 264.7

Cardamonin; *Alpinia rafflesiana*; Whole blood; Inflammatory mediator (Ahmad, S. (538) 188)

RAW 264.7 macrophage

Lipopolysaccharide; Nitric oxide; Mitogen-activated kinase phosphatase-1; Cyclooxygenase-2; Signal transduction; Anti-inflammatory effect (Chen, T.-H. (541) 138)

RAW 264.7 macrophages

Ferulic acid; NCX 2057(3-(4-hydroxy-3-methoxyphenyl)-2-propenoic acid 4-(nitrooxy)butyl ester); Nitric oxide; NF- κ B (nuclear factor kappa-B); Inflammation (Ronchetti, D. (532) 162)

RB101

Behavior; Forced swim test; Brain-derived neurotrophic factor; (Rat) (Jutkiewicz, E.M. (531) 151)

RBA-2 astrocytes

P2X₇ receptor; Oxidized ATP; Astrocytes; β -actin (Chen, H.B. (550) 1)

RC3

Neurogranin; Opioid (Tang, L. (542) 106)

Reactive metabolite

Bioactivation; Hepatotoxicity (Park, K.B. (549) 1)

Reactive oxygen specie

Pyrrolidine dithiocarbamate; Nuclear factor- κ B; Alveolar bone loss; Periodontal disease (Muià, C. (539) 205)

Reactive oxygen species

Carboxymethyl-chitosan; Chondrocyte; Apoptosis; Mitochondrion; Nitric oxide (Chen, Q. (541) 1)

Calceolarioside; Adriamycin; Apoptosis (Kim, D.-S. (541) 24)

Eosinophil; Cyclic adenosine monophosphate; Signal transduction; Protein kinase; Human; Phorbol myristate acetate (Ezeamuzie, C.I. (543) 174)

Adhesion molecule; Calcium channel blocker; 7-Ketocholesterol; Endothelial cell (Naito, Y. (546) 11)

Cryptotanshinone; Cyclooxygenase-2; Prostaglandin E₂ (Jin, D.-Z. (549) 166)

Reactive oxygen species production

Allopurinol; Xanthine oxidase; Ischemia-reperfusion; Ca²⁺ overload (Kang, S.-M. (535) 212)

Real-time RT-PCR

Cinnamaldehyde; Rat cerebral microvascular endothelial cell; Interleukin-1 β ; Cyclooxygenase; Prostaglandin E₂ (Guo, J.-Y. (537) 174)

B₂ receptor

Bradykinin; Peristalsis; Ileum; FR173657; Icatibant (Hoe 140) (Chan, S.K. (539) 108)

Receptor

Vasodepressor; Sufentanil; Pulmonary hypertension (Kaye, A.D. (534) 159)

Endothelin; ET_B (endothelin type B); ERK1/2 (extracellular regulation kinase 1 and 2); Calcium; Contraction (Luo, G. (538) 124)

Receptor antagonist

Delayed hypersensitivity; T-lymphocyte; Lymphocyte function-associated antigen-1; Cell adhesion molecule (Panzenbeck, M.J. (534) 233)

Melanin-concentrating hormone; Obesity; Indirect calorimetry (Kowalski, T.J. (535) 182)

Receptor transactivation

α_{1B} -Adrenoceptor; Phosphoinositide 3-kinase; Protein kinase C (Casas-González, P. (542) 31)

Receptor-activity-modifying protein

Intermedin; Isoproterenol; Calcitonin receptor-like receptor; cAMP (Jia, Y.-X. (549) 117)

Receptor-operated

Ginsenoside-Rd; Store-operated; Ca²⁺ channel; Ca²⁺ entry (Guan, Y.-Y. (548) 129)

Recombinant yeast screen assay

3-methyl-4-nitrophenol; Anti-androgenic activity; Diesel exhaust particle; Hersherberger assay (Li, C. (543) 194)

Redox proteomics

Alzheimer's disease; Oxidative stress; Protein oxidation; Hippocampus; Inferior parietal lobule (Butterfield, D.A. (545) 39)

Reduced Folate Transporter

Caco-2 cells; Folate absorption; High glucose (Martel, F. (551) 19)

Regional cerebral blood flow

Olfactory bulb; Nicotine; Nicotinic receptor; (Rat) (Shiba, K. (546) 148)

Reinstatement

Nicotine; Morphine; Calcium channel antagonist; Place conditioning; (Rat) (Biala, G. (537) 85)

Relapse-like drinking

Baclofen; GABA_B (γ -aminobutyric acid_B) receptor; Alcohol deprivation effect; sP (Sardinian alcohol-preferring) rats (Colombo, G. (550) 123)

Relaxation

Omeprazole; Lansoprazole; Internal mammary artery; Radial artery; Vascular smooth muscle tone (Naseri, E. (531) 226)

Sildenafil; K⁺ channel; Nitric oxide; Protein kinase G; Penile resistance artery (Prieto, D. (531) 232)

Insulin; Corpus cavernosum; Prostacyclin; Ca²⁺ channel (Myung, S.C. (536) 142)

Hyperhomocysteinemia; Carotid artery; α_{1D} -adrenoceptor; Modulation; Phenylephrine; Nitric oxide; Oxidative stress (de Andrade, C.R. (543) 83)

Chlorzoxazone; Ca²⁺-activated K⁺ channel; Thoracic artery (Dong, D.-L. (545) 161)

Formoterol; BRL 37344; Iris sphincter; Ciliary muscle; cAMP; cGMP (Topalkara, A. (548) 144)

Release

DOPA; Dopamine; Cocaine; Methamphetamine; Nicotine; Behavior; Nucleus accumbens; Microdialysis (Izawa, J.-i. (549) 84)

REM sleep

DOI; EMD 281014; 5-HT_{2A} receptor; 5-HT_{2C} receptor; GABA; LDT/PPT nuclei; SB-243213; Serotonin; Slow wave sleep; Waking; (Rat) (Monti, J.M. (553) 163)

Remifentanil

Analgesia; Opioid; *Mu* opioid receptor; *Rana pipiens* (Mohan, S. (534) 89)

Remodeling

Hemodynamics; Ischemia; Transgenic animal models (Koch, M. (550) 143)

Renal artery

Diabetes; Arachidonic acid derivatives; Cyclooxygenase; Endothelin-1; Endothelin ET_A and ET_B receptors; Endothelium; NO (nitric oxide) (Marrachelli, V.G. (534) 178)

Renal dysfunction

Diabetic nephropathy; Emodin; p38 mitogen-activated protein kinase (Wang, J. (553) 297)

Renal failure

Angiotensin II; Type-2 diabetes; Metabolic syndrome; Longevity (Janiak, P. (534) 271)

Renal injury

Diabetes; Hyperglycemia; Hyperlipidemia; Lipid peroxide (Yoshida, M. (548) 174)

Renal tubular cell

Prostacyclin (PGI₂); Adriamycin; Apoptosis; Cyclooxygenase-1 (COX-1); Prostacyclin synthase (PGIS) (Chen, C.-H. (529) 8)

Renal tubules

Suramin; Hyperglycaemia; Glucose formation; Pyruvate kinase; (Rabbit) (Jagielski, A.K. (537) 205)

Renin–angiotensin system

Candesartan cilexetil; Adipokines; Adipocytes (Zorad, S. (552) 112)

Reoxygenation

Aging; Hypoxia; Cariporide; Endothelium; Vasorelaxation (Besse, S. (531) 187)

Reperfusion

Angiotensin II type I receptor antagonist; Angiotensin II; Intestinal injury; Ischemia (Takagi, T. (535) 283)

Reperfusion injury

Cardiomyocyte; Microtubule; Tubulin ligand; Superoxide; NADPH oxidase (Devillard, L. (548) 64)

Repolarization prolongation

Ventricular stretch; α_1 -Adrenergic receptor; Torsade de pointes; Proarrhythmia; QT interval (Farkas, A.S. (537) 118)

Reporter gene assay

I-CLiP (intramembrane cleaving protease); γ -Secretase inhibitor; SPP (single peptide peptidase) splice variant; S2P (Site-2 protease) cleavage (Dev, K.K. (540) 10)

Resensitization

Adenylyl cyclase; Inverse agonist; Constitutive activity; Splice variant (Krobert, K.A. (532) 1)

Reserpine

Nitric oxide synthase; C57BL/6; Swiss; 7-Nitroindazole; (Mice) (Tadaiesky, M.T. (535) 199)

mGlu5 receptor; ‘*in situ*’ hybridisation; mRNA; [³H]MPEP ligand binding; Rat; Parkinson’s disease (Ismayilova, N. (545) 134)

Resistance

Experimental asthma; Pulmonary mechanics; Histamine; Compliance; Hyper-reactivity; L-NAME (Friberg, S.G. (547) 143)

Soman; Seizure; Rocyclidine; Muscimol; Ethanol; Propofol; Aphagia/adipsia; Electrode placement (Myhrer, T. (548) 83)

Resistance exercise

Human growth hormone; Lipid metabolism; (Aged female rat) (Yang, J.-Y. (539) 99)

Respiration

Cyclic phosphatidic acid; Vagus; Carotid sinus nerve; Intravenous administration (Hotta, H. (543) 27)

Respiratory disease

Phosphodiesterase; Ibudilast; Neurological disease (Gibson, L.C.D. (538) 39)

Respiratory medicine

Nanotechnology; Nanomaterial; Nanoparticle; Nanocarrier; Quantum dot (Pison, U. (533) 341)

Respiratory tract

Protease-activated receptor; Prostaglandin E₂; Prostanoid receptor (Henry, P.J. (533) 156)

Restenosis

Cytokine; Coronary disease; Infarction; Stem cell (Li, Y. (549) 98)

Restenosis after angioplasty

Phytoestrogen; Dihydrodaidzein; Atherosclerosis; Vascular smooth muscle cell proliferation (Shen, J. (548) 123)

Resveratrol

Pancreatitis; Inflammation; Scavenger; Rat (Szabolcs, A. (532) 187)

Amyloid synthesis; Green tea; Curcumin; Blueberries; Ginkgo biloba extract EGb 761 (Ramassamy, C. (545) 51)

Insulin secretion; Pancreatic islet (Szkudelski, T. (552) 176)

Retention

NMDA; DL-AP5; MK-801; Physostigmine; Passive avoidance learning; Basolateral amygdala; (Rats) (Jafari-Sabet, M. (529) 122)

Retina

σ_1 receptors; Neuroprotection; Ischemia; Adamantane derivative (Bucolo, C. (536) 200)

Retinoid X receptor

Lipopolysaccharide (LPS); Pregnane X receptor; Cytochrome P450 3A (CYP3A); Erythromycin *N*-demethylase (ERND); Intestine (Xu, D.-X. (536) 162)

Retrosplenial cortex

BDNF (brain-derived neurotrophic factor); MK801; Valproate (Jeon, G.S. (545) 142)

Reverse cholesterol transport

Liver X receptor agonist; ATP-binding cassette transporter A1; Cellular cholesterol efflux (Johnston, T.P. (536) 232)

Reverse transcriptase-polymerase chain reaction

T24 cell line; Adenosine A_{2B} receptor; cAMP; 5'-Ethylcarboxamidoadenosine; Fluorometric imaging plate reader (Phelps, P.T. (536) 28)

Reward

Antipsychotic; In vivo; Intracranial self-stimulation; Specific receptor antagonists (Flagstad, P. (544) 69)

Rh₂

20(*S*)protopanaxadiol; 20(*S*)protopanaxatriol; [³H]Batrachotoxinin; Brain; Synaptoneurosome (Duan, Y. (530) 9)

(Rhesus monkey)

Delta opioid receptor agonist; SNC80; Cocaine self-administration (Do Carmo, G.P. (547) 92)

Rheumatoid arthritis

Asthma; Immunoglobulin free light chain; Hypersensitivity; Mast cell; Multiple sclerosis (van der Heijden, M. (533) 319)

Rho

Protease-activated receptor2 (PAR2); Lung epithelial cell; Neutrophil adhesion; Cytoskeleton (Yagi, Y. (536) 19)

Thromboxane A₂ receptor; G₁₂ family G protein; Proliferation; ERK (Honma, S. (545) 100)

RhoA

Norepinephrine; Endothelial nitric oxide synthase; Vascular endothelial growth factor; Extracellular signal-related kinase; Mitogenic effect; Human umbilical vein endothelial cells (Seya, Y. (553) 54)

Rho-kinase

Airway hyperresponsiveness; Airway smooth muscle; Allergy; Asthma; Contraction; Ovalbumin; Passive sensitization; Y-27632; (Guinea pig) (Schaafsma, D. (531) 145)

Development; Cholinergic; Purinergic; cGMP (Ekman, M. (532) 99)

Cerebral artery; Mechanical stretch; Myosin phosphorylation; Protein kinase C; Shortening velocity (Obara, K. (534) 141)

Gallbladder; Ca^{2+} sensitisation; Y-27632 (Quinn, T. (534) 210)

Cyclic AMP; Dorsal root ganglion cell; Prostanoid EP receptor; Prostacyclin receptor; Prostaglandin E_2 (Wise, H. (535) 69)

Carbachol; Cholecystokinin; Human gallbladder; Y-27632 (Büyükaşar, K. (540) 162)

Analgesia; Hot-plate; Inflammation; Nociception; Writhing; Y-27632 (Büyükaşar, K. (541) 49)

Trachea; Smooth muscle contraction; Cholinergic nerve; Acetylcholine release (Fernandes, L. (550) 155)

Riboflavin

Inflammation; Pain; Nociception; Edema; Fever; Fibrovascular tissue (Bertollo, C.M. (547) 184)

Risperidone

Dopamine D_2 -receptor occupancy; In vivo; Raclopride; Dosage; Olanzapine (Naiker, D.V. (540) 87)

RNA (esiRNA)

Multidrug resistance; *MDR1*; Endonuclease-prepared small interference; Low concentration of esiRNA (Li, L. (536) 93)

Ro5-4864

Peripheral-type benzodiazepine receptor; Cancer; Ehrlich tumor; Diazepam; Proliferation (Sakai, M. (550) 8)

Rocyclidine

Soman; Seizure; Muscimol; Ethanol; Propofol; Aphagia/adipsia; Resistance; Electrode placement (Myhrer, T. (548) 83)

(Rodent)

Phyllanthus amarus; Niranthin; Lignan; Inflammation; Platelet activating factor receptor (Kassuya, C.A.L. (546) 182)

Rodent

Cannabinoid; CB_1 receptor; Corticosterone; Plasma (Wade, M.R. (551) 162)

Rofecoxib

Cyclooxygenase; Naproxen; Oxidative stress; Immobilization stress (Dhir, A. (535) 192)

CIAA; Celecoxib; COX-2; Peripheral (Okumura, T. (539) 125)

Anandamide; Endocannabinoids; Fatty-acid ethanolamides; Oleoylethanolamide; Palmitoylethanolamide; Cannabinoid receptors; Ibuprofen; Fatty-acid amide hydrolase; Nonsteroidal anti-inflammatory drugs; Capsazepine; Formalin test; Inflammatory pain (Guindon, J. (550) 68)

Roflumilast

Phosphodiesterase; Phosphodiesterase inhibitor; Asthma; Chronic obstructive pulmonary disease; Cilomilast; Rolipram (Fan Chung, K. (533) 110)

Rolipram

2,4,6-trinitro-1-chlorobenzene; Phosphodiesterase 4; Dermatitis (Harada, D. (532) 128)

Phosphodiesterase; Phosphodiesterase inhibitor; Asthma; Chronic obstructive pulmonary disease; Cilomilast; Roflumilast (Fan Chung, K. (533) 110)

Rosiglitazone

HIV; Paraoxonase; Monocyte chemoattractant protein-1; Postprandial; Metformin (Coll, B. (544) 104)

Rotigotine

Dopamine agonist; Animal models depression; Parkinson's disease (Bertaina-Anglade, V. (548) 106)

Rotorod

γ -hydroxybutyrate (GHB); Flunitrazepam; Baclofen; Cross-tolerance; Motor performance (Smith, M.A. (552) 83)

RP 67580

Tachykinin NK_1 receptor; Colitis; Substance P; (Mice) (Rijnierse, A. (548) 150)

RS-17053

$\alpha_{1\text{L}}$ -Adrenoceptor; WB 41011; Tamsulosin; Prostate; Stroma (Gray, K.T. (540) 155)

RT-PCR

GLP-2 receptor; $\text{G}\alpha$ protein signalling; Intestinal growth; Western blot; cAMP (Sams, A. (532) 18)

RT-PCR (Reverse Transcriptase-Polymerase Chain Reaction)

Dopamine receptor; Nucleus accumbens; Striatum; Amitriptyline; Mirtazapine; Sertraline (Huzarska, M. (532) 208)

RU 24969

5-HT $_{1\text{B}}$ receptor; CP 94253; *p*-Chlorophenylalanine; Maximal electroshock; Pentylentetrazol-induced seizure; (Mice) (Wesołowska, A. (541) 57)

Running

Morphine; Learning and memory (Alaei, H. (536) 138)

RY-080

GABA $_A$ receptor; $\alpha 5$ subunit; Benzodiazepine; Proconvulsant; In vivo binding (Atack, J.R. (548) 77)

Ryanodine receptor

Thyrotoxicosis; Cardiac myocyte shortening; Ca^{2+} transients; Cyclic GMP (Zhang, Q. (537) 45)

 σ receptor

Cocaine; Dopamine release; Dopamine transporter; Protein kinase C (Nuwayhid, S.J. (535) 98)

Cocaine; Convulsion; Locomotor activity (Daniels, A. (542) 61)

 σ Receptor

MDMA; BD1063; Locomotor (Brammer, M.K. (553) 141)

 σ_1 receptors

Retina; Neuroprotection; Ischemia; Adamantane derivative (Bucolo, C. (536) 200)

S2P (Site-2 protease) cleavage

I-CLIP (intramembrane cleaving protease); γ -Secretase inhibitor; SPP (single peptide peptidase) splice variant; Reporter gene assay (Dev, K.K. (540) 10)

Salicylate

Gaultherin; NSAIDs (non-steroidal anti-inflammatory drugs); Aspirin; Gastric ulcer (Zhang, B. (530) 166)

Salivation

Bladder; Submaxillary gland; Oral administration; Tolterodine; Oxybutynin; Muscarinic receptor binding (Oki, T. (529) 157)

Salusin

mas-like G protein-couple receptor; Pain (Wang, Z. (539) 145)

Salvia miltiorrhiza

Salvianolic acid B; Danshen; Calcium channel; Coronary artery (Lam, F.F.Y. (553) 240)

(Salvia miltiorrhiza (Danshen))

Salvianolic acid B; BK_{Ca} channels; Porcine coronary artery (Lam, F.F.Y. (546) 28)

Salvianolic acid B

BK_{Ca} channels; Porcine coronary artery; (*Salvia miltiorrhiza* (Danshen)) (Lam, F.F.Y. (546) 28)

Danshen; *Salvia miltiorrhiza*; Calcium channel; Coronary artery (Lam, F.F.Y. (553) 240)

Salvinorin A

Kappa opioid receptor; Antinociception (John, T.F. (545) 129)

Sarafotoxin 6c

Actinomycin D; Cycloheximide; Vasoconstriction (Eskesen, K. (539) 192)

Sarcoplasmic reticulum

L-type calcium current; Na–Ca exchange; Arrhythmogenesis; Cardiac electrophysiology (Hove-Madsen, L. (553) 215)

(S)-armepavine

Systemic lupus erythematosus; Splenocyte proliferation; IL-2; Immune complex deposition; Anti-dsDNA autoantibody (Liu, C.-P. (531) 270)

SB-243213

DOI; EMD 281014; 5-HT_{2A} receptor; 5-HT_{2C} receptor; GABA; LDT/PPT nuclei; REM sleep; Serotonin; Slow wave sleep; Waking; (Rat) (Monti, J.M. (553) 163)

SB269970

Lipid raft; G protein coupled receptor; Serotonin; 5-HT₇ receptor; Cholesterol (Sjögren, B. (552) 1)

SB-277011-A

Dopamine; Nucleus accumbens shell and core (Roberts, C. (534) 108)

Scavenger

Resveratrol; Pancreatitis; Inflammation; Rat (Szabolcs, A. (532) 187)

SCF (stem cell factor)

Kit; Inflammation; Inflammation; Mast cell; Eosinophil; Asthma (Reber, L. (533) 327)

Schild (*pA*₂) analysis

κ-opioid receptor; *Planaria* (Raffa, R.B. (540) 200)

Schisandrin B

Fenofibrate; Triglyceride; Total cholesterol; Hypertriglyceridemia (Pan, S.-Y. (537) 200)

Schizophrenia

Antipsychotic; 5-HT_{1A}; D_{2S}; Extracellular signal-regulated kinase (Bruins Slot, L.A. (534) 63)

Glutamate; Antipsychotic; Confocal microscopy (Jordan, S. (540) 53)

D-Amino acid oxidase; Anesthetics; Ketamine; NMDA receptor; Serine racemase (Takeyama, K. (540) 82)

mGlu2/3 receptor; Prepulse inhibition; Locomotion; *c-fos* expression (Imre, G. (544) 77)

Cognition; α7 Nicotinic receptor; 5-HT₃ receptor; NMDA receptor; Tropisetron (Hashimoto, K. (553) 191)

Sciatic nerve

Anaesthesia; Dextromethorphan; Dextrorphan; Local anaesthetic; 3-methoxymorphinan (Hou, C.-H. (544) 10)

Sciatic nerve ligation

Fluvoxamine; 5-HT; Chronic pain; μ-Opioid receptor; δ-Opioid receptor (Nozaki, C. (552) 99)

Scopolamine

β-Casomorphin-5; μ-Opioid receptor; Spontaneous alternation; Passive avoidance (Sakaguchi, M. (530) 81)

Radial maze; Hippocampus; Theta power; Peak frequency (Masuoka, T. (539) 76)

Scorpion BmK venom

Paw inflammation; Spontaneous pain; Thermal hypersensitivity; Mechanical hypersensitivity (Bai, Z.-T. (552) 67)

Scratching

Nafamostat mesilate; Trypsin; PAR-2 receptor; Itch; (Mouse) (Ui, H. (530) 172)

Scratching behavior

Allergic dermatitis; Hapten; Mouse; Immunoglobulin E; Interferon-γ; Interleukin-4; Interleukin-5; Tacrolimus; Dexamethasone (Inagaki, N. (546) 189)

SEA0400

Heart; Ischemia-reperfusion; Sodium–calcium exchanger; Mitochondria (Namekata, I. (543) 108)

β-Secretase

Amyloid precursor protein; γ-Secretase; Amyloidogenic processing (Pastorino, L. (545) 29)

γ-Secretase

Amyloid precursor protein; β-Secretase; Amyloidogenic processing (Pastorino, L. (545) 29)

γ-Secretase inhibitor

I-CLiP (intramembrane cleaving protease); SPP (single peptide peptidase) splice variant; S2P (Site-2 protease) cleavage; Reporter gene assay (Dev, K.K. (540) 10)

Secretion

Purinergic receptor; ATP; Intestine; Enteric nervous system (Fang, X. (536) 113)

Secretory phospholipase A₂

Apoptosis; Caspase; Poly (ADP-ribose) polymerase; TNF-α; Cytochrome c (Lee, C. (536) 47)

Sedation

Flavonoid glycosides; Hesperidin; GABA_A; Sleep-enhancing action (Fernández, S.P. (539) 168)

Seizure

Soman; Rocyclidine; Muscimol; Ethanol; Propofol; Aphagia/adipsia; Resistance; Electrode placement (Myhrer, T. (548) 83)

Selective ET_A receptor antagonist

Endothelin; Bone formation (Someya, A. (543) 14)

Selective noradrenaline reuptake inhibitor

Conditioned fear; Selective serotonin reuptake inhibitor; Noradrenaline; Serotonin; Anxiety disorder (Inoue, T. (540) 91)

Selective serotonin reuptake inhibitor

Conditioned fear; Selective noradrenaline reuptake inhibitor; Noradrenaline; Serotonin; Anxiety disorder (Inoue, T. (540) 91)

Selective serotonin reuptake inhibitor (SSRI)

Conditioned fear stress (CFS); Citalopram; Serotonin; Anxiolytic; c-Fos (Izumi, T. (534) 129)

Selectively bred rat line

Clozapine; Olanzapine; Limited access alcohol drinking; Dopamine; Atypical antipsychotic drug (Ingman, K. (534) 133)

Self-administration

Alcohol; Drug discrimination; Discriminative stimulus; Ethanol intake; Metabotropic glutamate receptors (Besheer, J. (551) 71)

3-Phenyltropane; Locomotor activity; Drug discrimination; Dopamine transporter (Carroll, F.I. (553) 149)

Self-injurious behavior

Methamphetamine; Opioid receptor agonists (Mori, T. (532) 81)

Semicarbazide-sensitive benzylamine oxidase activity

Diabetes; Methylamine; Alpha-aminoguanidine; Hyperphagia; K_v1.6 potassium channel (Cioni, L. (529) 179)

Sensitivity

Cocaine; Tachykinin NK₃ receptor; SR 142801; Marmoset; Behavior (De Souza Silva, M.A. (536) 269)

Sensitization

Cocaine; Microdialysis; Motor activity; Glutamate; GABA (Jayaram, P. (531) 74)

Tachykinin NK₁ receptor antagonist; L-732,138; Substance P; Antigen; EEG (Electroencephalogram) spike; Olfactory bulb; Cyproheptadine; Olopatadine; Epinastine (Rahman, M.A. (532) 155)

Sensory neuropathy

Cisplatin; Insulin resistance (Szilvássy, J. (531) 217)

Septic shock

Azithromycin; Lipopolysaccharide; Pulmonary neutrophilia; TNF- α (Ivetić Tkalcević, V. (539) 131)

D-serine

In situ hybridization; Neurons; Serine racemase (Yoshikawa, M. (548) 74)

Serine racemase

D-Amino acid oxidase; Anesthetics; Ketamine; NMDA receptor; Schizophrenia (Takeyama, K. (540) 82)

In situ hybridization; Neurons; D-serine (Yoshikawa, M. (548) 74)

Serofendic acid

Neuroprotection; Glutamate; Mitochondria; Caspase (Kume, T. (542) 69)

Serotonin

In vivo microdialysis; Conditioned fear stress; Li₂CO₃; Noradrenaline; Clorgyline (Kitaichi, Y. (532) 236)

Conditioned fear stress (CFS); Citalopram; Anxiolytic; Selective serotonin reuptake inhibitor (SSRI); c-Fos (Izumi, T. (534) 129)

Conditioned fear; Selective serotonin reuptake inhibitor; Selective noradrenaline reuptake inhibitor; Noradrenaline; Anxiety disorder (Inoue, T. (540) 91)

Contextual fear conditioning; Fluoxetine; Desipramine; Panic (Santos, J.M. (542) 121)

3,4-Methylenedioxymethamphetamine; Minocycline; Dopamine; Neurotoxicity; Microglia (Zhang, L. (544) 1)

Bepotastine besilate; Itch-associated response; Substance P; Leukotriene B₄; Histamine; Zileuton (Andoh, T. (547) 59)

Lipid raft; G protein coupled receptor; SB269970; 5-HT₇ receptor; Cholesterol (Sjögren, B. (552) 1)

DOI; EMD 281014; 5-HT_{2A} receptor; 5-HT_{2C} receptor; GABA; LDT/PPT nuclei; REM sleep; SB-243213; Slow wave sleep; Waking; (Rat) (Monti, J.M. (553) 163)

Serotonin 5-HT_{1A} receptor

Serotonin 5-HT_{2C} receptor; Benzodiazepine; Anxiety (Harada, K. (553) 171)

Serotonin 5-HT_{2C} receptor

Serotonin 5-HT_{1A} receptor; Benzodiazepine; Anxiety (Harada, K. (553) 171)

Serotonin release

GEA3162; Guanylin; Human colon; L-N^G-nitroarginine methyl ester; Nicardipine (Kojima, S.-i. (550) 162)

Serotonin transporter

Para-methoxyamphetamine; 3,4-methylenedioxymethamphetamine; Neurodegeneration; 5-HT (Callaghan, P.D. (546) 74)

Sertraline

Dopamine receptor; Nucleus accumbens; Striatum; Amitriptyline; Mirtazapine; RT-PCR (Reverse Transcriptase-Polymerase Chain Reaction) (Huzarska, M. (532) 208)

Serum

Cyclophosphamide; Hyperlipidemia; Heart; Lipoic acid (Mythili, Y. (543) 92)

Serum level

Cognition; Antipsychotic; Exposure; (Rat) (Didriksen, M. (542) 108)

Sesquiterpene

Dendritic cell; Th1 response; Cholera toxin; Th2 response (Takei, M. (537) 190)

Seven-transmembrane-domain

3,3-difluorobenzaldazine; Allosteric enhancer; mGlu5 (Mühlemann, A. (529) 95)

Sexual behavior

Neonatal treatment; Citalopram; Imipramine; Locomotor activity (Maciag, D. (532) 265)

Sf9 cell

Dopamine D2 receptor; Partial agonist; Antipsychotics; Prolactin; (Rat) (Cosi, C. (535) 135)

Shear stress

Vitamin C; Oxidative stress; Oxidant; ATP; Dehydroascorbic acid; Anion channels (Davis, K.A. (548) 36)

(Sheep)

Pleura; Morphine; Ussing system; Transmesothelial resistance (Vogiatzidis, K. (530) 276)

Shiga toxin

p38 MAPK; Tyrosine kinase; Tyrosine kinase inhibitor; Tyrphostin 47 (Ikeda, M. (546) 36)

Shogaol

Gingerol; 5-HT₃ receptor (Abdel-Aziz, H. (530) 136)

Shortening velocity

Cerebral artery; Mechanical stretch; Myosin phosphorylation; Protein kinase C; Rho-kinase (Obara, K. (534) 141)

SHR (spontaneously hypertensive rat)

p47^{phox}; Spontaneous tone; Superoxide (Lodi, F. (544) 97)

Sialyl-Lewis x

Carbocisteine; Glycosyltransferase mRNA; Phosphatidyl inositol-specific phospholipase C; NCI-H292; TNF- α (Ishibashi, Y. (530) 223)

Side effects

Lornoxicam; Nitroglycerin; Oxidative stress; Antioxidative effects (Sen, S. (541) 191)

Sigma receptors

Haloperidol; Transient outward current; Rat ventricular myocytes; Whole-cell patch clamp; Quantitative model (Bébarová, M. (550) 15)

Signal transduction

Cerebral circulation; Opioid; Prostaglandin; Brain injury (Armstead, W.M. (529) 129)

Lipopolysaccharide; Nitric oxide; Mitogen-activated kinase phosphatase-1; Cyclooxygenase-2; RAW 264.7 macrophage; Anti-inflammatory effect (Chen, T.-H. (541) 138)

2-APB; Cell signaling; Calcium channel blocker; Fura-2; Myosin light chain phosphorylation; Contraction (Ratz, P.H. (541) 177)

Sildenafil; Tadalafil; Vardenafil; Corpus cavernosum (Lau, L.-C. (541) 184)

Eosinophil; Cyclic adenosine monophosphate; Protein kinase; Reactive oxygen species; Human; Phorbol myristate acetate (Ezeamuzie, C.I. (543) 174)

Atherosclerosis; Calcium channel blocker; Cell adhesion molecule; Monocyte; Protein kinase (Takahashi, K. (552) 162)

Signaling

Adenylate cyclase; Cyclic AMP; G protein-coupled receptor; Kinase (Beazely, M.A. (535) 1)

Sildenafil

Human pulmonary artery; Cyclic GMP; Nitric oxide (Mauricio, M.D. (530) 259)

K⁺ channel; Relaxation; Nitric oxide; Protein kinase G; Penile resistance artery (Prieto, D. (531) 232)

Ranolazine; Long-acting nitrate; Blood pressure; Heart rate; Conscious dog (Zhao, G. (541) 171)

Tadalafil; Vardenafil; Corpus cavernosum; Signal transduction (Lau, L.-C. (541) 184)

Simvastatin

Sister chromatid exchange; Genomic damage; Atherosclerosis; Dialysis (Pernice, F. (532) 223)

Single motor unit

Pain; Hyperalgesia; Carrageenan; Behavioral (Molina, C. (532) 50)

Single-unit extracellular recordings

Noradrenergic neurons; WIN 55212-2; CP 55940; Cannabinoid CB₁ receptors; Slice; In vivo (Mendiguren, A. (534) 83)

Sirolimus

Vascular smooth muscle; Drug combination; Isobolographic analysis (Parry, T.J. (532) 38)

Sister chromatid exchange

Simvastatin; Genomic damage; Atherosclerosis; Dialysis (Pernice, F. (532) 223)

Site-directed mutagenesis

Mouse 5-HT₆ receptor (Zhang, J. (534) 77)

SK&F 83822

Dopamine D₁-like receptor; Cyclase-coupled; Dopamine D₁-like receptor; Non-cyclase-coupled; Dopamine D₁-like:D₂-like receptor interaction; Jaw movement; Orofacial movement; SK&F 83959; (Rat) (Fujita, S. (538) 94)

SK&F 83959

Dopamine D₁-like receptor; Cyclase-coupled; Dopamine D₁-like receptor; Non-cyclase-coupled; Dopamine D₁-like:D₂-like receptor interaction; Jaw movement; Orofacial movement; SK&F 83822; (Rat) (Fujita, S. (538) 94)

SKF 96365

Ca²⁺ influx; Cellular alkalization; NH₄Cl; Non-selective Ca²⁺ channels (Restini, C.A. (553) 288)

SKF97541

Gamma-hydroxybutyrate; GHB; Baclofen; GABA; Xyrem; Sodium oxybate; Drug discrimination (Carter, L.P. (538) 85)

Skin barrier dysfunction

Itch; Atopic dermatitis; Hairless mice (Fujii, M. (530) 152)

Skin incision

Spinal Fos-like immunoreactivity; Nociception; Thermal stimulation (Zhu, C.Z. (531) 108)

Sleep-enhancing action

Flavonoid glycosides; Hesperidin; GABA_A; Sedation (Fernández, S.P. (539) 168)

Slice

Noradrenergic neurons; WIN 55212-2; CP 55940; Cannabinoid CB₁ receptors; Single-unit extracellular recordings; In vivo (Mendiguren, A. (534) 83)

Slow sodium currents

Lidocaine; Tramadol; Nerve injury; Delayed depolarization; Hyperpolarizing afterpotential (Mert, T. (543) 54)

Slow wave sleep

DOI; EMD 281014; 5-HT_{2A} receptor; 5-HT_{2C} receptor; GABA; LDT/PPT nuclei; REM sleep; SB-243213; Serotonin; Waking; (Rat) (Monti, J.M. (553) 163)

Smad proteins

Chemotaxis; 17- β -estradiol; Estrogen receptor; Transforming growth factor- β ; Breast cancer cell (Malek, D. (534) 39)

Small intestine

Nonsteroidal anti-inflammatory drugs; Indomethacin; Cyclooxygenase-1; Cyclooxygenase-2 (Menozi, A. (552) 143)

Small mesenteric artery

Endothelial dysfunction; db/db mice; Endothelium-derived hyperpolarizing factor; Potassium channels; Epoxyeicosotrienoic acid (Pannirselvam, M. (551) 98)

Small-conductance Ca^{2+} -activated K^{+} channel (SK channel)

1-ethyl-2-benzimidazolinone (1-EBIO); Anticonvulsant; Mouse (Anderson, N.J. (546) 48)

Smoking cessation

Nicotine; Pulmonary hypertension (Paganelli, M.O. (530) 124)

Smooth muscle

Calpain; Corpus cavernosum; Diabetes; Endothelium; Erectile dysfunction; Neuropathy; Nitric oxide (Nangle, M.R. (538) 148)

Testicular capsule; Adrenoceptor; Neurotransmission; Contraction; PCR (polymerase chain reaction) (Jurkiewicz, N.H. (543) 141)

Genistein; CFTR (cystic fibrosis transmembrane conductance regulator); NKCC1; (Rat) (Valero, M.S. (544) 128)

Nitroprusside; Nitrate; Chloride; NKCC1; Bumetanide (Valero, M. (553) 205)

Airway; Azithromycin; Contraction; Macrolide; Trachea (Daenas, C. (553) 280)

Smooth muscle cell

Angiotensin II; Proliferation; Extracellular signal-regulated kinases 1/2; Mitogen-activated protein kinases; Crocetin (Zhou, C.-H. (535) 61)

Smooth muscle contraction

Rho-kinase; Trachea; Cholinergic nerve; Acetylcholine release (Fernandes, L. (550) 155)

Smooth muscle relaxation

Potassium channel opener; Detrusor smooth muscle; ATP-sensitive potassium channels; Sulfonylurea receptor; Outlet obstruction; Overactive bladder (Milicic, I. (532) 107)

Butylidenephthalide; *Ligusticum chuanxiong*; Calcium; Endothelium (Chan, S.S.-K. (537) 111)

SNC 80

Wet-dog shakes; Icilin; Morphine; Buprenorphine; ICI 204,448; Nalfurafine; U50,488H (Werkheiser, J.L. (547) 101)

SNC-80

Nitric oxide; Delta opioid; Hypothermia; L-NAME (Rawls, S.M. (536) 109)

MEK1/2 activity; Sufentanil; U50488H; Morphine addiction; Rat brain (Asensio, V.J. (539) 49)

SNC80

Delta opioid receptor agonist; Cocaine self-administration; (Rhesus monkey) (Do Carmo, G.P. (547) 92)

Social interaction

Agmatine; Anxiolytic; Light–dark transition test; Vogel's drinking conflict test; Animal models (Gong, Z.-H. (550) 112)

Social recognition memory

Pilocarpine; Acetylcholine; Muscarinic receptor; Olfactory discrimination; Aging; (Rat) (Prediger, R.D.S. (531) 176)

SOD mimetic

Paw edema; Carrageenan; Superoxide anion; Peroxynitrite; Hyperalgesia; TEMPOL (Khattab, M.M. (548) 167)

Sodium

Dopamine D4 receptor; Polymorphism; Norepinephrine; Epinephrine; GTP γ S (Czermak, C. (531) 20)

Sodium channel

Myotonia; Flecainide; Anti-arrhythmia agent; Patch-clamp technique (Aoike, F. (532) 24)

Neuropathic pain; Dorsal root ganglion; Substance P; Nerve injury (Akada, Y. (536) 248)

Sodium current

Paeonol; Action potential; Ventricular myocyte; Whole-cell patch-clamp (Ma, Y.-l. (545) 87)

Sodium nitroprusside

Mineralization; Calcification; Inorganic phosphate; Iron ion (Huitema, L.F.A. (542) 48)

Sodium oxybate

Gamma-hydroxybutyrate; GHB; Baclofen; SKF97541; GABA; Xyrem; Drug discrimination (Carter, L.P. (538) 85)

Sodium–calcium exchanger

Heart; Ischemia-reperfusion; Mitochondria; SEA0400 (Namekata, I. (543) 108)

Soluble guanylyl cyclase

Anococcygeus muscle; BAY 41-2272; Tadalafil; Nitric oxide; Nitregic nerve (Teixeira, C.E. (530) 157)

Soman

Seizure; Rocyclidine; Muscimol; Ethanol; Propofol; Aphagia/adipsia; Resistance; Electrode placement (Myhrer, T. (548) 83)

Somatostatin

Anti-nociceptive effect; Formalin test; Adjuvant-induced inflammation; Traumatic mononeuropathy (Sándor, K. (539) 71)

sP (Sardinian alcohol-preferring) rats

Baclofen; GABA_B (γ -aminobutyric acid_B) receptor; Alcohol deprivation effect; Relapse-like drinking (Colombo, G. (550) 123)

Spasticity

Colorimetric assay; Primary cortical neurons; Baclofen; Neuronal survival (Dario, A. (550) 33)

Specific receptor antagonists

Antipsychotic; In vivo; Intracranial self-stimulation; Reward (Flagstad, P. (544) 69)

Spectroscopy

Langendorff heart; Mitochondrial K_{ATP} channel; 5-HT_{1A} receptor antagonist; MPTP (mitochondrial permeability transition pore); Apoptosis (Huang, L. (534) 165)

Spinal

Morphine; GABA; Glutamate; Withdrawal (Dunbar, S.A. (535) 152)

Spinal cord

Antianalgesia; Analgesia; Opioid; Knockout mice (Wu, H.-e. (531) 103)

Anandamide; Calcitonin gene-related peptide; γ -aminobutyric acid; Nitric oxide; Blood pressure (del Carmen García, M. (532) 88)

Ketamine; Acetylcholine; Nicotinic receptor; Microdialysis (Abelson, K.S.P. (534) 122)

Tyr-D-Arg-Phe-sarcosine; Dermorphin; Antinociception; μ -Opioid receptor; (Mouse) (Mizoguchi, H. (540) 67)

TRPV1; Inflammation; Glutamate; Synaptic transmission; Substantia gelatinosa (Lappin, S.C. (540) 73)

Mitogen-activated protein kinase; Antianalgesia; Analgesia; Opioid (Wu, H.-e. (550) 91)

Spinal cord injury pain

Allodynia; Analgesia; Hyperalgesia; Infraorbital nerve; Trigeminal neuralgia; Lacosamide (Hao, J.-X. (553) 135)

Spinal Fos-like immunoreactivity

Skin incision; Nociception; Thermal stimulation (Zhu, C.Z. (531) 108)

Splenocyte proliferation

Systemic lupus erythematosus; (S)-armepavine; IL-2; Immune complex deposition; Anti-dsDNA autoantibody (Liu, C.-P. (531) 270)

Splice variant

Adenylyl cyclase; Inverse agonist; Constitutive activity; Resensitization (Krobert, K.A. (532) 1)

Spontaneous alternation

β -Casomorphin-5; μ -Opioid receptor; Passive avoidance; Scopolamine (Sakaguchi, M. (530) 81)

Spontaneous pain

Scorpion BmK venom; Paw inflammation; Thermal hypersensitivity; Mechanical hypersensitivity (Bai, Z.-T. (552) 67)

Spontaneous tone

p47^{phox}; SHR (spontaneously hypertensive rat); Superoxide (Lodi, F. (544) 97)

SPP (single peptide peptidase) splice variant

I-CLiP (intramembrane cleaving protease); γ -Secretase inhibitor; S2P (Site-2 protease) cleavage; Reporter gene assay (Dev, K.K. (540) 10)

20(S)protopanaxadiol

20(S)protopanaxatriol; Rh₂; [³H]Batrachotoxinin; Brain; Synaptoneurosome (Duan, Y. (530) 9)

Squalene synthase inhibitor

2-Biphenylmorpholine compounds; Cholesterol; Triglyceride; Low-density lipoprotein receptor; Apolipoprotein B (Tavridou, A. (535) 34)

SR 142801

Cocaine; Tachykinin NK₃ receptor; Marmoset; Behavior; Sensitivity (De Souza Silva, M.A. (536) 269)

SR141716

Hexarelin; Food intake; Tolerance; Body weight (Rigamonti, A.E. (542) 116)

SR58611A

Beta-3 adrenoceptor; Diabetes; Wound healing; (Mice) (Schaeffer, P. (529) 172)

Src

cPLA₂ α ; Hydrogen peroxide; Protein kinase C; Murine L929 cells (Taniguchi, T. (546) 1)

SSAO (Semicarbazide-sensitive amine oxidase)

Imidazoline site ligand; Insulin; MAO (Monoamine oxidase); Adipose tissue (Bour, S. (552) 20)

SSRI (Selective Serotonin Reuptake Inhibitor)

Depression; Adrenergic receptor; Microdialysis (Beyer, C.E. (539) 164)

SSRI (Serotonin reuptake inhibitor)

5-HT (5-hydroxytyptamine); 5-HT syndrome; MAO (Monoamine oxidase) inhibitor (Izumi, T. (532) 258)

(S)-(–)-sulpiride

Pain; Dopamine; Apomorphine; Domperidone; Tail-flick; Paw pressure; Formalin (Pelissier, T. (546) 40)

ST1535

Adenosine A_{2a} receptor antagonist; MPTP treated primate; Parkinson's disease (Rose, S. (546) 82)

STAT3 (Signal transducer and activator of transcription 3)

Leptin; 2-aminopurine; ERK (Extracellular signal-regulated kinase); PKR (Double-strand RNA-activated protein kinase); Ob-Rb leptin receptor (Hosoi, T. (553) 61)

State-dependent learning

Lithium; ATP-sensitive potassium channels; Memory; Mouse (Zarrindast, M.-R. (550) 107)

Statin

Chemotaxis; Adhesion molecule; Cytoskeleton; Endothelial cell; Monocyte (Pozo, M. (548) 53)

Gender difference; NADPH-dependent superoxide production; Vasoprotection (Kurumazuka, D. (553) 263)

Staurosporine

Atrial myocyte; Na⁺ current (*I*_{Na}); Protein kinase C (Ko, J.H. (534) 48)

Stem cell

Cytokine; Coronary disease; Infarction; Restenosis (Li, Y. (549) 98)

Stereoisomerism

β -adrenoceptor; Airway; Bronchodilatation; Mucociliary clearance; Inflammation; Genetic polymorphism (Broadley, K.J. (533) 15)

Stomach

Ghrelin; Cholinergic; Tachykininergic; Nitrergic; (Rat) (Bassil, A.K. (544) 146)

Gastric; Mucous epithelial cell; Indomethacin; Non-steroidal anti-inflammatory drug; Cyclooxygenase inhibitor (Kavvada, K.M. (549) 41)

Store-mediated

Pleural mesothelial cell; Calcium channel; Mycalolide B; Actin cytoskeleton (Kuwahara, M. (542) 16)

Store-operated

Ginsenoside-Rd; Receptor-operated; Ca²⁺ channel; Ca²⁺ entry (Guan, Y.-Y. (548) 129)

Store-operated Ca²⁺ entry

GEA3162; Neutrophil; Thiol oxidation; Protein tyrosine phosphorylation; Actin reorganization (Hsu, M.-F. (535) 43)

Streptozotocin

Diabetes; Rat mesenteric bed; Endothelium; Lovastatin; Chelerythrine (Fatehi-Hassanabad, Z. (535) 228)

Diabetic neuropathic pain; Hyperalgesia; Curcumin; Nitric oxide; TNF- α (Sharma, S. (536) 256)

Atropine; Hot-plate; Fluoxetine; Naloxone; Neuropathic pain; Tail-immersion (Anjaneyulu, M. (538) 80)

(–)-Epigallocatechin-3-gallate; Oxygen free radical; Glucose; Insulin (Yun, S.-Y. (541) 115)

Stress-induced hyperthermia

Body temperature; GABAA receptor; Genetic background; 5-HT7 receptor; (Mouse) (Van Bogaert, M. (550) 84)

Striatum

Dopamine receptor; Nucleus accumbens; Amitriptyline; Mirtazapine; Sertraline; RT-PCR (Reverse Transcriptase-Polymerase Chain Reaction) (Huzarska, M. (532) 208)

Dopamine; Excitotoxic lesion; Neurotensin; Prefrontal cortex (Radja, F. (539) 158)

Anatoxin-a; Dopamine; Glutamatergic receptor; *In vivo* microdialysis; Nicotinic receptor; Nitric oxide (Campos, F. (548) 90)

6-OHDA-lesioned rat; Priming; Histamine H₃ receptor; Dopamine D₁ receptor; Vacuous chewing movement; Catalepsy; Microdialysis (Nowak, P. (552) 46)

Stroma

α_{1L} -Adrenoceptor; RS-17053; WB 41011; Tamsulosin; Prostate (Gray, K.T. (540) 155)

Structural remodeling

Atrial fibrillation; Electrical remodeling; Amiodarone; Matrix metalloproteinase (Ashikaga, K. (536) 148)

Structure activity relationship

Inverse agonist; Neutral antagonist; Medicinal chemistry (Greasley, P.J. (553) 1)

Strychnine

Glycine receptor; Patch-clamp; [³H]strychnine binding; Antimalarial drug (Philippe, G. (530) 15)

Brucine; Glycine receptor; Nicotinic acetylcholine receptor- $\alpha 7$ (Jensen, A.A. (539) 27)

strychnine binding

Strychnine; Glycine receptor; Patch-clamp; Antimalarial drug (Philippe, G. (530) 15)

Submaxillary gland

Bladder; Oral administration; Tolterodine; Oxybutynin; Muscarinic receptor binding; Salivation (Oki, T. (529) 157)

Substance P

Tachykinin NK₁ receptor antagonist; L-732,138; Antigen; Sensitization; EEG (Electroencephalogram) spike; Olfactory bulb; Cyproheptadine; Olopatadine; Epinastine (Rahman, M.A. (532) 155)

Tachykinin; Neurokinin A; Asthma; Chronic obstructive pulmonary disease; Airway inflammation (De Swert, K.O. (533) 171)

Neuropathic pain; Sodium channel; Dorsal root ganglion; Nerve injury (Akada, Y. (536) 248)

Olopatadine hydrochloride; Contact dermatitis; *c-Fos*; Eczematous lesion (Hamada, R. (547) 45)

Bepotastine besilate; Itch-associated response; Leukotriene B₄; Histamine; Serotonin; Zileuton (Andoh, T. (547) 59)

Tachykinin NK₁ receptor; Colitis; RP 67580; (Mice) (Rijnierse, A. (548) 150)

Substance P release

Olopatadine; Dorsal root ganglion; Bradykinin; Capsaicin; Transient receptor potential vanilloid 1 (Tang, H.-B. (552) 78)

Substantia gelatinosa

TRPV1; Spinal cord; Inflammation; Glutamate; Synaptic transmission (Lappin, S.C. (540) 73)

GABA_A receptors; IPSC; Propofol; Midazolam; Patch clamp; (Mouse) (Takahashi, A. (553) 120)

α_1 -subunit

Neurosteroid; GABA_A receptor; α_5 -subunit; *Xenopus* oocyte (Rahman, M. (547) 37)

α subunit

Voltage-gated Na⁺ channel; β subunit; mRNA expression; Peripheral tissue; (Human) (Candenas, L. (541) 9)

β subunit

Voltage-gated Na⁺ channel; α subunit; mRNA expression; Peripheral tissue; (Human) (Candenas, L. (541) 9)

$\alpha 5$ subunit

GABA_A receptor; Benzodiazepine; RY-080; Proconvulsant; In vivo binding (Atack, J.R. (548) 77)

α_5 -subunit

Neurosteroid; GABA_A receptor; α_1 -subunit; *Xenopus* oocyte (Rahman, M. (547) 37)

Subunit selectivity

Felbamate; GABA_A receptor; Epilepsy; Anticonvulsant (Simeone, T.A. (552) 31)

Sucrose

N-Acetylcysteine; Lipid profile; Glycaemia; Oxidative stress (Diniz, Y.S. (543) 151)

Sufentanil

Receptor; Vasodepressor; Pulmonary hypertension (Kaye, A.D. (534) 159)

MEK1/2 activity; SNC-80; U50488H; Morphine addiction; Rat brain (Asensio, V.J. (539) 49)

Sulfonylurea receptor

Potassium channel opener; Detrusor smooth muscle; Smooth muscle relaxation; ATP-sensitive potassium channels; Outlet obstruction; Overactive bladder (Milicic, I. (532) 107)

Sulfonylureas

Mitiglinide; K_{ATP} channel; Ischemia-reperfusion; Cardiac function; Coronary perfusion flow (Maruyama, I. (531) 194)

Superoxide

Angiotensin converting enzyme inhibitor; Dihydropyridine; Endothelial cell; High glucose; Nitric oxide (Rosenkranz, A.C. (529) 55)

NADPH oxidase; Neutrophil; Aorta; Aortic valve; HUVEC (human umbilical vein endothelial cell); Fibroblast; Perhexiline (Kennedy, J.A. (531) 13)

Aorta; Homocysteine; Copper; Nitric oxide; NADPH oxidase (Shukla, N. (531) 201)

NADPH oxidase [nicotinamide adenine dinucleotide phosphate oxidase]; Endothelial cell; Pulmonary artery (Muzaffar, S. (538) 108)

p47^{phox}; SHR (spontaneously hypertensive rat); Spontaneous tone (Lodi, F. (544) 97)

Cardiomyocyte; Reperfusion injury; Microtubule; Tubulin ligand; NADPH oxidase (Devillard, L. (548) 64)

NADPH oxidase; gp91^{phox}; Deoxycorticosterone acetate (DOCA)-salt hypertension (Fujii, A. (552) 131)

Superoxide anion

Homocysteine; Porcine coronary artery; BK_{Ca} channel; Nicotinamide adenine dinucleotide phosphate-oxidase (Au, A.L.S. (546) 109)

Paw edema; Carrageenan; Peroxynitrite; SOD mimetic; Hyperalgesia; TEMPOL (Khattab, M.M. (548) 167)

Superoxide anion release

Human neutrophil; Formylpeptide; Chemotaxis; Protein kinase C; MAP kinase (Selvatici, R. (534) 1)

Superoxide dismutase

Aconitase; Antioxidant; Closed cranial impact; Mn (III) porphyrin; Traumatic brain injury; (Mouse) (Leinenweber, S.B. (531) 126)

Oxidants; Antioxidants; Lungs; Glutathione; Thioredoxin (Rahman, I. (533) 222)

Luteolin (3',4',5,7-tetrahydroxyflavone); Human lung squamous carcinoma CH27 cell line; Catalase; Apoptosis (Wing-Cheung Leung, H. (534) 12)

Oxidative stress; Diabetes; N -acetylcysteine; Myocardial dysfunction (Xia, Z. (544) 118)

Mouse stomach; Gastric relaxation; Photodegradable nitric oxide store; Localisation (Ögülcener, N. (548) 137)

Superoxide scavenging

Mangiferin; Polyphenols; Iron; Cytoprotection (Pardo-Andreu, G.L. (547) 31)

Suramin

Hyperglycaemia; Glucose formation; Renal tubules; Pyruvate kinase; (Rabbit) (Jagielski, A.K. (537) 205)

Survival rate

Nicorandil; Ischemic skin flap; K_{ATP} channel (Qi, Z. (550) 127)

SV2A

Levetiracetam; Antiepileptic; Binding; Human brain (Gillard, M. (536) 102)

Swelling

Cortical neurons; Ischemia; Excitotoxicity; Glutamate receptors; Cytoplasmic calcium; MAPK [mitogen-activated protein kinase] (Franceschini, D. (553) 18)

Swiss

Reserpine; Nitric oxide synthase; C57BL/6; 7-Nitroindazole; (Mice) (Tadaie-sky, M.T. (535) 199)

Sympathetic innervation

Chronic desipramine treatment; α_2 -adrenoceptor; κ -opioid receptor; μ -opioid receptor; Myenteric plexus (Canciani, L. (553) 269)

Synaptic transmission

TRPV1; Spinal cord; Inflammation; Glutamate; Substantia gelatinosa (Lappin, S.C. (540) 73)

Synaptoneurosomes

20(S)protopanaxadiol; 20(S)protopanaxatriol; Rh₂; [³H]Batrachotoxinin; Brain (Duan, Y. (530) 9)

Synergy

Cannabinoid; Opioid; Enhanced antinociception (Williams, I.J. (539) 57)

Fentanyl; Histamine H₃ receptor agonist; Nociception; Plasma extravasation (Poveda, R. (541) 53)

Synoviocyte

Glutamate receptor antagonist; Antirheumatic drug; Proliferation; In vitro (Parada-Turska, J. (535) 95)

Systemic lupus erythematosus

(S)-armepavine; Splenocyte proliferation; IL-2; Immune complex deposition; Anti-dsDNA autoantibody (Liu, C.-P. (531) 270)

Systolic blood pressure

Olanzapine; Weight gain (Patil, B.M. (551) 112)

T cell

Histamine; B cell; Histamine receptor; Inflammation; Allergy; Asthma (Akdis, C.A. (533) 69)

T helper cell

Allergy; Asthma; Bacterial extract; CpG motif; Hygiene hypothesis; Lipopolysaccharide; Mycobacteria; Probiotics; Toll-like receptors; T regulatory cells (Feleszko, W. (533) 308)

T regulatory cells

Allergy; Asthma; Bacterial extract; CpG motif; Hygiene hypothesis; Lipopolysaccharide; Mycobacteria; Probiotics; T helper cell; Toll-like receptors (Feleszko, W. (533) 308)

T24 cell line

Adenosine A_{2B} receptor; cAMP; 5'-N-Ethylcarboxamidoadenosine; Reverse transcriptase-polymerase chain reaction; Fluorometric imaging plate reader (Phelps, P.T. (536) 28)

Tachykinin

Substance P; Neurokinin A; Asthma; Chronic obstructive pulmonary disease; Airway inflammation (De Swert, K.O. (533) 171)

VIP; Cytokine; Lung (Groneberg, D.A. (533) 182)

Tachykinin NK₁ receptor

Colitis; Substance P; RP 67580; (Mice) (Rijnierse, A. (548) 150)

Tachykinin NK₁ receptor antagonist

L-732,138; Substance P; Antigen; Sensitization; EEG (Electroencephalogram) spike; Olfactory bulb; Cyproheptadine; Olopatadine; Epinastine (Rahman, M.A. (532) 155)

Tachykinin NK₃ receptor

Cocaine; SR 142801; Marmoset; Behavior; Sensitivity (De Souza Silva, M.A. (536) 269)

Tachykininergic

Ghrelin; Cholinergic; Nitroergic; Stomach; (Rat) (Bassil, A.K. (544) 146)

Tachykinins

Neurokinin A; NK₂ receptor antagonist; Oral activity; Colon contraction; Gastrointestinal disorders; Bronchoconstriction (Cialdai, C. (549) 140)

Tacrolimus

Allergic dermatitis; Hapten; Mouse; Scratching behavior; Immunoglobulin E; Interferon- γ ; Interleukin-4; Interleukin-5; Dexamethasone (Inagaki, N. (546) 189)

Tadalafil

Anococcygeus muscle; BAY 41-2272; Soluble guanylyl cyclase; Nitric oxide; Nitroergic nerve (Teixeira, C.E. (530) 157)

Sildenafil; Vardenafil; Corpus cavernosum; Signal transduction (Lau, L.-C. (541) 184)

Tail-flick

Pain; Dopamine; Apomorphine; (*S*)-(-)-sulpiride; Domperidone; Paw pressure; Formalin (Pelissier, T. (546) 40)

Tail-immersion

Atropine; Hot-plate; Fluoxetine; Naloxone; Neuropathic pain; Streptozotocin (Anjaneyulu, M. (538) 80)

Tamoxifen

Morphine; NMDA receptor antagonist; Antinociception; Acute tolerance; Estradiol (Shekunova, E.V. (535) 78)

Guanylyl cyclase; Estrogen receptor; Methylene blue; Pertussis toxin (Alex, A.B. (546) 102)

Tamoxifen derivatives

Impermeant triphenylethylene salts; Non-genomic effects; Uterine muscle; Intestinal muscle; Ca^{2+} channels (Marrero-Alonso, J. (532) 115)

Tamsulosin

$\alpha_{1\text{L}}$ -Adrenoceptor; RS-17053; WB 41011; Prostate; Stroma (Gray, K.T. (540) 155)

α_1 -Adrenoceptor; Intraurethral pressure; Premicturition contraction; Bladder outlet obstruction (Ohtake, A. (545) 185)

Tanshinone IIA

Nuclear factor κB ; NF- κB -inducing kinase; I κB kinase; Mitogen-activated protein kinase; Lipopolysaccharide (Il Jang, S. (542) 1)

Tardive dyskinesia

Neuroleptic; Adenosinergic receptor system; Caffeine; Adenosine (Bishnoi, M. (552) 55)

T-cell

Phosphodiesterase 7A; Phosphodiesterase 4; Interleukin-2; Tumor necrosis factor- α ; YM-393059; YM976 (Yamamoto, S. (541) 106)

TdP (Torsade de Pointes)

Action potential duration; Antibiotics; Drug-induced long QT; Early after-depolarizations; Long QT syndrome (Lu, H.R. (553) 229)

Tear secretion

Melatonin; Diadenosine tetraphosphate; Dinucleotides; Melatonin receptor; P2Y receptor (Hoyle, C.H.V. (552) 159)

Temozolomide

Malignant glioma treatment; Irradiation; Tissue remodelling; Metalloproteinases; Tumour invasiveness; Proteomics (Trog, D. (542) 8)

Tempol

Parkinson's disease; PC12 cells; MAPK (mitogen-activated protein kinases); Neurotoxicity; Neuroprotection (Lipman, T. (549) 50)

TEMPOL

Paw edema; Carrageenan; Superoxide anion; Peroxynitrite; SOD mimetic; Hyperalgesia (Khattab, M.M. (548) 167)

Terazosin

Thyroid hormone; Hyperlipidemia; Hyperglycemia; Lipid peroxidation (Jatwa, R. (551) 87)

Testicular capsule

Adrenoceptor; Neurotransmission; Contraction; PCR (polymerase chain reaction); Smooth muscle (Jurkiewicz, N.H. (543) 141)

 Δ^9 -tetrahydrocannabinol

Cannabinoids; Catalepsy; 5-HT $_{1A}$ receptor; 5-HT (5-hydroxytryptamine, serotonin); (Mouse) (Egashira, N. (550) 117)

Tetraethylammonium

14-Benzoyltalatisamine; Channel blocker; Delayed rectifier K^+ channel; Drug discovery; Virtual screening (Song, M.-K. (531) 47)

Tetrahydrobiopterin

Folic acid; Endothelium; Endothelial dysfunction (Moat, S.J. (530) 250)

L-DOPA; Nitric oxide (Abreu-González, P. (541) 33)

Tetrahydrocannabinol

Improgan; Analgesia; Pain; Cannabinoid; Cannabinoid CB $_1$ receptor (Nalwalk, J.W. (549) 79)

Tetrahydropyran derivative

Morphine; Antinociceptive activity; Opioid (Marinho, B.G. (550) 47)

Tetrodotoxin-sensitive Na^+ channel

^{45}Ca uptake; $\text{Na}^+/\text{Ca}^{2+}$ -exchanger; Hippocampal synaptosome (Costa, J. (544) 39)

Tetrodotoxin-resistant Na^+ channel

Mexiletine; Vincristine; Nitric oxide; Hyperalgesia (Kamei, J. (536) 123)

TGF- β (Transforming growth factor- β)

Airway remodeling; Asthma; G protein coupled receptor; PDGF (Platelet-derived growth factor) (Gosens, R. (535) 253)

TGF- β_1 (transforming growth factor beta-1)

N-hexacosanol; Diabetes; Nephropathy; Malonaldehyde; PKC (protein kinase C) (Saito, M. (544) 132)

Th1 response

Dendritic cell; Sesquiterpene; Cholera toxin; Th2 response (Takei, M. (537) 190)

Th2 response

Dendritic cell; Sesquiterpene; Th1 response; Cholera toxin (Takei, M. (537) 190)

Thalidomide

Tumor necrosis factor; Hyperalgesia; Arthritis; Zymosan (Vale, M.L. (536) 309)

Thapsigargin

Prostaglandin E $_2$; Endothelial cell; L-*cis*-diltiazem; Dibutyryl cAMP; 8-bromo-cGMP; Cyclic nucleotide gated channel (Shalom, R. (543) 8)

Th-cell

Phosphodiesterase 7A; Phosphodiesterase 4; Neutrophil; Immunosuppressant; Cyclosporine; YM-393059 (Yamamoto, S. (550) 166)

The amygdala

Flesinoxan; 5-HT $_{1A}$ receptor agonist; Fear conditioning; The hippocampus; The medial prefrontal cortex (Li, X. (532) 74)

The hippocampus

Flesinoxan; 5-HT $_{1A}$ receptor agonist; Fear conditioning; The amygdala; The medial prefrontal cortex (Li, X. (532) 74)

The medial prefrontal cortex

Flesinoxan; 5-HT_{1A} receptor agonist; Fear conditioning; The hippocampus; The amygdala (Li, X. (532) 74)

Therapeutic window

Ischemic stroke; Learning and memory; Hippocampal damage; Melanocortins; (Mongolian gerbil) (Giuliani, D. (538) 48)

Therapy

Kinin; Airway inflammation; Animal model; Asthma (Abraham, W.M. (533) 215)

Thermal hypersensitivity

Scorpion BmK venom; Paw inflammation; Spontaneous pain; Mechanical hypersensitivity (Bai, Z.-T. (552) 67)

Thermal stimulation

Spinal Fos-like immunoreactivity; Skin incision; Nociception (Zhu, C.Z. (531) 108)

Thermosensation

TRPM8; Menthol; Icilin; Cold allodynia; Canine (Liu, Y. (530) 23)

Theta power

Scopolamine; Radial maze; Hippocampus; Peak frequency (Masuoka, T. (539) 76)

Thiol

Cystathionine; Doxorubicin; Ehrlich tumor; Liver; Toxicity (Kwiecień, I. (550) 39)

Antioxidant; Newborn; Hypoxia-reoxygenation; Matrix metalloproteinase (Emara, M. (544) 168)

Thiol oxidation

GEA3162; Neutrophil; Store-operated Ca²⁺ entry; Protein tyrosine phosphorylation; Actin reorganization (Hsu, M.-F. (535) 43)

Thiopental

Etomidate; Ketamine; Proconvulsant; Glutamate; Excitatory amino acid transporter type 3; Voltage clamp; *Xenopus* oocyte (Yun, J.-Y. (531) 133)

Thioperamide

Cerebral ischemia; Gerbil; Histamine; Histamine H₃ receptor; L-Histidine; Hypothermia (Adachi, N. (546) 69)

Thioredoxin

Oxidants; Antioxidants; Lungs; Glutathione; Superoxide dismutase (Rahman, I. (533) 222)

THIP

GABA_A; δ -subunit; knockout mouse (Boehm, S.L. (541) 158)

Thoracic artery

Chlorzoxazone; Ca²⁺-activated K⁺ channel; Relaxation (Dong, D.-L. (545) 161)

Thrombin

Protease-activated receptor; Platelet activation (Wu, C.-C. (546) 142)

Andrographis paniculata; Diterpenoids; Inhibition; Aggregation; ERK1/2 (Thisoda, P. (553) 39)

Thrombin inhibitor

Mast cell; Histamine release; G protein; Basic secretagogue; Azaphenylalanine scaffold (Štempeľ, M. (538) 182)

Thromboxane A₂

Histamine; Cyclooxygenase-1; Catecholamines; Adrenal medulla (Shimizu, T. (541) 152)

Thromboxane A₂ receptor

G₁₂ family G protein; Rho; Proliferation; ERK (Honma, S. (545) 100)

Thromboxane B₂

PC-09; Platelet aggregation; Cyclic AMP; Glycoprotein IIb/IIIa (Cherng, S.-C. (532) 32)

Thymocyte

Glucocorticoid; Glucocorticoid-induced leucine zipper (GILZ); Apoptosis; Genomic effect; Non-genomic effect (Bruscoli, S. (529) 63)

Thymoquinone

Forebrain ischemia; Oxidative stress; Hippocampal damage (Al-Majed, A.A. (543) 40)

Thyroid hormone

Terazosin; Hyperlipidemia; Hyperglycemia; Lipid peroxidation (Jatwa, R. (551) 87)

Hyperthyroidism; Montmorillonite; Entero-hepatic circulation (Cai, Y. (551) 156)

Thyrotoxicosis

Cardiac myocyte shortening; Ca²⁺ transients; Ryanodine receptor; Cyclic GMP (Zhang, Q. (537) 45)

Tiotropium

Muscarinic receptor; Antimuscarinic agent; COPD (Chronic Obstructive Pulmonary disease); Asthma; Ipratropium (Gross, N.J. (533) 36)

Tissue inhibitor of MMP

Matrix metalloproteinase; Asthma; Cytokine; Growth factors (Gueders, M.M. (533) 133)

Tissue remodelling

Malignant glioma treatment; Temozolomide; Irradiation; Metalloproteinases; Tumour invasiveness; Proteomics (Trog, D. (542) 8)

Titanocene

Haematopoiesis; Tumour; Natural killer (Valadares, M.C. (534) 264)

T-lymphocyte

Delayed hypersensitivity; Lymphocyte function-associated antigen-1; Cell adhesion molecule; Receptor antagonist (Panzenbeck, M.J. (534) 233)

TNF (tumor necrosis factor)

PEG-sTNFRI (polyethylene glycol linked to soluble TNF receptor p55); GH (growth hormone); IGF-I (insulin-like growth factor-I); Arthritis; Adjuvant-induced (Granado, M. (536) 204)

TNF- α

Quercetin; MC3T3-E1 osteoblastic cell; Growth inhibition; Apoptosis induction (Son, Y.-O. (529) 24)

Carbocysteine; Glycosyltransferase mRNA; Sialyl-Lewis x; Phosphatidyl inositol-specific phospholipase C; NCI-H292 (Ishibashi, Y. (530) 223)

Adenosine deaminase; Adenosine; Anti-inflammatory; DTH (Kuno, M. (534) 241)

Pentoxifylline; Carboxylated metabolite; Macrophage; Endothelium; ABC transporter (Fantin, M. (535) 301)

Secretory phospholipase A₂; Apoptosis; Caspase; Poly (ADP-ribose) polymerase; Cytochrome c (Lee, C. (536) 47)

Diabetic neuropathic pain; Hyperalgesia; Curcumin; Nitric oxide; Streptozotocin (Sharma, S. (536) 256)

Azithromycin; Lipopolysaccharide; Pulmonary neutrophilia; Septic shock (Ivetić Tkalčević, V. (539) 131)

β-glucan; Lipid peroxidation; Glutathione; Myeloperoxidase activity; Apoptosis (Şener, G. (542) 170)

Arthritis; Cysteinyl leukotriene; Mast cell (Shiota, N. (548) 158)

Tolerance

Morphine; Vesicular glutamate transporter (Suzuki, M. (535) 166)

Aminoguanidine; NO (Nitric oxide); Dependence (Abdel-Zaher, A.O. (540) 60)

SR141716; Hexarelin; Food intake; Body weight (Rigamonti, A.E. (542) 116)

Ileum; Guinea pig; Dependence; Morphine; Lithium (Alborzi, A. (545) 123)

Toll-like receptors

Allergy; Asthma; Bacterial extract; CpG motif; Hygiene hypothesis; Lipopolysaccharide; Mycobacteria; Probiotics; T helper cell; T regulatory cells (Feleszko, W. (533) 308)

Tolperisone

Voltage dependent sodium channel; Lidocaine; *Xenopus laevis* oocyte; Local anesthetic (Hofer, D. (538) 5)

Tolterodine

Bladder; Submaxillary gland; Oral administration; Oxybutynin; Muscarinic receptor binding; Salivation (Oki, T. (529) 157)

Torsade de pointes

Maprotiline; Acquired long QT syndrome; Arrhythmia; *HERG* potassium channel; *I_{Kr}*; QT interval; Rapid delayed rectifier (Ferrer-Villada, T. (531) 1)

Ventricular stretch; α₁-Adrenergic receptor; Repolarization prolongation; Proarrhythmia; QT interval (Farkas, A.S. (537) 118)

Total cholesterol

Schisandrin B; Fenofibrate; Triglyceride; Hypertriglyceridemia (Pan, S.-Y. (537) 200)

Bifentate; Fenofibrate; Hypercholesterolemia; Fatty liver; Triglyceride (Pan, S.-Y. (552) 170)

Toxicity

Cystathionine; Doxorubicin; Ehrlich tumor; Liver; Thiol (Kwiecień, I. (550) 39)

TPCK (N-tosyl-L-phenylalanyl-chloromethyl ketone)

Ceramide; Hypoxia-ischemia; Neuroprotection; Apoptosis; Newborn rat (Feng, Y. (551) 34)

TR— rat

Organic anion transporter; Probenecid; Adefovir clearance (Servais, A. (540) 168)

Trachea

Rho-kinase; Smooth muscle contraction; Cholinergic nerve; Acetylcholine release (Fernandes, L. (550) 155)

Ca²⁺ channel; Guinea pig; Mechanotransduction; Mechanical stress; TRP (transient receptor potential) channel (Ito, S. (552) 135)

Airway; Azithromycin; Contraction; Macrolide; Smooth muscle (Daenas, C. (553) 280)

Tramadol

Morphine; Buprenorphine; Fentanyl; Antinociception; Knock-out mice; μ-opioid peptide receptor; α₂-adrenoceptor (Özdoğan, Ü.K. (529) 105)

Enantiomers; Aorta; Vasodilatation; Papillary muscle; Naloxone (Raimundo, J.M. (530) 117)

5-HT transporter; 5-HT₃ receptor; Emesis; Patch clamp; [³H]5-HT uptake (Barann, M. (531) 54)

Lidocaine; Nerve injury; Delayed depolarization; Slow sodium currents; Hyperpolarizing afterpotential (Mert, T. (543) 54)

Transcription factor

Glucocorticoid receptor; Histone deacetylase; Histone acetyltransferase; Nuclear factor-κB; Inflammation; Asthma; COPD (chronic obstructive pulmonary disease); Corticosteroid resistance (Barnes, P.J. (533) 2)

Glycyrrhizic acid; Neuroprotection; Glutamate; NMDA receptor; Neuronal apoptosis; Ca²⁺ influx (Cherng, J.-M. (547) 10)

Transcription factors

Apoptosis; Differentiation; Histone deacetylase inhibitor; Leukemia (Savickiene, J. (549) 9)

Transcriptome

Mitotic catastrophe; WP631; Anthracycline; Jurkat T lymphocyte; p53 (Mansilla, S. (540) 34)

(–)-Trans-ε-viniferin

Noradrenaline and 5-hydroxytryptamine uptake; Human recombinant MAO isoform; Human platelet; Rat brain synaptosome (Yáñez, M. (542) 54)

Transforming growth factor-β

Chemotaxis; 17-β-estradiol; Estrogen receptor; Smad proteins; Breast cancer cell (Malek, D. (534) 39)

Transgenic animal models

Hemodynamics; Ischemia; Remodeling (Koch, M. (550) 143)

Transgenic mouse

Muscarinic receptor; Cognition; Animal model; Anxiety (Degroot, A. (531) 183)

Transient outward current

Haloperidol; Sigma receptors; Rat ventricular myocytes; Whole-cell patch clamp; Quantitative model (Bébarová, M. (550) 15)

Transient receptor potential vanilloid 1

Cough; Asthma exacerbation; Acidic media (Geppetti, P. (533) 207)

Olopatadine; Substance P release; Dorsal root ganglion; Bradykinin; Capsaicin (Tang, H.-B. (552) 78)

Transmesothelial resistance

Pleura; Morphine; Ussing system; (Sheep) (Vogiatzidis, K. (530) 276)

Transmigration

Neutrophil; Cannabinoid; Chemotaxis; Interleukin 8 (Nilsson, O. (547) 165)

Transmitter release

Presynaptic; Calcium channel; Analgesia; Anticonvulsant; Anxiolytic (Joshi, I. (553) 82)

Transplantation

Pirfenidone; Chronic rejection (Dosanjh, A. (536) 219)

Transporter

Norepinephrine; Calcium; Membrane traffic (Amano, T. (536) 62)

Traumatic brain injury

Aconitase; Antioxidant; Closed cranial impact; Mn (III) porphyrin; Super-oxide dismutase; (Mouse) (Leinenweber, S.B. (531) 126)

Na-K-2Cl cotransporter; Brain edema; Bumetanide (Lu, K.-T. (548) 99)

Traumatic mononeuropathy

Somatostatin; Anti-nociceptive effect; Formalin test; Adjuvant-induced inflammation (Sándor, K. (539) 71)

Triacylglycerol

Adrenoceptor; Cyclic AMP; Epinephrine; Isoproterenol; VLDL (Rasouli, M. (545) 109)

Tricarboxylic acid cycle

Ibogaïne; Addiction; Energy metabolism; Glycolysis; Proteomics; Rat brain (Paškulin, R. (552) 11)

Tricyclic antidepressant

HT29 colorectal tumor cell; Apoptotic cell death; Non-mitochondrial pathway; Cell-cycle arrest (Arimochi, H. (541) 17)

Trigeminal neuralgia

Allodynia; Analgesia; Spinal cord injury pain; Hyperalgesia; Infraorbital nerve; Lacosamide (Hao, J.-X. (553) 135)

Triglyceride

Squalene synthase inhibitor; 2-Biphenylmorpholine compounds; Cholesterol; Low-density lipoprotein receptor; Apolipoprotein B (Tavridou, A. (535) 34)

Schisandrin B; Fenofibrate; Total cholesterol; Hypertriglyceridemia (Pan, S.-Y. (537) 200)

Bifentate; Fenofibrate; Hypercholesterolemia; Fatty liver; Total cholesterol (Pan, S.-Y. (552) 170)

Trimedoxime

Pyridinium oxime; Acetylcholinesterase; Antidote; Pralidoxime; Obidoxime; HI-6; HLö-7; Warfare nerve agent; Organophosphorus insecticide (Jokanović, M. (553) 10)

2,4,6-trinitro-1-chlorobenzene

Rolipram; Phosphodiesterase 4; Dermatitis (Harada, D. (532) 128)

2',4',6'-Tris(methoxymethoxy) chalcone

Nitric oxide; Nuclear factor- κ B; Heme oxygenase 1; p42/44 MAPK; GSH (Lee, S.H. (532) 178)

TrkB

Caffeic acid; Antidepressive-like effect; Forced swimming; BDNF; (Mice) (Takeda, H. (534) 115)

Trophic factor

Neurogenesis; Neural progenitor cell; Cell death; Antioxidant (Niidome, T. (548) 1)

Tropisetron

Schizophrenia; Cognition; α 7 Nicotinic receptor; 5-HT₃ receptor; NMDA receptor (Hashimoto, K. (553) 191)

TRP (transient receptor potential) channel

Ca²⁺ channel; Guinea pig; Mechanotransduction; Mechanical stress; Trachea (Ito, S. (552) 135)

TRPM8

Menthol; Icilin; Cold allodynia; Thermosensation; Canine (Liu, Y. (530) 23)

TRPV1

Spinal cord; Inflammation; Glutamate; Synaptic transmission; Substantia gelatinosa (Lappin, S.C. (540) 73)

TRPV1 (transient receptor potential vanilloid 1)

Capsaicin; Anandamide; Protons; Ligand-gated ion channel; Pain (Bianchi, B.R. (537) 20)

Tryptase

Nafamostat mesilate; PAR-2 receptor; Scratching; Itch; (Mouse) (Ui, H. (530) 172)

Tubulin ligand

Cardiomyocyte; Reperfusion injury; Microtubule; Superoxide; NADPH oxidase (Devillard, L. (548) 64)

Tumor necrosis factor

Thalidomide; Hyperalgesia; Arthritis; Zymosan (Vale, M.L. (536) 309)

Tumor necrosis factor α

N-acetylcysteine; Vascular endothelial cells; Apoptosis (Xia, Z. (550) 134)

Tumor necrosis factor- α

Dihydrocucurbitacin B; Adjuvant-induced arthritis; Nitric oxide synthase; Cyclooxygenase; Interleukin-1 β (Escandell, J.M. (532) 145)

N-Allylsecoboldine; Acute renal failure; Endotoxemia; Nitric oxide synthase; α ₁-adrenoceptor antagonist (Chiao, C.-W. (535) 291)

Phosphodiesterase 7A; Phosphodiesterase 4; Interleukin-2; T-cell; YM-393059; YM976 (Yamamoto, S. (541) 106)

Tumor therapy

Angiogenesis; Antiangiogenic agent; 5-S-GAD (Nishikawa, T. (539) 151)

Tumour

Titanocene; Haematopoiesis; Natural killer (Valadares, M.C. (534) 264)

Tumour invasiveness

Malignant glioma treatment; Temozolomide; Irradiation; Tissue remodelling; Metalloproteinases; Proteomics (Trog, D. (542) 8)

Tumour necrosis factor- α

Acetaminophen; β -glucan; Glutathione; Lipid peroxidation; Oxidative injury (Toklu, H.Z. (543) 133)

TXA₂

Neuropeptide Y; 5-HT; Endothelium; Coronary artery; Contraction (Tsurumaki, T. (544) 111)

Type 2 diabetes

Calcium-activated K⁺ channel; cAMP; Endothelium-derived hyperpolarizing factor; Mesenteric artery; (Rat) (Matsumoto, T. (538) 132)

Type III secretion system

Intimin; Mucosa-adherent bacterium; Norepinephrine; Cocaine; Enteric nervous system (Chen, C. (539) 116)

Type-2 diabetes

Angiotensin II; Renal failure; Metabolic syndrome; Longevity (Janiak, P. (534) 271)

Tyramine

Ranbezolid; Pressor response; Oxazolidinone; Cold remedies (Naruganahalli, K.S. (545) 167)

Tyr-D-Arg-Phe-sarcosine

Dermorphin; Antinociception; Spinal cord; μ -Opioid receptor; (Mouse) (Mizoguchi, H. (540) 67)

Tyrosine kinase

Shiga toxin; p38 MAPK; Tyrosine kinase inhibitor; Tyrphostin 47 (Ikeda, M. (546) 36)

Tyrosine kinase inhibitor

Shiga toxin; p38 MAPK; Tyrosine kinase; Tyrphostin 47 (Ikeda, M. (546) 36)

Tyrosine-kinase cascade

Imatinib (Glivec®/STI571); c-kit/CD117; Interstitial Cajal-like cell (Popescu, L.M. (546) 177)

Tyrphostin 47

Shiga toxin; p38 MAPK; Tyrosine kinase; Tyrosine kinase inhibitor (Ikeda, M. (546) 36)

U50,488H

Wet-dog shakes; Icilin; Morphine; Buprenorphine; ICI 204,448; Nalfurfine; SNC 80 (Werkheiser, J.L. (547) 101)

U50488H

MEK1/2 activity; Sufentanil; SNC-80; Morphine addiction; Rat brain (Asensio, V.J. (539) 49)

Unilaterally 6-hydroxydopamine lesioned rat

Aplindore; Dopamine D₂ receptor; Chimeric G_{αq/o}-protein; Intracellular calcium flux; ERK-phosphorylation; [³⁵S]GTPγS (Heinrich, J.N. (552) 36)

Upregulation

α 7; Nicotinic receptor; Nicotine; [³H] Methyllycaconitine; cAMP; PKC (Nuutinen, S. (544) 21)

Urotensin-II

Pulmonary circulation; Blood pressure; Hypoxia; Heart failure; Pulmonary hypertension (Deuchar, G.A. (537) 135)

Ussing system

Pleura; Morphine; Transmesothelial resistance; (Sheep) (Vogiatzidis, K. (530) 276)

Uterine muscle

Tamoxifen derivatives; Impermeant triphenylethylene salts; Non-genomic effects; Intestinal muscle; Ca²⁺ channels (Marrero-Alonso, J. (532) 115)

Uterus

Lipopolysaccharide; Prostaglandin; Cyclooxygenase; Nitric oxide synthase (Cella, M. (534) 218)

UTP

ATP; P2Y receptor; HaCaT cell; Keratinocyte; Interleukin-6 (Yoshida, H. (540) 1)

Vacuous chewing movement

6-OHDA-lesioned rat; Priming; Histamine H₃ receptor; Dopamine D₁ receptor; Catalepsy; Striatum; Microdialysis (Nowak, P. (552) 46)

Vagal afferents

L- and D-S-nitrosocysteine; Nitric oxide (Lewis, S.J. (531) 254)

Vagus

Cyclic phosphatidic acid; Respiration; Carotid sinus nerve; Intravenous administration (Hotta, H. (543) 27)

Valproate

2-Phosphonomethyl-pentanedioic acid; Glutamate carboxypeptidase II; Electroconvulsive threshold; Maximal electroshock; Antiepileptic drug; Pharmacokinetic interaction (Luszczki, J.J. (531) 66)

Antidepressant; Dopamine; Imipramine; Mania; Motor activity; Quinpirole (D'Aquila, P.S. (535) 208)

Lithium; Cytotoxicity; Cytochrome *c*; Bcl-2; Caspase-3; Bipolar disorder (Lai, J.S. (539) 18)

BDNF (brain-derived neurotrophic factor); MK801; Retrosplenial cortex (Jeon, G.S. (545) 142)

Mood stabilizers; Carbamazepine; Lithium; Prepulse inhibition; Apomorphine; Dizocilpine (Umeda, K. (553) 157)

Valproic acid

ACEA (Arachidonyl-2-chloroethylamide); Cannabinoid CB₁ receptor; Chimney test; Interaction index; Isobolographic transformation; Maximal electroshock; Neuromuscular grip strength; Pharmacokinetic interaction; Protective index (Luszczki, J.J. (547) 65)

Valvulopathy

Dexfenfluramine; Chronic hypoxia; Pulmonary hypertension; Imaging; (Rat) (Rocheffort, G.Y. (550) 149)

Vanadate

Vanadium; Decavanadate; ATP; P2X receptor (Michel, A.D. (534) 19)

Vanadium

Vanadate; Decavanadate; ATP; P2X receptor (Michel, A.D. (534) 19)

Vanilloid

Cannabinoid; Antinociception (Haller, V.L. (546) 60)

Vanilloid receptor

IL-12; Cannabinoids; 2-arachidonoylglycerol; Dendritic cells (Lu, T. (532) 170)

Vardenafil

Sildenafil; Tadalafil; Corpus cavernosum; Signal transduction (Lau, L.-C. (541) 184)

Vascular endothelial cells

N-acetylcysteine; Tumor necrosis factor α ; Apoptosis (Xia, Z. (550) 134)

Vascular endothelial growth factor

Norepinephrine; RhoA; Endothelial nitric oxide synthase; Extracellular signal-related kinase; Mitogenic effect; Human umbilical vein endothelial cells (Seya, Y. (553) 54)

Vascular permeability

Melatonin; Inflammation; Endothelial cell; Neutrophil (Lotufo, C.M.C. (534) 258)

Vascular relaxation

3',5'-cyclic adenosine monophosphate (cyclic AMP); Radix puerariae; Puerarin (Yeung, D.K.Y. (552) 105)

Vascular smooth muscle

Kaempferol; Apoptosis; 7 β -hydroxycholesterol (Ruiz, E. (529) 79)

Drug combination; Sirolimus; Isobolographic analysis (Parry, T.J. (532) 38)

Vascular smooth muscle cell

High glucose; Hypertension; Nitric oxide; Protein kinase C- β II (Pacheco, M.E. (538) 115)

Ligustilide; Mitogen activated protein kinase (Lu, Q. (542) 136)

Vascular smooth muscle cell proliferation

Phytoestrogen; Dihydrodaidzein; Atherosclerosis; Restenosis after angioplasty (Shen, J. (548) 123)

Vascular smooth muscle tone

Omeprazole; Lansoprazole; Internal mammary artery; Radial artery; Relaxation (Naseri, E. (531) 226)

Vasoconstriction

Histamine; Vasodilation; Perivascular nerve; Rat mesenteric resistance artery (Jin, H. (529) 136)

Interleukin; MAP kinase; Adrenergic agonist (Seto, S.W. (531) 238)

Sarafotoxin 6c; Actinomycin D; Cycloheximide (Eskesen, K. (539) 192)

Vasoconstrictor prostanoid

Coronary blood flow; Coronary vasodilator reserve; Myocardial ischemia; Nitric oxide (Climent, B. (530) 234)

Vasodepressor

Receptor; Sufentanil; Pulmonary hypertension (Kaye, A.D. (534) 159)

Vasodilatation

Tramadol; Enantiomers; Aorta; Papillary muscle; Naloxone (Raimundo, J.M. (530) 117)

Angiotensin II; Cerebral artery; Endothelium-derived hyperpolarising factor (Wackenfors, A. (531) 259)

Ascorbate; EDHF (endothelium-derived hyperpolarizing factor); Flow; Flow-dependent vasodilatation; Perfusion pressure (Stirrat, A. (534) 152)

Vasodilation

Histamine; Vasoconstriction; Perivascular nerve; Rat mesenteric resistance artery (Jin, H. (529) 136)

G $\alpha_{q/11}$ inhibitor; Peripheral arterial disease; Platelet aggregation; Local administration (Uemura, T. (536) 154)

Nitric oxide; EDHF; Endothelium; Nitric oxide synthase; In vivo (Desai, K.M. (546) 120)

Vasopressin V_{1A} receptor

YM218; Nonpeptide antagonist; Mesangial cell (Tahara, A. (538) 32)

Vasopressin V_{1B} receptor antagonist

Hypophysectomy; Anxiety; Arginine vasopressin (Shimazaki, T. (543) 63)

Vasoprotection

Gender difference; Statin; NADPH-dependent superoxide production (Kurumazuka, D. (553) 263)

Vasorelaxation

Aging; Hypoxia; Reoxygenation; Cariporide; Endothelium (Besse, S. (531) 187)

Ca²⁺ channels; Endothelium; p38 MAPK (p38 mitogen-activated protein kinase); Porcine coronary arteries; Raloxifene (Moritz, A. (545) 153)

VCAM-1

4-*O*-methylgallic acid; ICAM-1; NF- κ B; Endothelial cell (Lee, G. (551) 143)

VEGF

Endothelin antagonist; Diabetic heart (Jesmin, S. (542) 184)

Ventricular contractility

Neurotensin; Myocardial norepinephrine; Cardiac hypertrophy (Osadchii, O. (553) 246)

Ventricular function

Hemodynamics; Volatile anesthetic; Isolated heart (Sigg, D.C. (543) 97)

Ventricular myocyte

Paeonol; Action potential; Sodium current; Whole-cell patch-clamp (Ma, Y.-I. (545) 87)

Ventricular stretch

α_1 -Adrenergic receptor; Repolarization prolongation; Torsade de pointes; Proarrhythmia; QT interval (Farkas, A.S. (537) 118)

Verapamil

Cancer; Immune response; L-type Ca²⁺ channel; Walker 256 tumor (Degasper, G.R. (549) 179)

Veratridine

Preconditioning; Depolarization; Cytoprotection; Chromaffin cell (Orozco, C. (553) 28)

Vesicular glutamate transporter

Morphine; Tolerance (Suzuki, M. (535) 166)

Vesicular transport

Colchicine; Hydroxyacetophenone; Horseradish peroxidase (Tradtrantip, L. (547) 152)

Vincristine

Mexiletine; Nitric oxide; Tetrodotoxin-resistant Na⁺ channel; Hyperalgesia (Kamei, J. (536) 123)

VIP

Cytokine; Lung; Tachykinin (Groneberg, D.A. (533) 182)

Virtual screening

14-Benzoyltalatisamine; Channel blocker; Delayed rectifier K⁺ channel; Drug discovery; Tetraethylammonium (Song, M.-K. (531) 47)

Vitamin C

Vitamin E; Cecal ligation and puncture; Cytochrome P450 isozyme; Oxidative stress (Kim, J.-Y. (534) 202)

Oxidative stress; Oxidant; Shear stress; ATP; Dehydroascorbic acid; Anion channels (Davis, K.A. (548) 36)

Vitamin E

Vitamin C; Cecal ligation and puncture; Cytochrome P450 isozyme; Oxidative stress (Kim, J.-Y. (534) 202)

Melatonin; Diabetes; Learning; Memory (Tuzcu, M. (537) 106)

VLDL

Adrenoceptor; Cyclic AMP; Epinephrine; Isoproterenol; Triacylglycerol (Rasouli, M. (545) 109)

Vogel's drinking conflict test

Agmatine; Anxiolytic; Social interaction; Light–dark transition test; Animal models (Gong, Z.-H. (550) 112)

Volatile anesthetic

Hemodynamics; Isolated heart; Ventricular function (Sigg, D.C. (543) 97)

Voltage clamp

Etomidate; Ketamine; Thiopental; Proconvulsant; Glutamate; Excitatory amino acid transporter type 3; *Xenopus* oocyte (Yun, J.-Y. (531) 133)

$\alpha 4\beta 2$ nicotinic acetylcholine receptor; *Xenopus* oocyte; HEK-293 cell; Heterologous expression (Zwart, R. (539) 10)

Voltage dependent sodium channel

Tolperisone; Lidocaine; *Xenopus laevis* oocyte; Local anesthetic (Hofer, D. (538) 5)

Voltage gated sodium channel blocker

Heart rate regulation (Létienne, R. (530) 243)

Voltage-dependence

Choline; Acetylcholine; $\alpha 3\beta 4$ nicotinic receptor; $\alpha 7$ nicotinic receptor (González-Rubio, J.M. (535) 53)

Voltage-dependent K^+ current

Indapamide; Pituitary cell; Apoptosis (Dong, D.-L. (536) 78)

Voltage-gated Na^+ channel

α subunit; β subunit; mRNA expression; Peripheral tissue; (Human) (Candenas, L. (541) 9)

Waking

DOI; EMD 281014; 5-HT_{2A} receptor; 5-HT_{2C} receptor; GABA; LDT/PPT nuclei; REM sleep; SB-243213; Serotonin; Slow wave sleep; (Rat) (Monti, J.M. (553) 163)

Walker 256 tumor

Cancer; Immune response; L-type Ca^{2+} channel; Verapamil (Degasperi, G.R. (549) 179)

Walking disturbance

Beraprost sodium; Intermittent claudication (Miyamoto, M. (545) 173)

Warfare nerve agent

Pyridinium oxime; Acetylcholinesterase; Antidote; Pralidoxime; Obidoxime; Trimedoxime; HI-6; HL6-7; Organophosphorus insecticide (Jokanović, M. (553) 10)

Water maze

Amyloid- β ; Ibotenate; Hippocampus; Memantine; MK-801 (Nakamura, S. (548) 115)

5-HT; Memory; Cognition; Acetylcholine; *In vivo* microdialysis (Hirst, W.D. (553) 109)

WAY-100635

α_2 -adrenoceptor; Atipamezole; Descending inhibition; 5-HT_{1A} receptor; Neuropathic pain (Wei, H. (535) 157)

WB 41011

α_{1L} -Adrenoceptor; RS-17053; Tamsulosin; Prostate; Stroma (Gray, K.T. (540) 155)

Weight gain

Olanzapine; Systolic blood pressure (Patil, B.M. (551) 112)

Western blot

GLP-2 receptor; $G\alpha$ protein signalling; Intestinal growth; RT-PCR; cAMP (Sams, A. (532) 18)

Western blotting

ATP-sensitive K^+ channels (K_{ATP} channels); Basilar artery; Middle cerebral artery; Pressurized arteriography; Quantitative real-time PCR (Ploug, K.B. (553) 254)

Wet-dog shakes

Icilin; Morphine; Buprenorphine; ICI 204,448; Nalfurafine; U50,488H; SNC 80 (Werkheiser, J.L. (547) 101)

Whole blood

Cardamonin; *Alpinia rafflesiana*; RAW 264.7; Inflammatory mediator (Ahmad, S. (538) 188)

Whole-cell patch clamp

Haloperidol; Transient outward current; Sigma receptors; Rat ventricular myocytes; Quantitative model (Bébarová, M. (550) 15)

Whole-cell patch-clamp

Paeonol; Action potential; Sodium current; Ventricular myocyte (Ma, Y.-I. (545) 87)

WIN 55,212-2

Prepulse inhibition; Prenatal treatment (Bortolato, M. (531) 166)

WIN 55212-2

Noradrenergic neurons; CP 55940; Cannabinoid CB₁ receptors; Single-unit extracellular recordings; Slice; *In vivo* (Mendiguren, A. (534) 83)

Agmatine; Cannabinoid; Hypothermia; Imidazoline; CB₁ (Rawls, S.M. (553) 89)

WIN55212-2 [methanone mesylate]

IL-8 [interleukin-8]; I κ B [inhibitory kappa B]; NF- κ B [nuclear factor-kappa B]; cannabinoid; CB₂ receptor; HT-29 (Mormina, M.E. (540) 183)

Withdrawal

Morphine; GABA; Glutamate; Spinal (Dunbar, S.A. (535) 152)

Wogonin

Hemin; Baicalein; Baicalin; Liver injury; HepG2 cell (Zhao, Y. (536) 192)

Wound healing

Beta-3 adrenoceptor; SR58611A; Diabetes; (Mice) (Schaeffer, P. (529) 172)

WP631

Mitotic catastrophe; Transcriptome; Anthracycline; Jurkat T lymphocyte; p53 (Mansilla, S. (540) 34)

Writhing

Paracetamol; Diclofenac; Aminopyrine; Prostaglandin; Cyclooxygenase-3; (Cyclooxygenase knockout mice) (Ayoub, S.S. (538) 57)

Analgesia; Hot-plate; Inflammation; Nociception; Rho-kinase; Y-27632 (Büyükaşar, K. (541) 49)

Writhing test

Imipramine; Fluvoxamine; Milnacipran; Carbamazepine; (Mouse) (Aoki, M. (550) 78)

Xanthine oxidase

Allopurinol; Ischemia-reperfusion; Reactive oxygen species production; Ca^{2+} overload (Kang, S.-M. (535) 212)

Xenon

Anaesthetic preconditioning; Cardiac preconditioning; Mitochondrial adenosine triphosphate dependent potassium channel; Protein kinase C; 3Phosphatidylinositol-dependent kinase-1 (Weber, N.C. (539) 1)

***Xenopus laevis* oocyte**

Voltage dependent sodium channel; Tolperisone; Lidocaine; Local anesthetic (Hofer, D. (538) 5)

***Xenopus* oocyte**

Etomidate; Ketamine; Thiopental; Proconvulsant; Glutamate; Excitatory amino acid transporter type 3; Voltage clamp (Yun, J.-Y. (531) 133)

Nicotinic acetylcholine receptor; Dopamine release; Noradrenaline release; [³H]epibatidine binding; [³H]methyllaconitine binding (Abin-Carriquiry, J.A. (536) 1)

Dextromethorphan; Dextromethorphan analog; $\alpha_3\beta_4$ nicotinic acetylcholine receptor (Lee, J.-H. (536) 85)

$\alpha_4\beta_2$ nicotinic acetylcholine receptor; HEK-293 cell; Voltage clamp; Heterologous expression (Zwart, R. (539) 10)

Neurosteroid; GABA_A receptor; α_1 -subunit; α_5 -subunit (Rahman, M. (547) 37)

Xyrem

Gamma-hydroxybutyrate; GHB; Baclofen; SKF97541; GABA; Sodium oxybate; Drug discrimination (Carter, L.P. (538) 85)

Y₂ receptor

Fluorescent probe; Neuropeptide Y; Flow cytometry; Chimeric G protein; Aequorin; BIIE0246 (Ziemek, R. (551) 10)

Y-27632

Airway hyperresponsiveness; Airway smooth muscle; Allergy; Asthma; Contraction; Ovalbumin; Passive sensitization; Rho-kinase; (Guinea pig) (Schaafsma, D. (531) 145)

Gallbladder; Rho-kinase; Ca²⁺ sensitisation (Quinn, T. (534) 210)

Carbachol; Cholecystokinin; Human gallbladder; Rho-kinase (Büyükaşar, K. (540) 162)

Analgesia; Hot-plate; Inflammation; Nociception; Rho-kinase; Writhing (Büyükaşar, K. (541) 49)

YM218

Vasopressin V_{1A} receptor; Nonpeptide antagonist; Mesangial cell (Tahara, A. (538) 32)

YM-393059

Phosphodiesterase 7A; Phosphodiesterase 4; Interleukin-2; Tumor necrosis factor- α ; T-cell; YM976 (Yamamoto, S. (541) 106)

Phosphodiesterase 7A; Phosphodiesterase 4; Th-cell; Neutrophil; Immunosuppressant; Cyclosporine (Yamamoto, S. (550) 166)

YM440

Insulin resistance; Diabetic nephropathy; Peroxisome proliferator-activated receptor γ ; Zucker fatty rat; Hyperlipidemia (Nakano, R. (549) 185)

YM872

Kindling; AMPA receptor antagonists; Epileptogenesis; (Rat) (Hara, H. (531) 59)

YM976

Phosphodiesterase 7A; Phosphodiesterase 4; Interleukin-2; Tumor necrosis factor- α ; T-cell; YM-393059 (Yamamoto, S. (541) 106)

Y-maze test

Gomisin A; Memory; Passive avoidance test; Morris water maze; Acetylcholinesterase (Kim, D.H. (542) 129)

Yohimbine

Anxiety; Nociception; Antinociception; Diazepam; Acetylsalicylic acid (Jiménez-Velázquez, G. (547) 83)

Zileuton

Bepotastine besilate; Itch-associated response; Substance P; Leukotriene B₄; Histamine; Serotonin (Andoh, T. (547) 59)

(Zebrafish)

Ethanol; Proteomics; DIGE (Damodaran, S. (547) 75)

Zucker fatty rat

Insulin resistance; Diabetic nephropathy; Peroxisome proliferator-activated receptor γ ; YM440; Hyperlipidemia (Nakano, R. (549) 185)

Zymosan

Thalidomide; Tumor necrosis factor; Hyperalgesia; Arthritis (Vale, M.L. (536) 309)

Zymosan-induced arthritis

Apocynin; Zymosan-induced ear swelling; Cartilage proteoglycan (Hougee, S. (531) 264)

Zymosan-induced ear swelling

Apocynin; Zymosan-induced arthritis; Cartilage proteoglycan (Hougee, S. (531) 264)