

Master keyword index to volumes 506–528 (2005)

ABC transporter

Antibesity drug; Cardiovascular disease; Cardiovascular drug; Drug-metabolizing enzyme; Drug target; Inflammation; Nutrigenetics; Nutrigenomics; Obesity; Pharmacodynamic; Pharmacogenetic; Statin (Siest, G. (527) 1)

Abnormal

Aggression; Glucocorticoid (Haller, J. (526) 89)

Acamprosate

Reactive oxygen species; Acute ethanol; Acetaldehyde; Microdialysis (Dahchour, A. (520) 51)

Acetaldehyde

Ethanol; Hepatocyte; p42/44 MAPK; JNK; Apoptosis (Lee, Y.J. (508) 31)

Reactive oxygen species; Acute ethanol; Acamprosate; Microdialysis (Dahchour, A. (520) 51)

Acetic-acid-induced colitis

Celecoxib; Rofecoxib; Myeloperoxidase; Reduced glutathione; Total nitric oxide synthetase (El-Medany, A. (507) 291)

Acetylcholine

Olanzapine; Clozapine; Thioridazine; Muscarinic receptors (Johnson, D.E. (506) 209)

Antihistamine; Anticholinergic; Carbachol; Histamine H₁ antagonist (Orzechowski, R.F. (506) 257)

Dopamine; Microdialysis; Benzodiazepines; Valium; Withdrawal; Flumazenil; (Rat) (Rada, P. (508) 131)

Molsidomine; Sildenafil; Pulmonary hypertension; Atrial natriuretic peptide; (Chronic hypoxic rats) (Andersen, C.U. (510) 87)

Nicotine; Desensitization; Nicotinic receptor; Smoking; Phosphorylation (Marszalec, W. (514) 83)

Neurotransmitter; K_{ATP} channel; Patch clamp; Smooth muscle cell; Stable transfection (Hanna, S.T. (515) 34)

Nitric oxide; Cyclic GMP; Potassium channel; Prostanoid; Endothelial muscarinic receptor; Horse dorsal penile vein (Martínez, A.C. (515) 150)

HI-6; HLö-7; Oxime; Pralidoxime; Toxogonin; Soman (Øydvin, O.K. (516) 227)

Endothelium-dependent relaxation; RHC-80267; Cholinesterase; Diacylglycerol lipase; Mesenteric artery (Ghisdal, P. (517) 97)

Selegiline; Donepezil; Water maze; Memory (Takahata, K. (518) 140)

Pralidoxime derivative; Sedative effect; Soman poisoning; Anticonvulsant effect; Non-reactivation effect (Loke, W.-K. (521) 59)

GABA; GABA receptor; Spinal antinociception; Spinal pain transmission (Kommallage, M. (525) 69)

Acetylcholine binding protein

Voltage-clamp; Alzheimer's disease; α7 nicotinic receptor (Papke, R.L. (524) 11)

Acetylcholine nicotinic receptor

Depression; Antidepressant; Imipramine; Dopamine-mimetic-induced locomotor stimulation; β-adrenoceptor down-regulation (Popik, P. (515) 128)

Acetylcholine release

Serotonin; Serotonin receptor subtype; Spinal antinociception (Kommallage, M. (509) 127)

Acetylcholinesterase

Anticonvulsant; Epileptiform activity; Hippocampal slice; Organophosphate; Soman (Harrison, P.K. (518) 123)

Acetylcholinesterase inhibitor

Caffeic acid phenethyl ester; Gastric acid secretion; Stomach (Borrelli, F. (521) 139)

Nicotinic acetylcholine receptor; Up-regulation; Neuroprotection; Alzheimer's disease (Kume, T. (527) 77)

Acetylsalicylic acid

Vitamin C; Proinflammatory cytokine; Antioxidant enzyme (Konturek, P.C. (506) 169)

Alcohol dehydrogenase; *p*-Hydroxyacetophenone (Negoro, M. (523) 25)

Acidosis

Levosimendan; Epinephrine; Guinea pig; Contractility; cAMP (Toller, W. (507) 199)

ATP-sensitive potassium channel; Human internal mammary artery; pH; Vascular smooth muscle (Rohra, D.K. (514) 175)

Acoustic trauma

Edaravone; Cochlear protection; Antioxidant; Reactive oxygen species; 4-HNE; (4-hydroxy-2-nonenal) (Tanaka, K. (522) 116)

ACTH (adrenocorticotrophic hormone)

Corticosterone; GABA; Paraventricular nucleus; Stress; L-838,417; Diazepam; Zolpidem; Zopiclone; (Mouse) (Mikkelsen, J.D. (519) 223)

Action potential

Cardiac myocyte; Cell contraction; Ca^{2+} current; Red wine (Liew, R. (519) 1)

Acute ethanol

Reactive oxygen species; Acetaldehyde; Acamprosate; Microdialysis (Dahchour, A. (520) 51)

Acute lung injury

Neutrophil; MCP-1 (Monocyte chemoattractant protein-1); Dexamethasone; Cyclosporin A; Tacrolimus (Koshika, T. (515) 169)

Acute pain

Analgesia; Inflammation; Spinal cord; 5-Hydroxytryptamine_{2A} receptor antagonist (Nishiyama, T. (516) 18)

Acute pulmonary embolism

L-arginine; Nitric oxide; Phosphodiesterase-5 inhibitor; Pulmonary hypertension; Sildenafil (Souza-Silva, A.R. (524) 126)

Acute renal failure

Nitric oxide; Ischemia/reperfusion; Endothelin-1 (Kurata, H. (517) 232)

Adaptive change

5-carboxamidotryptamine; Epileptiform activity; Hippocampal slice; WAY 100635; SB 269970 (Tokarski, K. (524) 60)

Addiction

Dependence; Behavioral economics; Choice; Dopamine; Lateral hypothalamus; Cocaine; Heroin; Prefrontal cortex (Ahmed, S.H. (526) 9)

Relapse; Nucleus accumbens; Dopamine; Glutamate (Schmidt, H.D. (526) 65)

Serotonin transporter; Genetics; Alcohol dependence; Environment; Plasticity; Imaging (Lesch, K.-P. (526) 113)

Amygdala; Cocaine; Conditioning; Cue; Reinstatement; Relapse (See, R.E. (526) 140)

Alcohol; Relapse prevention; Treatment; Pharmacotherapy (Kiefer, F. (526) 163)

Dopamine; Human; Attention; Craving; Reward (Franken, I.H.A. (526) 199)

Analgesics; Antidepressant; Drug abuse; Operant behaviour; Opioid; Reinforcement (Magalas, Z. (528) 103)

Adenosine

Caffeine; Neurodevelopment; Maternal intake; Glutamate; Locomotor activity (da Silva, R.S. (509) 155)

Calcium; cAMP; cGMP; GEA 3175; Milrinone; Nitric oxide; Phosphodiesterases; Platelets (Asplund Persson, A. (517) 149)

Diastole; Prostaglandin; Vasodilatation; Nitric oxide (Kisch-Wedel, H. (517) 208)

Amitriptyline; Microdialysis; Adenosine uptake; Adenosine kinase; Adenosine deaminase (Sawynok, J. (518) 116)

Adenosine A₁ receptor

Inverse agonism; Constitutive activity; G14T mutant; "Locked-on" phenotype (de Ligt, R.A.F. (510) 1)

Adenosine A_{2A} antagonist

Parkinson's disease; Dopamine; 6-hydroxydopamine; L-DOPA (L-dihydroxy-phenylalanine) (Pinna, A. (512) 157)

Adenosine A_{2A} receptor

2-Alkynyladenosine derivative; Intraocular pressure; Outflow facility; K⁺ channel (Konno, T. (518) 203)

Caffeine; (Mouse) (El Yacoubi, M. (519) 290)

Adenosine agonist

Temazepam; Diazepam; Withdrawal sign (Listos, J. (523) 71)

Adenosine antagonist

Adenosine receptor; Adenosine/Dopamine interaction; Dopamine receptor; GABA transmission; Striatopallidal transmission (Floran, B. (520) 43)

Adenosine deaminase

Amitriptyline; Adenosine; Microdialysis; Adenosine uptake; Adenosine kinase (Sawynok, J. (518) 116)

Adenosine kinase

Amitriptyline; Adenosine; Microdialysis; Adenosine uptake; Adenosine deaminase (Sawynok, J. (518) 116)

Adenosine receptor

N⁶-Cyclopentyladenosine; Haematopoietic progenitor cell; 5-Fluorouracil; (Mouse) (Pospíšil, M. (507) 1)

Adenosine antagonist; Adenosine/Dopamine interaction; Dopamine receptor; GABA transmission; Striatopallidal transmission (Floran, B. (520) 43)

Adenosine uptake

NBTI (nitrobenzylthioinosine); NOP (nociceptin opioid peptide); Paracetamol; Autoradiography; Nociceptin (Godfrey, L. (508) 99)

Amitriptyline; Adenosine; Microdialysis; Adenosine kinase; Adenosine deaminase (Sawynok, J. (518) 116)

Adenosine/acetylcholine interaction

Caffeine; Oxotremorine-M; Turning behavior; Striatum (Núñez-Taltavull, J.F. (506) 71)

Adenosine/Dopamine interaction

Adenosine receptor; Adenosine antagonist; Dopamine receptor; GABA transmission; Striatopallidal transmission (Floran, B. (520) 43)

Adenylyl cyclase

Receptor signaling; G-protein; Pertussis toxin; Ligand attachment; Ligand dissociation (Sah, R. (525) 60)

β₃-adrenoceptor agonist

Adiponectin; Adiponectin receptor 1; Adiponectin receptor 2 (Oana, F. (518) 71)

Adhesion

Protocatechuic aldehyde; Endothelial cell; NF-κB (nuclear factor-κB); AP-1 (activator protein-1) (Zhou, Z. (513) 1)

Adhesion molecule

Prostaglandin; Monocyte (Takahashi, H.K. (512) 223)

T cell; Leukocyte; cGMP-dependent protein kinase; Tumor necrosis factor-α; E-selectin; ICAM-1 (intercellular adhesion molecule 1) (Wong, D. (514) 91)

Prostaglandin; Monocyte (Takahashi, H.K. (517) 252)

Adipocyte

Anandamide; PPARγ; 3T3-L1 (Bouaboula, M. (517) 174)

Adiponectin; Metformin; AMP activated protein kinase; Glucose; Diabetes (Huypens, P. (518) 90)

Adiponectin

Adiponectin receptor 1; Adiponectin receptor 2; β_3 -adrenoceptor agonist (Oana, F. (518) 71)

Metformin; AMP activated protein kinase; Glucose; Adipocyte; Diabetes (Huypens, P. (518) 90)

Adiponectin receptor 1

Adiponectin; Adiponectin receptor 2; β_3 -adrenoceptor agonist (Oana, F. (518) 71)

Adiponectin receptor 2

Adiponectin; Adiponectin receptor 1; β_3 -adrenoceptor agonist (Oana, F. (518) 71)

Adipose tissue

SSAO (Semicarbazide-sensitive amine oxidase); Monoamine oxidase; Diabetes; Insulin (Visentin, V. (522) 139)

Adjuvant-induced arthritis

p38; Tumor necrosis factor- α ; Interleukin-1; Collagen-induced arthritis (Wada, Y. (506) 285)

Cyclooxygenase-2; Non-steroidal anti-inflammatory drug; Celecoxib (Noguchi, M. (513) 229)

ADMA (Asymmetric dimethylarginine)

Captopril; Homocysteine; Endothelium-dependent relaxation; NO (Nitric oxide); (Rat) (Fu, Y.-F. (508) 167)

Adolescence

Opioid; Mu-opioid receptor (White, D.A. (528) 119)

Adrenal gland

Bombesin; Thromboxane A_2 ; Prostaglandin E_2 ; Noradrenaline; Sympathetic nerve (Yokotani, K. (512) 29)

Adrenergic downregulation

Phosphodiesterase inhibitor; cAMP; Myocardial contractility (Osadchii, O. (514) 201)

Adrenoceptor

Hypothyroidism; Blood pressure; Muscarinic receptor; Nitric oxide (NO) (Iwata, T. (507) 311)

Cardiomyopathy; Cholestasis; Endogenous opioid peptide; NO (Nitric oxide); Papillary muscle (Ebrahimi, F. (523) 93)

α_1 -adrenoceptor

Conotoxin ρ -TIA; Vas deferens; Spleen; Aorta (Lima, V. (508) 183)

Receptor phosphorylation; Protein kinase C; Protein phosphatase; Desensitization; Phosphatidylinositol 3-kinase (Alcántara-Hernández, R. (525) 18)

α_1 -Adrenoceptor

Carvedilol; Congestive heart failure; β -Adrenoceptor; Lusitropic; Inotropic (Qvigstad, E. (516) 51)

α_{1B} -adrenoceptor

Kidney; Nandrolone; MDCK-D1 (Lindblom, J. (527) 157)

α_{1B} -Adrenoceptor

α_1 -Adrenoceptor subtype; Rabbit aorta; α_1 -Adrenoceptor antagonist; α_{1B} -Adrenoceptor antagonist; (+)-Cyclazosin (Marucci, G. (522) 100)

α_2 -adrenoceptor

Ultrasonic vocalization; Clonidine; ST-91 (2-[2,6-diethylphenylamino]-2-imidazole) (Krall, C.M. (517) 200)

ω -conotoxin CVID; Dexmedetomidine; Mechanical hypersensitivity; N-type Ca^{2+} channel (Blake, D.W. (506) 221)

α_2 -Adrenoceptor

Cholestasis; Mesenteric vascular bed; Clonidine; Nitric oxide; Opioid (Borhani, A.A. (514) 183)

Firing activity; Antidepressant; 5-HT receptor; Idazoxan; Noradrenaline (Grandoso, L. (517) 51)

Imidazoline₁-binding site; Body temperature (Cambridge, N. (519) 86)

5-HT₃ receptor; MD-354 (*m*-chlorophenylguanidine); Antinociception; In vivo model (Dukat, M. (528) 59)

α_{2A} -adrenoceptor

D-amphetamine; Atipamezole; Locomotor activity; Behavioural sensitization; Knock-out (mouse) (Juhila, J. (517) 74)

β -adrenoceptor

Contractility; Isoprenaline; Cardiac myocyte (Stones, R. (512) 117)

Bladder smooth muscle; cAMP; Ca^{2+} -activated K^+ channel (Uchida, H. (518) 195)

Angiotensin-converting enzyme; Myocardial hypertrophy; Renin-angiotensin system; Isoproterenol (Oliveira, E.M. (520) 135)

β -Adrenoceptor

β -Adrenoceptor antagonist; Hypertension; D/L-Nebivolol; NO (nitric oxide); Vasodilation (Sacco, G. (511) 167)

Carvedilol; Congestive heart failure; α_1 -Adrenoceptor; Lusitropic; Inotropic (Qvigstad, E. (516) 51)

GF 109203X; Airway smooth muscle; Protein kinase C; Desensitization (Boterman, M. (516) 86)

β_1 -Adrenoceptor

β_4 -Adrenoceptor; Sinoaortic denervation; CGP12177 (Santos, I.N. (513) 109)

β_3 -adrenoceptor

AJ-9677; Energy expenditure; Respiratory quotient (Sugimoto, T. (519) 135)

β_4 -Adrenoceptor

β_1 -Adrenoceptor; Sinoaortic denervation; CGP12177 (Santos, I.N. (513) 109)

α_1 -Adrenoceptor antagonist

α_1 -Adrenoceptor subtype; α_{1B} -Adrenoceptor; Rabbit aorta; α_{1B} -Adrenoceptor antagonist; (+)-Cyclazosin (Marucci, G. (522) 100)

α_{1B} -Adrenoceptor antagonist

α_1 -Adrenoceptor subtype; α_{1B} -Adrenoceptor; Rabbit aorta; α_1 -Adrenoceptor antagonist; (+)-Cyclazosin (Marucci, G. (522) 100)

β -Adrenoceptor antagonist

β -Adrenoceptor; Hypertension; D/L-Nebivolol; NO (nitric oxide); Vasodilation (Sacco, G. (511) 167)

Nitregic nerve; Nitric oxide; Sodium channel activator; *Tityus serrulatus* venom (Teixeira, C.E. (519) 146)

β -adrenoceptor down-regulation

Depression; Acetylcholine nicotinic receptor; Antidepressant; Imipramine; Dopamine-mimetic-induced locomotor stimulation (Popik, P. (515) 128)

 α_1 -Adrenoceptor subtype

α_{1B} -Adrenoceptor; Rabbit aorta; α_1 -Adrenoceptor antagonist; α_{1B} -Adrenoceptor antagonist; (+)-Cyclazosin (Marucci, G. (522) 100)

 α_1 -adrenoceptor subtypes

Estrogen receptor subtypes; Pregnant human uterus (Ducza, E. (528) 183)

 α_2 -Adrenoceptor subtype

Gastric mucosal damage; Gastric emptying and motility (Fülöp, K. (528) 150)

 β -adrenoceptors

Peroxyntirite; Redox; Nitration; Vasodilation; Heart rate; (Rat) (Lewis, S.J. (518) 187)

Adrenomedullin

Gastric damage; Hepatocyte growth factor; COX-2 (cyclooxygenase-2); CGRP (calcitonin gene-related peptide) receptor (Cantarella, G. (518) 221)

 α -adrenoreceptor

Neuropathic pain; Cold allodynia; Phentolamine; Prazosin; Yohimbine (Kim, S.K. (523) 64)

Adriamycin

17- β -estradiol; Cardiomyopathy; Oxidative stress; Ovariectomy (Muñoz-Castañeda, J.R. (523) 86)

Adventitia

Remodeling; Extracellular matrix (Tsuruda, T. (508) 201)

Affiliative behaviour

Aggression; Antidepressant; Negative affect; Impulse regulation; Personality trait; Dominance (Bond, A.J. (526) 218)

Aggression

Dexmedetomidine; Atipamezole; Animal behaviour; Social conflict (Votava, M. (523) 79)

Serotonin; Defense; Frustration; Alcohol; Dopamine; GABA; Neuroleptics; Benzodiazepines (de Almeida, R.M.M. (526) 51)

Abnormal; Glucocorticoid (Haller, J. (526) 89)

Resident–intruder; Serotonin; 5-HT_{1A}; 5-HT_{1B}; (Rat) (de Boer, S.F. (526) 125)

Quantitative trait locus; Steroid sulfatase; Pseudo-autosomal region; Y-chromosome (Roubertoux, P.L. (526) 172)

Serotonin; 5-HT_{1B} receptor; 5-HT transporter; 5-HT_{1A} receptor (Olivier, B. (526) 207)

Antidepressant; Negative affect; Impulse regulation; Personality trait; Dominance; Affiliative behaviour (Bond, A.J. (526) 218)

Sexual behaviour; Neural mechanism; c-Fos; Serotonin; Pharmacology; Male (Rat) (Veening, J.G. (526) 226)

Genetics; Serotonin transporter; Monoamine oxidase A; 5-hydroxyindoleacetic acid; Microdialysis; (Monkey); (Mice); (Rat) (Francesco Ferrari, P. (526) 259)

Aging

Vasoactive agent; Coronary circulation; Endothelial function; Nitric oxide; Prostaglandin (Ishihata, A. (523) 119)

Agmatine

Morphine; Conditioned place preference; Imidazoline receptor (Wei, X.-L. (515) 99)

Agonist

JTE-907; Cannabinoid CB₂ receptor; Inverse agonist; Ear swelling (Ueda, Y. (520) 164)

Agonistic

Corticosterone; Cortisol; Serotonin; Social; Stress (Summers, C.H. (526) 21)

Agonistic behaviour

Animal model of depression; Chronic antidepressant treatment; Social hierarchy; Resident–intruder; Suicide ideation (Mitchell, P.J. (526) 147)

Air pouch model

Cyclooxygenase-2; Inflammation; Carrageenan-induced paw edema; THP-1 cell line (Yin, L.-L. (520) 172)

Airway edema

Bronchial asthma; Bronchoconstriction; Lysophosphatidylcholine; (Guinea pig) (Nobata, K. (520) 150)

Airway inflammation

Asthma; c-Jun NH₂-terminal kinase; Airway smooth muscle; Bronchial responsiveness (Nath, P. (506) 273)

Nitric oxide; Eosinophil; Asthma; Hyperreactivity (Landgraf, R.G. (518) 212)

IL-4; IL-6; pH; Asthma (Carpagnano, G.E. (519) 175)

Airway mucus

Leukotriene receptor antagonist; Secretion; Asthma; COPD (chronic obstructive pulmonary disease) (Schmidt, R. (527) 150)

Airway smooth muscle

Asthma; c-Jun NH₂-terminal kinase; Airway inflammation; Bronchial responsiveness (Nath, P. (506) 273)

GF 109203X; Protein kinase C; Desensitization; β -Adrenoceptor (Boterman, M. (516) 86)

Airway smooth muscle cells

LTD₄; ASK1; AP-1; Remodeling (Kumasawa, F. (517) 11)

AJ-9677

β_3 -adrenoceptor; Energy expenditure; Respiratory quotient (Sugimoto, T. (519) 135)

Albumin

Reticular stress; Apoptosis; Mitochondria; Neuroprotection (Gallego-Sandín, S. (520) 1)

Alcohol

Aggression; Serotonin; Defense; Frustration; Dopamine; GABA; Neuroleptics; Benzodiazepines (de Almeida, R.M.M. (526) 51)

Cocaine; Drug addiction; Nicotine; Opiates; Pharmacotherapy (Heidbreder, C. (526) 101)

Relapse prevention; Addiction; Treatment; Pharmacotherapy (Kiefer, F. (526) 163)

Aph-1b; APO-SUS; APO-UNSUS; Cocaine; γ -secretase; Self-administration; Tyrosine hydroxylase (Ellenbroek, B.A. (526) 251)

Metabotropic glutamate receptor; Glutamate; Reinstatement; Self-administration; Conditioning (Bäckström, P. (528) 110)

Alcohol dehydrogenase

Acetylsalicylic acid; *p*-Hydroxyacetophenone (Negoro, M. (523) 25)

Alcohol dependence

Serotonin transporter; Genetics; Addiction; Environment; Plasticity; Imaging (Lesch, K.-P. (526) 113)

Alcohol drinking behavior

Positive allosteric modulation; GABA_B receptor; CGP7930; GS39783; Baclofen; Sardinian alcohol-preferring (sP) (Rat) (Orrù, A. (525) 105)

Aldosterone

Urinary bladder; Epithelial Na⁺ channel (Burton, T.J. (510) 181)

Alemtuzumab

Chronic lymphocytic leukemia; Apoptosis (Nüchel, H. (514) 217)

Alko alcohol (AA) rat

Ethanol preference; Desoxyepine; Galanthamine (Doetkotte, R. (522) 72)

2-Alkynyladenosine derivative

Intraocular pressure; Outflow facility; Adenosine A_{2A} receptor; K⁺ channel (Konno, T. (518) 203)

Allergic airway response

Capsazepine; Ovalbumin; TRPV1 (transient receptor potential vanilloid 1) (van den Worm, E. (518) 77)

Allergy

LASSBio 552; Tetrazolephthalimide derivative; Leukotriene; Eosinophil (Neves, J.S. (511) 219)

Allodynia

MPEP; MTEP; Glutamate; Hyperalgesia; Modality (Zhu, C.Z. (506) 107)

Nicotinic acetylcholine receptor; Cancer pain; Neuropathic pain; Analgesia; Vincristine (Lynch III, J.J. (509) 43)

N/OFQ (nociceptin/orphanin FQ); NOP receptor antagonist; JTC-801; Hyperalgesia (Tamai, H. (510) 223)

Gaboxadol; GABA_A receptor; Hyperalgesia; Isoguvacine; Zolpidem (Rode, F. (516) 131)

NMDA receptor antagonist; Memantine; Neramexane; Morphine analgesia; Clonidine; Rat sciatic nerve; Experimental nerve injury (Malyshkin, A.A. (519) 80)

Neuropathic pain; Formalin test; Antinociception; Neurometer; (Rat) (Akada, Y. (523) 46)

Allopregnanolone (3 α -hydroxy-5 α -pregnan-20-one)

Isoallopregnanolone (3 β -hydroxy-5 α -pregnan-20-one); Neurosteroid antagonism; Anaesthesia threshold; Male; (Rat) (Bäckström, T. (512) 15)

Allostasis

Drug addiction; Habit; Compulsion; Impulsivity; Sensitization; Tolerance; Prefrontal cortex; Orbitofrontal cortex; Dorsal striatum; Nucleus accumbens (Vanderschuren, L.J.M.J. (526) 77)

Allosteric modulation

5-HT₃ serotonin receptor binding; NG 108-15 cell; Slope of displacement; Verapamil; Ifenprodil (Maksay, G. (514) 17)

Internalization; PD 81,723; SCH-202676; Human adenosine A₁ receptor; YFP (Klaasse, E.C. (522) 1)

Alpha-amino-3-hydroxy-5-methyl-4-isoxazolepropionic acid (AMPA)

5-HT_{2A}; Endocannabinoid; Kainate; Wet dog shake; (Rat) (Gorzalka, B.B. (516) 28)

Alveolar bone loss

Free radical; Reactive oxygen specie; Periodontal disease (Di Paola, R. (516) 151)

Alvimopan

N-methylnaltrexone; Opioid receptor; Opioid antagonist; Kinetics (Cassel, J.A. (520) 29)

Alzheimer disease

Calyculin A; Tau; Phosphorylation; Melatonin (Li, X.-C. (510) 25)

Alzheimer's disease

Cholinesterase inhibitor; Donepezil (E2020); Na⁺ channel; K⁺ channel (Yu, B. (508) 15)

Voltage-clamp; Acetylcholine binding protein; α 7 nicotinic receptor (Papke, R.L. (524) 11)

Acetylcholinesterase inhibitor; Nicotinic acetylcholine receptor; Up-regulation; Neuroprotection (Kume, T. (527) 77)

Amentoflavone

GABA_A receptor; Benzodiazepine; Biflavonoid (Hansen, R.S. (519) 199)

D-Amino acid oxidase

Morphine; NMDA (*N*-methyl-D-aspartate) receptor; D-Serine; Serine racemase (Yoshikawa, M. (525) 94)

γ -Aminobutyric acid

Transmembrane domain; Ethyl 2-(4-bromophenyl)-1-(2,4-dichlorophenyl)-1*H*-4-imidazolecarboxylate (Mascia, M.P. (516) 204)

17 β -aminoestrogen

Estradiol; Uterotrophic effect; Estrogenic effect (Lemini, C. (510) 235)

17 β -Aminoestrogen

Estradiol; Anticoagulant effect; Thrombogenic effect (Lemini, C. (510) 229)

2-Amino-3-ethoxycarbonyl-*N*-methylbenz[indole-4,9-dione

Benz[*f*]indole-4,9-dione; Extracellular matrix; Matrix metalloproteinase; Tissue inhibitor of metalloproteinase; Membrane type 1-matrix metalloproteinase (Park, H.J. (527) 31)

Aminoglutethimide

Spironolactone; Carbamazepine; Diphenylhydantoin; Amygdala-kindled seizures (Borowicz, K.K. (516) 212)

Aminoguanidine

Cyclosporin A; Morphine; L-NAME (*N*^G-nitro-L-arginine methyl ester); Nitric oxide; Neuroimmunophilin ligands; Conditioned place preference (Langroudi, R.M. (507) 107)

Nitric oxide; *Tumor necrosis factor alpha*; Superoxide; Endotoxin (Lin, H.-C. (508) 249)

Aminooxyacetic acid

N-Methyl-D-aspartate receptor; Microdialysis; D-Serine; Serine racemase (Hashimoto, A. (525) 91)

4-aminopyridine

Tetraethylammonium; Gastrointestinal motility; Gastric acid secretion (Dong, D.-L. (509) 179)

Amitriptyline

Adenosine; Microdialysis; Adenosine uptake; Adenosine kinase; Adenosine deaminase (Sawynok, J. (518) 116)

AMP activated protein kinase

Adiponectin; Metformin; Glucose; Adipocyte; Diabetes (Huypens, P. (518) 90)

AMPA receptor antagonist

Newborn mouse; Stroke; Interleukin-1beta; Motoneuron; GYKI 52466; GYKI 53405; EGIS-8332; EGIS-10608 (Gressens, P. (519) 58)

(+)-Amphetamine

(+)-Methamphetamine; Monoclonal antibody; (Rat) (Byrnes-Blake, K.A. (521) 86)

D-amphetamine

α_2A -adrenoceptor; Atipamezole; Locomotor activity; Behavioural sensitization; Knock-out (mouse) (Juhila, J. (517) 74)

Amygdala

Corticotropin releasing factor; Stress; Behavior; Antagonist; (Rat) (Gehlert, D.R. (509) 145)

5-HT₇ (5-hydroxytryptamine₇) receptors; Exploratory behavior; Hole-board test; Monoamines; (Mouse) (Takeda, H. (518) 30)

Addiction; Cocaine; Conditioning; Cue; Reinstatement; Relapse (See, R.E. (526) 140)

Second-order schedules of reinforcement; Cocaine; Nucleus accumbens; Dopamine; Glutamate (Di Ciano, P. (526) 186)

Corticosterone; Endocannabinoid; 2-arachidonylglycerol (Hill, M.N. (528) 99)

Amygdala-kindled seizures

Aminoglutethimide; Spirolactone; Carbamazepine; Diphenylhydantoin (Borowicz, K.K. (516) 212)

 β -Amyloid peptide-(25–35)

Baicalein; Melatonin; Anti-amnesic effect; Passive avoidance test (Wang, S.-Y. (506) 55)

Amyloid precursor protein

Tumor growth; Angiogenesis; Secretase; Presenilin (Paris, D. (514) 1)

 β -Amyloid protein

5-HT₃ receptor antagonist; MDL72222; Y25130; 5-HT₃ receptor; Neurotoxicity; Cortical neuron; Neuroprotection (Ju Yeon Ban (520) 12)

 α -Amyrin

Skin inflammation; *Protium kleinii*; Burseraceae; Triterpenes; Ear oedema (Otuki, M.F. (507) 253)

Anaesthesia threshold

Allopregnanolone (3 α -hydroxy-5 α -pregnan-20-one); Isoallopregnanolone (3 β -hydroxy-5 α -pregnan-20-one); Neurosteroid antagonism; Male; (Rat) (Bäckström, T. (512) 15)

Analgesia

Opiate (Pradhan, A.A.A. (506) 229)

N/OFQ (nociceptin/orphanin FQ); R-K, paracetamol; UFP-101; Hot plate test (Sandrini, M. (507) 43)

Neuropeptide FF; Receptor; Morphine; (Mouse) (Quelven, I. (508) 107)

Nicotinic acetylcholine receptor; Cancer pain; Neuropathic pain; Allodynia; Vincristine (Lynch III, J.J. (509) 43)

Acute pain; Inflammation; Spinal cord; 5-Hydroxytryptamine_{2A} receptor antagonist (Nishiyama, T. (516) 18)

Nicotine; Nicotinic antagonists; Drug discrimination (Damaj, M.I. (521) 43)

Analgesic

Neuropathic pain; Inflammatory pain; Nociception; (Rat, Mouse) (Christoph, T. (507) 87)

Analgesics

Addiction; Antidepressant; Drug abuse; Operant behaviour; Opioid; Reinforcement (Magalas, Z. (528) 103)

Anandamide

Cannabinoids; THC (Tetrahydrocannabinol); Aorta; Endothelium; Vanilloid (O'Sullivan, S.E. (507) 211)

Cannabinoid; Cross-tolerance; Methanandamide; Tetrahydrocannabinol; Tolerance (Wiley, J.L. (510) 59)

PPAR γ ; 3T3-L1; Adipocyte (Bouaboula, M. (517) 174)

Angiogenesis

Endothelial cell; Free radical; Nitric oxide; Endothelial nitric oxide synthase (Polytarchou, C. (510) 31)

Diabetes; VEGF (vascular endothelial cell growth factor); Calcium dobesilate; (Rat) (Lameynardie, S. (510) 149)

Endothelial cell; Growth; Migration; Tube formation; MAP kinase (Tsuneki, H. (512) 105)

Tumor growth; Secretase; Amyloid precursor protein; Presenilin (Paris, D. (514) 1)

Eicosanoid; Ovary (Sakurai, T. (516) 158)

5-LOX; Colon cancer; Cigarette smoke; MMP; VEGF1 (Ye, Y.N. (519) 52)

Angiogenesis inhibitor

Hypericin; St. John's wort; Bovine endothelial cells (Martínez-Poveda, B. (516) 97)

Angioplasty

Rho GTP-binding protein; Trepidil; Protein-serine-threonine kinase; Forskolin (Ishikura, K. (515) 28)

Angiotensin

Diabetic retinopathy; Electroretinogram; Olmesartan medoxomil; Oxygen induced retinopathy (Nakamura, H. (512) 239)

Angiotensin AT₁ receptor

CHO-K1; Angiotensin II; Internalization; Receptor reserve (Le, M.T. (513) 35)

Angiotensin AT₁ receptor antagonist

Diabetes mellitus; Endothelial dysfunction; NAD(P)H oxidase; Oxygen radical; Beta 1-adrenoceptor antagonist (Dorenkamp, M. (520) 179)

Angiotensinogen mRNA; Brain renin–angiotensin system; Losartan; Irbesartan (Pediconi, D. (528) 79)

Angiotensin converting enzyme inhibition

Hypertension; Diabetes; Vasopeptidase inhibition; Cardiomyopathy (Grönholm, T. (519) 267)

Angiotensin I-converting enzyme inhibitor

Angiotensin II type 1 receptor blocker; Calpain; Dystrophin glycoprotein complex; Hypertrophy; Myocardial infarction (Takahashi, M. (522) 84)

Angiotensin II

Rho-kinase; Cardiac hypertrophy; Perivascular fibrosis; Cardiac dysfunction; Apolipoprotein E knockout mice (Wang, Y.-X. (512) 215)

CHO-K1; Angiotensin AT₁ receptor; Internalization; Receptor reserve (Le, M.T. (513) 35)

Endothelin-1; Resveratrol; Smooth muscle cell; Reactive oxygen species; ERK (extracellular signal-regulated kinase) (Chao, H.-H. (515) 1)

Eicosanoid; Nitric oxide; Cyclooxygenase; Cytochrome *P*₄₅₀ epoxigenase; TXA₂/PGH₂ receptor (Jerez, S. (520) 127)

Angiotensin II type 1 receptor blocker

Angiotensin I-converting enzyme inhibitor; Calpain; Dystrophin glycoprotein complex; Hypertrophy; Myocardial infarction (Takahashi, M. (522) 84)

Angiotensin II-receptor blocker

Hypoxic cor pulmonale; Olmesartan medoxomil; Hypoxia; Remodeling; Collagen; Brain natriuretic peptide; TGF- β (Nakamoto, T. (528) 43)

Angiotensin-converting enzyme

Myocardial hypertrophy; Renin–angiotensin system; Isoproterenol; β -adrenoceptor (Oliveira, E.M. (520) 135)

Angiotensin-converting enzyme inhibition

Myocardial infarction; Diuretic; Pharmacokinetics (Westendorp, B. (527) 141)

Angiotensin-converting enzyme inhibitor

Endothelial dysfunction; NO (nitric oxide); Hypertension; Bradykinin; AT₁-receptor antagonist (De Gennaro Colonna, V. (516) 253)

Kinin; Bradykinin; Insulin; Glucose; Rat uterus (Damas, J. (525) 154)

Angiotensinogen mRNA

Brain renin–angiotensin system; Angiotensin AT₁ receptor antagonist; Losartan; Irbesartan (Pediconi, D. (528) 79)

Animal behaviour

Dexmedetomidine; Atipamezole; Social conflict; Aggression (Votava, M. (523) 79)

Animal model

Olopatadine hydrochloride; Histamine H₁ receptor antagonist; Scratching; Atopic dermatitis (Tamura, T. (524) 149)

Animal model of depression

Chronic antidepressant treatment; Agonistic behaviour; Social hierarchy; Resident–intruder; Suicide ideation (Mitchell, P.J. (526) 147)

Anion exchanger

Urinary excretion; Phenolsulfonphthalein; p-Aminohippurate; Brush-border membrane (Itagaki, S. (518) 83)

Antagonism

Nicotine discrimination; Ethanol; Blood ethanol level (Korkosz, A. (512) 165)

Antagonist

Dmt (2,6-dimethyl-L-tyrosine); Endomorphin; Antinociception; Spinal; Supraspinal (Jinsmaa, Y. (509) 37)

Corticotropin releasing factor; Stress; Behavior; Amygdala; (Rat) (Gehlert, D.R. (509) 145)

Anti-amnesic effect

Baicalein; Melatonin; β -Amyloid peptide-(25–35); Passive avoidance test (Wang, S.-Y. (506) 55)

Antiarrhythmia

KR-32570; Cardioprotection; Na⁺/H⁺ exchanger (Lee, B.H. (523) 101)

Antiarrhythmic action

Terikalant; Cellular electrophysiology; Multichannel block (Biliczki, P. (510) 161)

Anti-asmatic properties

Isoquercitrin; Rutin; Asthma; Carbachol; *Argemone platyceras*; Antigen challenge; Anti-leukotriene action (Fernandez, J. (522) 108)

Anticholinergic

Antihistamine; Carbachol; Histamine H₁ antagonist; Acetylcholine (Orzechowski, R.F. (506) 257)

Anticoagulant effect

17 β -Aminoestrogen; Estradiol; Thrombogenic effect (Lemini, C. (510) 229)

Anticonvulsant

Acetylcholinesterase; Epileptiform activity; Hippocampal slice; Organophosphate; Soman (Harrison, P.K. (518) 123)

Anticonvulsant effect

Pralidoxime derivative; Sedative effect; Soman poisoning; Acetylcholine; Non-reactivation effect (Loke, W.-K. (521) 59)

Antidepressant

Selective serotonin reuptake inhibitor; Ejaculation; c-fos; 5-HT_{1A} (de Jong, T.R. (509) 49)

Depression; Acetylcholine nicotinic receptor; Imipramine; Dopamine-mimetic-induced locomotor stimulation; β -adrenoceptor down-regulation (Popik, P. (515) 128)

Firing activity; 5-HT receptor; Idazoxan; Noradrenaline; α_2 -Adrenoceptor (Grandoso, L. (517) 51)

Tail suspension test; Sulpiride; Fluvoxamine; WAY100635 (Ago, Y. (520) 86)

Aggression; Negative affect; Impulse regulation; Personality trait; Dominance; Affiliative behaviour (Bond, A.J. (526) 218)

Addiction; Analgesics; Drug abuse; Operant behaviour; Opioid; Reinforcement (Magalas, Z. (528) 103)

Antidepressant-like effect

Curcumin; Forced swimming; Tail suspension; Locomotor activity; Monoamine; Monoamine oxidase; Mice (Xu, Y. (518) 40)

Anti-emetic

Cisplatin; Nausea; Emesis; 5-HT₃ receptor; Tachykinin NK₁ receptor (Lau, A.H.Y. (506) 241)

Antigen challenge

Isoquercitrin; Rutin; Asthma; Carbachol; *Argemone platyceras*; Anti-asmatic properties; Anti-leukotriene action (Fernandez, J. (522) 108)

Antihistamine

Anticholinergic; Carbachol; Histamine H₁ antagonist; Acetylcholine (Orzechowski, R.F. (506) 257)

Antihypertensive

GABA (γ -aminobutyric acid); Kidney; Spontaneously hypertensive rat; Renal denervation; Renin (Hayakawa, K. (524) 120)

Anti-inflammation

Aromatic diamine compound; Inducible nitric oxide synthase; Nuclear factor- κ B; Macrophages (Shin, H.-M. (521) 1)

Anti-inflammatory

Brazilin; NO (nitric oxide); iNOS (inducible nitric oxide synthase); NF- κ B (nuclear factor- κ B); AP-1 (activator protein-1) (Bae, I.-K. (513) 237)

Anti-leukotriene action

Isoquercitrin; Rutin; Asthma; Carbachol; *Argemone platyceras*; Antigen challenge; Anti-asmatic properties (Fernandez, J. (522) 108)

Antinociception

Tachykinin NK₁ receptor antagonist; Substance P; Spinal cord; Peripheral inflammation; 4 β -Phorbol-12-myristate-13-acetate (Tsuchiya, M. (507) 29)

Guanine nucleotide binding protein; G protein γ_2 subunit; Opioid receptor agonist; Cannabinoid receptor agonist; Clonidine (Varga, E.V. (508) 93)

Dmt (2,6-dimethyl-L-tyrosine); Endomorphin; Spinal; Supraspinal; Antagonist (Jinsmaa, Y. (509) 37)

Efficacy; Kappa-opioid; Delayed antagonism (Husbands, S.M. (509) 117)

Tramadol; Serotonin; Selective 5-HT_{1A}/5-HT_{1B} receptor antagonist; Hot plate; (Mice) (Rojas-Corralles, M.O. (511) 21)

Neuropathic pain; Allodynia; Formalin test; Neurometer; (Rat) (Akada, Y. (523) 46)

Oxycodone; Diabetes; κ -Opioid receptor; Hyperalgesia (Nozaki, C. (524) 75)

Fentanyl; Buprenorphine; Δ^9 -THC; Transdermal; (Guinea pig) (Cichewicz, D.L. (525) 74)

Bradykinin B₁ receptor; Spinal cord; (Rat) (Conley, R.K. (527) 44)

α_2 -Adrenoceptor; 5-HT₃ receptor; MD-354 (*m*-chlorophenylguanidine); In vivo model (Dukat, M. (528) 59)

Antinociceptive

Cannabinoid CB₁ receptor; GABA_B receptor; Spinal cord; (Rat) (Naderi, N. (514) 159)

Antinociceptive effect

CHF3381; NMDA receptor antagonist; MAO-A inhibitor; Capsaicin (Bassani, F. (519) 231)

Antioesity drug

ABC transporter; Cardiovascular disease; Cardiovascular drug; Drug-metabolizing enzyme; Drug target; Inflammation; Nutrigenetics; Nutrigenomics; Obesity; Pharmacodynamic; Pharmacogenetic; Statin (Siest, G. (527) 1)

Antioxidant

Gentisic acid; Aspirin; LDL oxidation (Ashidate, K. (513) 173)

Phenylethyl isothiocyanate; Apoptosis; Caspase-3 inhibitor; PLC/PRF/5 cell (Wu, S.-J. (518) 96)

Inducible nitric oxide synthase; Nitrotyrosine; Isoprostane; Cardiac contractility (Cheng, X. (519) 118)

Edaravone; Cochlear protection; Reactive oxygen species; Acoustic trauma; 4-HNE; (4-hydroxy-2-nonenal) (Tanaka, K. (522) 116)

Resvaratrol; Rat liver; Mitochondria; Permeability transition pore; Reactive oxygen species; Ischemia–reperfusion (Plin, C. (528) 162)

Antioxidant defense system

Ozone; Diabetes (and its complications); Diabetic foot; Oxidative stress (Martínez-Sánchez, G. (523) 151)

Antioxidant enzyme

Acetylsalicylic acid; Vitamin C; Proinflammatory cytokine (Konturek, P.C. (506) 169)

Tectorigenin; Reactive oxygen species (Kang, K.A. (519) 16)

Antiplatelet agent

Thrombin; Thromboxane A₂ (Wu, C.-C. (527) 37)

Antiproliferation

Cdc25B; HTS (high throughput screening); Selectivity; MCF-7; Cdk1 (cell-cycle-dependent kinase 1) (Kim, K.-R. (528) 37)

Antipsychotic

Cannabidiol; Cannabinoid; Psychotomimetic; Locomotion; Catalepsy (Moreira, F.A. (512) 199)

Aripiprazole; Partial agonist; Dopamine D₂ receptor; Receptor density; Schizophrenia (Tadori, Y. (515) 10)

Glycine_B site; *N*-methyl-D-aspartate receptors; Dopamine; Schizophrenia (Bennett, S. (527) 52)

Antipsychotic drug

Seroquel; Dopamine D₂ autoreceptor; Extracellular recording; In vitro slice preparation (Werkman, T.R. (506) 47)

Substantia nigra; Ventral tegmental area; Serotonin; Extracellular recording (Olijslagers, J.E. (520) 77)

Antipyrene clearance

Endotoxin; CYP3A2; CYP2C11; P-glycoprotein; (Rat) (Ueyama, J. (510) 127)

Antisense oligonucleotide

Food intake; Melanocortin; Small interfering RNA; (Rat) (Senn, C. (522) 30)

Anti-TNF- α antibody

Y-40138; TNF- α ; IFN- γ ; IL-4; Chemokine; Pentoxifylline; Concanavalin A; Hepatitis (Fukuda, T. (523) 137)

Antitussive effect

Glycyrrhizae radix; Bakumondo-to (Mai-men-dong-tang); Liquiritin apioside; Liquiritin; Liquiritigenin (Kamei, J. (507) 163)

Anti-ulcer drug

Astaxanthin; Gastric antral ulceration; Orogastric administration; *Xanthophyllomyces dendrorhous* (Kim, J.-H. (514) 53)

Anxiety

Grooming behaviour; Mice; GABA; Diazepam; Pentylentetrazole (Kalueff, A.V. (508) 147)

MM-77; 5-HT_{1A} receptor; Stress; (Mouse) (Alfredo, B.-A. (508) 155)

Serotonin; 5-HT_{1A} receptor agonist; 5-HT_{2A} receptor antagonist; 5-HT₃ receptor antagonist (Delgado, M. (511) 9)

Group I mGlu receptor; Plus maze; Fear potentiated startle; Contextual fear conditioning; Geller–Seifter test (Pietraszek, M. (514) 25)

Light–dark box; Nicotine; Startle; Withdrawal; Prepulse inhibition; (Mouse) (Jonkman, S. (516) 40)

Dopamine D1/5 receptor; Dopamine D2 receptor; Conditioned fear (Inoue, T. (519) 253)

Anxiolytic

5-HT_{1A} receptor; Stress; Blood pressure; Heart rate; Strain difference (van den Buuse, M. (507) 187)

Aorta

Cannabinoids; Anandamide; THC (Tetrahydrocannabinol); Endothelium; Vanilloid (O'Sullivan, S.E. (507) 211)

α_1 -adrenoceptor; Conotoxin p-TIA; Vas deferens; Spleen (Lima, V. (508) 183)

AP-1

LT_{D4}; ASK1; Airway smooth muscle cells; Remodeling (Kumasawa, F. (517) 11)

AP-1 (activator protein-1)

Protocatechuic aldehyde; Endothelial cell; Adhesion; NF- κ B (nuclear factor- κ B) (Zhou, Z. (513) 1)

Brazilin; NO (nitric oxide); iNOS (inducible nitric oxide synthase); NF- κ B (nuclear factor- κ B); Anti-inflammatory (Bae, I.-K. (513) 237)

Apamin

Lumiracoxib; K⁺ channel; NO-cyclic GMP pathway; Charybdotoxin; Margatoxin; Serotonergic system; Opioid receptor (Lozano-Cuenca, J. (513) 81)

Aph-1b

Alcohol; APO-SUS; APO-UNSUS; Cocaine; γ -secretase; Self-administration; Tyrosine hydroxylase (Ellenbroek, B.A. (526) 251)

Apolipoprotein E knockout mice

Rho-kinase; Angiotensin II; Cardiac hypertrophy; Perivascular fibrosis; Cardiac dysfunction (Wang, Y.-X. (512) 215)

Apomorphine

Domperidone; Nausea; Emesis; Dopamine (Lau, A.H.Y. (516) 247)

Apoptosis

Stroke; Neuroprotection; Thiobarbituric acid reacting substance; Oxygen radical (Feng, Y. (507) 77)

Satratoxin H; Reactive oxygen species; Glutathione; *N*-Acetyl-L-cysteine; Mitogen-activated protein kinase (Nusuetrong, P. (507) 239)

Ethanol; Acetaldehyde; Hepatocyte; p42/44 MAPK; JNK (Lee, Y.J. (508) 31)

Luteolin; Human lung squamous carcinoma cell line CH27; Cell cycle; Comet assay; DNA repair enzyme (Leung, H.W.-C. (508) 77)

Luteolin; Caspase; Mitochondria; Bcl-2; Bcl-X_L; Bad; Bax; Cleavage (Cheng, A.-C. (509) 1)

Neutrophils; Necrotic morphological change; IgG; Kawasaki disease (Sugita, K. (513) 141)

Embryonic stem cells; Directional differentiation; Embryoid body; Cardiomycocyte; Icarin; Sarcomere; Cell cycle; p53 (Zhu, D. (514) 99)

Chronic lymphocytic leukemia; Alemtuzumab (Nückel, H. (514) 217)

TRF1; TRF2; Reactive oxygen species; Arsenic trioxide; Telomeric state (Zhang, Y. (516) 1)

Edaravone; Free radical scavenger; Focal ischemia; Neuroprotection (Amemiya, S. (516) 125)

Necrosis; Mitochondria; Calcium ionophore; Clonazepam; Bcl-2 (Hama-hata, K. (516) 187)

Astrocytoma; Platinum; Cancer (Marković, M. (517) 28)

Glycolysis; 6-phosphofructo-2-kinase/fructose-2,6-bisphosphatase; Fructose 2,6-bisphosphate; Pentose phosphate pathway; Aspirin; Glutathione peroxidase; Glutathione; Nuclear factor kappa B (Cuesta, E. (517) 158)

Phenylethyl isothiocyanate; Antioxidant; Caspase-3 inhibitor; PLC/PRF/5 cell (Wu, S.-J. (518) 96)

Quinapril; Atorvastatin; Confocal microscopy; Hypertension; Morphometry; Vascular reactivity (Yang, L. (518) 145)

Permeability transition; Neuroprotection; Mitochondrion (Fuks, B. (519) 24)

Reticular stress; Mitochondria; Albumin; Neuroprotection (Gallego-Sandín, S. (520) 1)

Goniotalamin; Redox status; cdc25C; MDA-MB-231 cell (Chen, W.-Y. (522) 20)

Sampangine; Reactive oxygen species; Plant alkaloid; Mitochondria; Caspase (Kluza, J. (525) 32)

Manganese(II); JNK (Jun N-terminal kinase); p38 MAPK (mitogen-activated protein kinase); c-Jun; p53; p21^{WAF1/CIP1} (Suzuki, T. (525) 48)

APO-SUS

Alcohol; *Aph-1b*; APO-UNSUS; Cocaine; γ -secretase; Self-administration; Tyrosine hydroxylase (Ellenbroek, B.A. (526) 251)

APO-UNSUS

Alcohol; *Aph-1b*; APO-SUS; Cocaine; γ -secretase; Self-administration; Tyrosine hydroxylase (Ellenbroek, B.A. (526) 251)

Appetite suppression

C75; Fatty acid synthase; Obesity (Rohrbach, K.W. (511) 31)

Aquaretic effect

Conivaptan hydrochloride; Myocardial infarction; Vasopressin; Vasopressin V_{1A} receptor; Vasopressin V₂ receptor; Hemodynamics (Wada, K.-i. (507) 145)

2-arachidonylglycerol

Corticosterone; Amygdala; Endocannabinoid (Hill, M.N. (528) 99)

Argemone platyceras

Isoquercitrin; Rutin; Asthma; Carbachol; Antigen challenge; Anti-asthmatic properties; Anti-leukotriene action (Fernandez, J. (522) 108)

L-arginine

Acute pulmonary embolism; Nitric oxide; Phosphodiesterase-5 inhibitor; Pulmonary hypertension; Sildenafil (Souza-Silva, A.R. (524) 126)

Aripiprazole

Antipsychotic; Partial agonist; Dopamine D2 receptor; Receptor density; Schizophrenia (Tadori, Y. (515) 10)

ARL 17477

Nitricergic neurotransmission; Fundic compliance; Neuronal nitric oxide synthase; (Pig) (Lefebvre, R.A. (525) 143)

Aromatic diamine compound

Inducible nitric oxide synthase; Nuclear factor- κ B; Anti-inflammation; Macrophages (Shin, H.-M. (521) 1)

Arrhythmia

Ischemia/reperfusion; Na⁺/Ca²⁺ exchange; Digitalis (Nagasawa, Y. (506) 249)

Fasudil; Infarct size; Preconditioning; Rho-kinase (Demiryürek, Ş. (527) 129)

Arsenic trioxide

Apoptosis; TRF1; TRF2; Reactive oxygen species; Telomeric state (Zhang, Y. (516) 1)

Arthritis

Statin; Inflammation; Nociception; Cytokine (Barsante, M.M. (516) 282)

Arthritis, adjuvant induced

Matrix metalloproteinase; Bone destruction; Osteoclast (Ishikawa, T. (508) 239)

ASK1

LTD₄; AP-1; Airway smooth muscle cells; Remodeling (Kumasawa, F. (517) 11)

Aspirin

Genetic acid; Antioxidant; LDL oxidation (Ashidate, K. (513) 173)

Glycolysis; 6-phosphofructo-2-kinase/fructose-2,6-bisphosphatase; Fructose 2,6-bisphosphate; Pentose phosphate pathway; Apoptosis; Glutathione peroxidase; Glutathione; Nuclear factor kappa B (Cuesta, E. (517) 158)

Astaxanthin

Anti-ulcer drug; Gastric antral ulceration; Orogastic administration; *Xanthophyllomyces dendrorhous* (Kim, J.-H. (514) 53)

Asthma

c-Jun NH₂-terminal kinase; Airway inflammation; Airway smooth muscle; Bronchial responsiveness (Nath, P. (506) 273)

Common cold; ICAM-1 (intercellular adhesion molecule-1); Proton pump; Lansoprazole (Sasaki, T. (509) 201)

Nitric oxide; Eosinophil; Airway inflammation; Hyperreactivity (Landgraf, R.G. (518) 212)

IL-4; IL-6; pH; Airway inflammation (Carpagnano, G.E. (519) 175)

Late phase response; Mast cell; Inflammation; Corticosteroid; Cytokine (Nabe, T. (521) 144)

Isoquercitrin; Rutin; Carbachol; *Argemone platyceras*; Antigen challenge; Anti-asthmatic properties; Anti-leukotriene action (Fernandez, J. (522) 108)

Leukotriene receptor antagonist; Airway mucus; Secretion; COPD (chronic obstructive pulmonary disease) (Schmidt, R. (527) 150)

Astragalus membranaceus

Astrapterocarpan; Platelet-derived growth factor; Vascular smooth muscle cell; Cardiovascular disease (Ohkawara, S. (525) 41)

Astrapterocarpan

Astragalus membranaceus; Platelet-derived growth factor; Vascular smooth muscle cell; Cardiovascular disease (Ohkawara, S. (525) 41)

Astrocytoma

Platinum; Cancer; Apoptosis (Marković, M. (517) 28)

AT₁-receptor antagonist

Endothelial dysfunction; NO (nitric oxide); Hypertension; Bradykinin; Angiotensin-converting enzyme inhibitor (De Gennaro Colonna, V. (516) 253)

Atipamezole

α_2 A-adrenoceptor; D-amphetamine; Locomotor activity; Behavioural sensitization; Knock-out (mouse) (Juhila, J. (517) 74)

Dexmedetomidine; Animal behaviour; Social conflict; Aggression (Votava, M. (523) 79)

Atomic force microscopy

P2X receptor; Protein structure; ATP (Nakazawa, K. (518) 107)

Atopic dermatitis

Olopatadine hydrochloride; Histamine H₁ receptor antagonist; Scratching; Animal model (Tamura, T. (524) 149)

Atorvastatin

Quinapril; Apoptosis; Confocal microscopy; Hypertension; Morphometry; Vascular reactivity (Yang, L. (518) 145)

Atosiban

Barusiban; Carbetocin; G-protein coupled receptors; Oxytocin (Gimpl, G. (510) 9)

ATP

P2X receptor; P2Y receptor; Mouse stomach; Contraction; Relaxation (Mulè, F. (513) 135)

P2X receptor; Atomic force microscopy; Protein structure (Nakazawa, K. (518) 107)

Cough reflex; C-fiber; Rapidly adapting receptor; Ionotropic purinergic receptor (Kamei, J. (528) 158)

ATPase

Caloxin 2A1; Erythrocyte; Homeostasis; Signal transduction (Pande, J. (508) 1)

ATP-sensitive K⁺ channel

Channel kinetics; Intracellular Ca²⁺-activated large-conductance K⁺ channel; U-37883A (Teramoto, N. (506) 1)

ATP-sensitive K⁺ channels

Channel pore; U-37883A; Voltage-dependent Ca²⁺ channels (Tomoda, T. (524) 1)

ATP-sensitive K⁺ channels (Adenosine 5'-triphosphate-sensitive K⁺ channels)

Cerebral artery; Vasodilatation; Endothelium; Vascular smooth muscle; (Rat) (Jansen-Olesen, I. (523) 109)

ATP-sensitive potassium channel

Proliferation; Iptakalim; Fluo-3; Pulmonary arterial smooth muscle cell (Xie, W. (511) 81)

Acidosis; Human internal mammary artery; pH; Vascular smooth muscle (Rohra, D.K. (514) 175)

Atrial natriuretic peptide

Molsidomine; Sildenafil; Pulmonary hypertension; Acetylcholine; (Chronic hypoxic rats) (Andersen, C.U. (510) 87)

Brain natriuretic peptide; C-type natriuretic peptide; Cyclic GMP protein kinase; (Rabbit) (Zhang, Q. (510) 209)

Atropine

Diabetic gastroparesis; Postprandial hypertriglyceridemia; *Rheum palmatum* L.; Domperidone (Xie, W. (510) 113)

Attention

Dopamine; Addiction; Human; Craving; Reward (Franken, I.H.A. (526) 199)

Auditory evoked potential

Serotonin; Selective serotonin reuptake inhibitor; Auditory measure; Transient evoked emission; SCAN-A (Gopal, K.V. (520) 59)

Auditory measure

Serotonin; Selective serotonin reuptake inhibitor; Transient evoked emission; Auditory evoked potential; SCAN-A (Gopal, K.V. (520) 59)

Autoantibody

Tripterine; Systemic lupus erythematosus; Chromatin; Cytokine; Splenocyte proliferation (Li, H. (512) 231)

Autoradiography

NBTI (nitrobenzylthioinosine); NOP (nociceptin opioid peptide); Paracetamol; Adenosine uptake; Nociceptin (Godfrey, L. (508) 99)

Imidazoline I₂ binding site; [³H]2-BFI; MAO-B; Brain; (Mouse) (MacInnes, N. (516) 139)

Azimilide

Dofetilide; HMR 1556; Ischemia–reperfusion; Delayed outward rectifier; (Guinea-pig) (Ducroq, J. (518) 165)

Azithromycin

Neutrophil; Chronic obstructive pulmonary disease (COPD); Inflammation marker; Cytokine (Parnham, M.J. (517) 132)

Ba²⁺

Hyperpolarization-activated cation channels; In situ patch clamp; HEK 293 cells (van Welie, I. (507) 15)

(Baboon)

Triazolam; Flumazenil; Bretazenil; Benzodiazepine; Physical dependence; Precipitated withdrawal (Weerts, E.M. (519) 103)

Baclofen

Neocortex; 3-Chloro,4-methoxyfendiline; Pre- and postsynaptic GABA_B receptor; (Rat) (Ong, J. (507) 35)

Positive allosteric modulation; GABA_B receptor; CGP7930; GS39783; Alcohol drinking behavior; Sardinian alcohol-preferring (sP) (Rat) (Orrù, A. (525) 105)

Bad

Luteolin; Apoptosis; Caspase; Mitochondria; Bcl-2; Bcl-X_L; Bax; Cleavage (Cheng, A.-C. (509) 1)

Baicalein

Melatonin; Anti-amnesic effect; β-Amyloid peptide-(25–35); Passive avoidance test (Wang, S.-Y. (506) 55)

Baicalin

Iron overload; Oxidative injury; Liver (Zhao, Y. (509) 195)

Bakumondo-to (Mai-men-dong-tang)

Glycyrrhizae radix; Antitussive effect; Liquiritin apioside; Liquiritin; Liquiritigenin (Kamei, J. (507) 163)

Barusiban

Atosiban; Carbetocin; G-protein coupled receptors; Oxytocin (Gimpl, G. (510) 9)

Basal vascular tone

Hypertension; Mitogen-activated protein kinase; Vascular smooth muscle; Protein kinase C (Kim, J. (514) 209)

Bax

Luteolin; Apoptosis; Caspase; Mitochondria; Bcl-2; Bcl-X_L; Bad; Cleavage (Cheng, A.-C. (509) 1)

BAY 41-2272

Soluble guanylate cyclase; Heme; Nitric oxide; cGMP; BAY 58-2667; YC-1 (Schmidt, P.M. (513) 67)

BAY 58-2667

Soluble guanylate cyclase; Heme; Nitric oxide; cGMP; BAY 41-2272; YC-1 (Schmidt, P.M. (513) 67)

Bcl-2

Luteolin; Apoptosis; Caspase; Mitochondria; Bcl-X_L; Bad; Bax; Cleavage (Cheng, A.-C. (509) 1)

Apoptosis; Necrosis; Mitochondria; Calcium ionophore; Clonazepam (Hamahata, K. (516) 187)

Bcl-X_L

Luteolin; Apoptosis; Caspase; Mitochondria; Bcl-2; Bad; Bax; Cleavage (Cheng, A.-C. (509) 1)

BDNF

Cerebral ischemia; Microsphere; Synapsin I (Ando, T. (507) 49)

Behavior

Corticotropin releasing factor; Stress; Amygdala; Antagonist; (Rat) (Gehlert, D.R. (509) 145)

Behavioral conditioning

Nicotine; Cocaine; Development; Substance abuse; Rat (McMillen, B.A. (509) 161)

Behavioral economics

Addiction; Dependence; Choice; Dopamine; Lateral hypothalamus; Cocaine; Heroin; Prefrontal cortex (Ahmed, S.H. (526) 9)

Behavioral sensitization

Nociceptin; Orphanin FQ; *c-fos*; Nociceptin receptor; Orphanin FQ receptor (Okabe, C. (507) 57)

Behavioural sensitization

α_2 -adrenoceptor; D-amphetamine; Atipamezole; Locomotor activity; Knock-out (mouse) (Juhila, J. (517) 74)

Bemiparin

Experimental asthma; Brown–Norway (rat); Fondaparinux (Suchankova, J. (507) 261)

Benzamide

σ_2 receptor; Radioligand binding; Breast tumor (Xu, J. (525) 8)

Benz[*f*]indole-4,9-dione

2-Amino-3-ethoxycarbonyl-*N*-methylbenz[*indole*-4,9-dione; Extracellular matrix; Matrix metalloproteinase; Tissue inhibitor of metalloproteinase; Membrane type 1-matrix metalloproteinase (Park, H.J. (527) 31)

Benzodiazepine

GABA (γ -aminobutyric acid); 6-methylflavanone; 6-methylflavone; Flavanoid; GABA_A receptor (Hall, B.J. (512) 97)

Dorsal periaqueductal grey; GABA; Elevated T-maze; Generalised anxiety; Panic disorder (Bueno, C.H. (516) 239)

Triazolam; Flumazenil; Bretazenil; Physical dependence; Precipitated withdrawal; (Baboon) (Weerts, E.M. (519) 103)

GABA_A receptor; Amentoflavone; Biflavonoid (Hansen, R.S. (519) 199)

Benzodiazepines

Dopamine; Acetylcholine; Microdialysis; Valium; Withdrawal; Flumazenil; (Rat) (Rada, P. (508) 131)

Etizolam; GABA_A receptor; Tolerance; Dependence; Gene expression (Sanna, E. (519) 31)

Aggression; Serotonin; Defense; Frustration; Alcohol; Dopamine; GABA; Neuroleptics (de Almeida, R.M.M. (526) 51)

Benzoyllecgonine

Cocaine; Butyrylcholinesterase; Ecgonine methylester; Cymserine; (Rat) (Carmona, G.N. (517) 186)

Beta

Interferon alpha; Gamma; Immune; Endocrine; Sleep; Food; Temperature; Glucose sensitive; Opiate; Naloxone (Dafny, N. (523) 1)

Beta 1-adrenoceptor antagonist

Diabetes mellitus; Endothelial dysfunction; NAD(P)H oxidase; Oxygen radical; Angiotensin AT₁ receptor antagonist (Dorenkamp, M. (520) 179)

Betahistidine

Vestibular disorder; Electrophysiology (Barresi, M. (515) 73)

Betahistine dihydrochloride

Histidine decarboxylase; In situ hybridization; Tuberomammillary nuclei; (Cat) (Tighilet, B. (523) 54)

Bethanechol

Colonic secretion; Ontogeny; Ion transport development; Histamine; 5-Hydroxytryptamine (Mrnka, L. (516) 268)

Biased conditioning apparatus

Lithium chloride; Place conditioning; Nausea; Toxin; Long-Evans rat; Open-field (Tenk, C.M. (515) 117)

Biflavonoid

GABA_A receptor; Benzodiazepine; Amentoflavone (Hansen, R.S. (519) 199)

Bile duct ligation

Nitric oxide; Vascular reactivity; Liver cirrhosis; Methoxamine; Calcium; Thapsigargin (Atucha, N.M. (525) 117)

BIM-23127

Urotensin-II; GPR14; UT receptor; SB-710411; GSK248451; Trachea; Bronchus (Behm, D.J. (516) 276)

Binding

Levetiracetam; SV2A; Rat spinal cord (Lambeng, N. (520) 70)

Binding site

G protein-coupled receptor; Nonpeptide antagonist; Site-directed mutagenesis; Tachykinin NK₂ receptor β isoform (Meini, S. (516) 104)

Cyclic peptide; G protein-coupled receptor; Icatibant; Site-directed mutagenesis (Cucchi, P. (528) 7)

Bipolar

Lamotrigine; Monoamine oxidase inhibition; Moclobemide; 5-hydroxytryptophan; Tyramine (Southam, E. (519) 237)

Bisphosphonate

Hypercalcaemia; Renal dysfunction (Komatsu, Y. (507) 317)

BK_{Ca} channel

Protopine; K_{ATP} channel; Sulphonylurea receptor; Heterologous expression (Jiang, B. (506) 93)

BK_{Ca} (large-conductance Ca²⁺-activated K⁺ channel)

Cerebral cortex; Chemical ischemia; Excitotoxicity; Neuronal death (Katsuki, H. (508) 85)

Bladder overactivity

K_{ATP} channel opener; (Rat) (Pinna, C. (516) 71)

Bladder smooth muscle

β -adrenoceptor; cAMP; Ca²⁺-activated K⁺ channel (Uchida, H. (518) 195)

Bleomycin

Lung fibrosis; Mesna (El-Medany, A. (509) 61)

Blood ethanol level

Nicotine discrimination; Ethanol; Antagonism (Korkosz, A. (512) 165)

Blood flow

Leptin; Endothelium; Nitric oxide; Blood pressure (Rahmouni, K. (518) 175)

Blood pressure

Glucose; Insulin; Renin angiotensin system; Sympathetic nervous system; Vasodilation (Villafañá, S. (506) 143)

5-HT_{1A} receptor; Stress; Heart rate; Anxiolytic; Strain difference (van den Buuse, M. (507) 187)

Hypothyroidism; Adrenoceptor; Muscarinic receptor; Nitric oxide (NO) (Iwata, T. (507) 311)

Leptin; Blood flow; Endothelium; Nitric oxide (Rahmouni, K. (518) 175)

Body temperature

Clomethiazole; Tolerance; Pharmacodynamic interaction; GABA_A (γ -Aminobutyric acid_A) receptor; 5-HT_{1A} (5-Hydroxytryptamine_{1A}) receptor; NMDA (*N*-methyl-D-aspartate) receptor; Hypothermia (Visser, S.A.G. (512) 139)

Imidazoline₁-binding site; α_2 -Adrenoceptor (Cambridge, N. (519) 86)

Bombesin

Thromboxane A₂; Prostaglandin E₂; Noradrenaline; Adrenal gland; Sympathetic nerve (Yokotani, K. (512) 29)

Bombesin BB₂ receptor

Brain; Phospholipase C; Diacylglycerol lipase: Sympatho-adrenomedullary outflow (Shimizu, T. (514) 151)

Bone destruction

Matrix metalloproteinase; Arthritis, adjuvant induced; Osteoclast (Ishikawa, T. (508) 239)

Bosentan

Septic shock; Endothelin; Organ injury; Survival (Iskit, A.B. (506) 83)

Tacrolimus (FK506); Vascular reactivity; Endothelin; Isolated perfused kidney and mesentery (Tekes, E. (517) 92)

Botulinum toxin type-A

M toxin; Muscle weakening; Grip strength (Yoneda, S. (508) 223)

Bovine endothelial cells

Hypericin; St. John's wort; Angiogenesis inhibitor (Martínez-Poveda, B. (516) 97)

Bradykinin

Substance P; Citric acid and cough (El-Hashim, A.Z. (513) 125)

Endothelial dysfunction; NO (nitric oxide); Hypertension; Angiotensin-converting enzyme inhibitor; AT₁-receptor antagonist (De Gennaro Colonna, V. (516) 253)

Kinin; Insulin; Glucose; Rat uterus; Angiotensin-converting enzyme inhibitor (Damas, J. (525) 154)

Bradykinin B₁ receptor

Type 1 diabetes; Non-obese diabetic mice; Hyperalgesia; Kinin; desArg⁹-bradykinin; R-715; R-954 (Gabra, B.H. (514) 61)

Type 1 diabetes; Vascular permeability; Plasma extravasation (Lawson, S.R. (514) 69)

Lipopolysaccharide; (Rat) aorta; Calcium-dependent K⁺ channel (Farias, N.C. (525) 123)

Antinociception; Spinal cord; (Rat) (Conley, R.K. (527) 44)

Bradykinin receptor antagonist

Non-peptide; Guinea-pig ileum smooth muscle contraction; Chlorobenzhydryl piperazine (Kam, Y.L. (523) 143)

Brain

Bombesin BB₂ receptor; Phospholipase C; Diacylglycerol lipase: Sympatho-adrenomedullary outflow (Shimizu, T. (514) 151)

Imidazoline I₂ binding site; [³H]2-BFI; Autoradiography; MAO-B; (Mouse) (MacInnes, N. (516) 139)

Linopirdine; Cytochrome; M-channel; Liver (Wolff, C. (518) 10)

Brain energy metabolism

Memory improvement; Habituation; Recognition memory; Mitochondrial respiration; (Rat) (Riha, P.D. (511) 151)

Brain injury

Transdermal patch; Physostigmine; Procyclidine; Soman; Mortality; Incapacitation (Kim, W.-S. (525) 135)

Brain natriuretic peptide

Corin; Neutral endopeptidase; Myocardial necrosis (Jiang, W. (507) 153)

Atrial natriuretic peptide; C-type natriuretic peptide; Cyclic GMP protein kinase; (Rabbit) (Zhang, Q. (510) 209)

Hypoxic cor pulmonale; Angiotensin II-receptor blocker; Olmesartan medoxomil; Hypoxia; Remodeling; Collagen; TGF- β (Nakamoto, T. (528) 43)

Brain renin-angiotensin system

Angiotensinogen mRNA; Angiotensin AT₁ receptor antagonist; Losartan; Irbesartan (Pediconi, D. (528) 79)

Brazilin

NO (nitric oxide); iNOS (inducible nitric oxide synthase); NF- κ B (nuclear factor- κ B); AP-1 (activator protein-1); Anti-inflammatory (Bae, I.-K. (513) 237)

Breast tumor

σ_2 receptor; Radioligand binding; Benzamide (Xu, J. (525) 8)

Bretazenil

Triazolam; Flumazenil; Benzodiazepine; Physical dependence; Precipitated withdrawal; (Baboon) (Weerts, E.M. (519) 103)

Bromocriptine

Pergolide; Cabergoline; Lisuride; Terguride; Valvular heart disease; 5-HT_{2B} receptor agonism (Jähnichen, S. (513) 225)

Bronchial asthma

Airway edema; Bronchoconstriction; Lysophosphatidylcholine; (Guinea pig) (Nobata, K. (520) 150)

Bronchial responsiveness

Asthma; c-Jun NH₂-terminal kinase; Airway inflammation; Airway smooth muscle (Nath, P. (506) 273)

Bronchial smooth muscle

RhoA translocation; Endothelin-1 (Chiba, Y. (517) 182)

Bronchoconstriction

Airway edema; Bronchial asthma; Lysophosphatidylcholine; (Guinea pig) (Nobata, K. (520) 150)

Bronchus

Urotensin-II; GPR14; UT receptor; BIM-23127; SB-710411; GSK248451; Trachea (Behm, D.J. (516) 276)

Brown Norway rat

Schizophrenia; Sensorimotor gating; Startle amplitude; Wistar-Kyoto rat (Conti, L.H. (507) 125)

Brown-Norway (rat)

Experimental asthma; Bemiparin; Fondaparinux (Suchankova, J. (507) 261)

Brush-border membrane

Urinary excretion; Phenolsulfonphthalein; p-Aminohippurate; Anion exchanger (Itagaki, S. (518) 83)

Bumetanide

Chloride channel; Niflumic acid; Nifedipine; Pulmonary artery; rat (Oriowo, M.A. (506) 157)

OAT; Drug transport; Transporter; Diuretic (Kobayashi, Y. (524) 44)

 α -Bungarotoxin

Melatonin; Nicotinic acetylcholine receptor; Myotube culture; Cyclic AMP; Calmodulin (de Almeida-Paula, L.D. (525) 24)

Bupivacaine

Levobupivacaine; Neurotoxicity; NMDA; Mice mixed cultures of cortical neurons (Marganella, C. (518) 111)

Bupivacaine enantiomers

Ca²⁺-induced Ca²⁺ release; Stereoselectivity; Ryanodine receptor; Skeletal muscle; Skinned fiber (Ibarra M., C.A. (512) 77)

Buprenorphine

Fentanyl; Δ^9 -THC; Antinociception; Transdermal; (Guinea pig) (Ciche-wicz, D.L. (525) 74)

Bupropion

Morphine; Naltrexone; Dextromethorphan; Mecamylamine; Opioid withdrawal (Taraschenko, O.D. (513) 207)

Burseraceae

Skin inflammation; *Protium kleinii*; α -Amyrin; Triterpenes; Ear oedema (Otuki, M.F. (507) 253)

Buspirone

Short-term memory; 5-HT_{1A} receptor; Fluoxetine; 8-OH-DPAT (8-hydroxy-di-*n*-propylamino tetralin); WAY100635 (Fernández-Pérez, S. (522) 78)

1,4-Butanediol

Schedule-controlled behavior; Mean arterial pressure; Heart rate; Radio telemetry; (Rat) (Gerak, L.R. (506) 75)

Butyrylcholinesterase

Cocaine; Ecgonine methylester; Cymserine; Benzoylcegonine; (Rat) (Carmona, G.N. (517) 186)

C57BL/6 mouse

Dopamine; Ethanol; Nucleus accumbens; Voltammetry (Budygin, E.A. (523) 40)

C75

Fatty acid synthase; Appetite suppression; Obesity (Rohrbach, K.W. (511) 31)

Ca²⁺

Cyclooxygenase-2; Prostaglandin E₂; Oxygen–glucose deprivation; Pre-conditioning; Primary cortical cultures (Gendron, T.F. (517) 17)

Ca²⁺ accumulation

TRPV1 receptor antagonist; JYL1421 (SC0030); Sensory neuropeptide release; Wiping test; Hypothermia; Pulmonary chemoreflex (Jakab, B. (517) 35)

Ca²⁺ current

Cardiac myocyte; Cell contraction; Action potential; Red wine (Liew, R. (519) 1)

Ca²⁺ release

Ryanodine receptor; HEK293 cells; Capacitative Ca²⁺ entry (Luo, D. (509) 109)

Ca²⁺ transient

Inotropic effect; Endothelin-1; Wortmannin; Rabbit cardiac myocyte (Chu, L. (507) 135)

Insulin; 5-HT_{2A} receptor; Internalization (Ohkura, M. (518) 18)

Ca²⁺-activated K⁺ channel

Bladder smooth muscle; β -adrenoceptor; cAMP (Uchida, H. (518) 195)

Ca²⁺-induced Ca²⁺ release

Bupivacaine enantiomers; Stereoselectivity; Ryanodine receptor; Skeletal muscle; Skinned fiber (Ibarra M., C.A. (512) 77)

Cabergoline

Pergolide; Bromocriptine; Lisuride; Terguride; Valvular heart disease; 5-HT_{2B} receptor agonism (Jähnichen, S. (513) 225)

Caco-2 cell line

Tetramethylpyrazine; Cystic fibrosis transmembrane conductance regulator; cAMP; K⁺ channel; Membrane permeabilization (Zhu, J.X. (510) 187)

Caffeic acid phenethyl ester

Acetylcholinesterase inhibitor; Gastric acid secretion; Stomach (Borrelli, F. (521) 139)

Caffeine

Oxotremorine-M; Turning behavior; Striatum; Adenosine/acetylcholine interaction (Núñez-Taltavull, J.F. (506) 71)

Adenosine; Neurodevelopment; Maternal intake; Glutamate; Locomotor activity (da Silva, R.S. (509) 155)

Adenosine A_{2A} receptor; (Mouse) (El Yacoubi, M. (519) 290)

Calcium

Nicotine; Epibatidine; Tyrosine hydroxylase; Transcription (Gueorguiev, V.D. (506) 37)

Streptozotocin-diabetes; Colon; Ileum; Motility; (rat) (Forrest, A. (509) 77)

Melanocortin receptor; Radioligand binding; Cooperativity; Melanocyte stimulating hormone; Sf9 cells (Kopanchuk, S. (512) 85)

Fura-2; Long-chain fatty alcohol; Pituitary neural lobe; Primary sensory neuron; Trimethyl-cyclohexenonic alcohol (Jover, E. (516) 197)

Adenosine; cAMP; cGMP; GEA 3175; Milrinone; Nitric oxide; Phosphodiesterases; Platelets (Asplund Persson, A. (517) 149)

Protein kinase C; Intestine; Phorbol ester; Cell damage (Tepperman, B.L. (518) 1)

Denervation; Vas deferens; Sarco(endo)plasmic reticulum (Ca²⁺–Mg²⁺)ATPase; Plasma membrane (Ca²⁺–Mg²⁺)ATPase; Ryanodine receptor (Quintas, L.E.M. (525) 54)

Nitric oxide; Vascular reactivity; Liver cirrhosis; Methoxamine; Bile duct ligation; Thapsigargin (Atucha, N.M. (525) 117)

Calcium dobesilate

Diabetes; VEGF (vascular endothelial cell growth factor); Angiogenesis; (Rat) (Lameynardie, S. (510) 149)

Calcium ionophore

Apoptosis; Necrosis; Mitochondria; Clonazepam; Bcl-2 (Hamahata, K. (516) 187)

Calcium–calmodulin

Hyperpolarization-activated channel; cAMP; Sino-atrial (Chatelier, A. (521) 29)

Calcium-dependent K⁺ channel

Bradykinin B₁ receptor; Lipopolysaccharide; (Rat) aorta (Farias, N.C. (525) 123)

Calmodulin

Melatonin; Nicotinic acetylcholine receptor; α -Bungarotoxin; Myotube culture; Cyclic AMP (de Almeida-Paula, L.D. (525) 24)

Caloxin 2A1

ATPase; Erythrocyte; Homeostasis; Signal transduction (Pande, J. (508) 1)

Calpain

Angiotensin I-converting enzyme inhibitor; Angiotensin II type 1 receptor blocker; Dystrophin glycoprotein complex; Hypertrophy; Myocardial infarction (Takahashi, M. (522) 84)

Calpain inhibitor

Cardiovascular; Heart; Ischemia and reperfusion; Myocardial infarction; Cysteine protease (Khalil, P.N. (528) 124)

Calyculin A

Alzheimer disease; Tau; Phosphorylation; Melatonin (Li, X.-C. (510) 25)

CaMK II

Honokiol; Cortical neuron, rat; Neurite outgrowth; ERK1/2 (Zhai, H. (516) 112)

cAMP

Cortistatin; Circadian rhythm; Sleep–waking cycle; Memory evocation (Méndez-Díaz, M. (507) 21)

Levosimendan; Acidosis; Epinephrine; Guinea pig; Contractility (Toller, W. (507) 199)

Tetramethylpyrazine; Cystic fibrosis transmembrane conductance regulator; K⁺ channel; Membrane permeabilization; Caco-2 cell line (Zhu, J.X. (510) 187)

Glucagon; Dobutamide; Phosphodiesterase inhibitor; Cilostamide; Rat ventricle; Cardiac contractility (Juan-Fita, M.J. (512) 207)

Adrenergic downregulation; Phosphodiesterase inhibitor; Myocardial contractility (Osadchii, O. (514) 201)

Adenosine; Calcium; cGMP; GEA 3175; Milrinone; Nitric oxide; Phosphodiesterases; Platelets (Asplund Persson, A. (517) 149)

Bladder smooth muscle; β -adrenoceptor; Ca²⁺-activated K⁺ channel (Uchida, H. (518) 195)

Calcium–calmodulin; Hyperpolarization-activated channel; Sino-atrial (Chatelier, A. (521) 29)

Caudate; Rotation; Dopamine D2 receptor; *c-fos*; Striosome; SKF83959 (Wirtshafter, D. (528) 88)

Cancer

Astrocytoma; Platinum; Apoptosis (Marković, M. (517) 28)

Cancer pain

Nicotinic acetylcholine receptor; Neuropathic pain; Allodynia; Analgesia; Vincristine (Lynch III, J.J. (509) 43)

Canine

5-HT_{2A} receptor; 5-HT_{2B} receptor; Radioligand binding; Cloning (Bona-venture, P. (513) 181)

Cannabidiol

Cannabinoid; Cannabinoid receptor; SR141716; SR144528; Intestinal motility (Fride, E. (506) 179)

Cannabinoid; Antipsychotic; Psychotomimetic; Locomotion; Catalepsy (Moreira, F.A. (512) 199)

Cannabinoid

Cannabidiol; Cannabinoid receptor; SR141716; SR144528; Intestinal motility (Fride, E. (506) 179)

Neuropathic pain; Cannabinoid CB₁ receptor; Cannabinoid CB₂ receptor; Vanilloid TRPV-1 receptor; Spinal cord; Fos (Rodella, L.F. (508) 139)

Anandamide; Cross-tolerance; Methanandamide; Tetrahydrocannabinol; Tolerance (Wiley, J.L. (510) 59)

Cannabidiol; Antipsychotic; Psychotomimetic; Locomotion; Catalepsy (Moreira, F.A. (512) 199)

Postoperative pain; Tactile allodynia (LaBuda, C.J. (527) 172)

Cannabinoid CB₁ receptor

Neuropathic pain; Cannabinoid; Cannabinoid CB₂ receptor; Vanilloid TRPV-1 receptor; Spinal cord; Fos (Rodella, L.F. (508) 139)

GABA_B receptor; Antinociceptive; Spinal cord; (Rat) (Naderi, N. (514) 159)

Sympathetic nervous system; P2X receptor; NESS 0327 (Tambaro, S. (525) 150)

Cannabinoid CB₂ receptor

Neuropathic pain; Cannabinoid; Cannabinoid CB₁ receptor; Vanilloid TRPV-1 receptor; Spinal cord; Fos (Rodella, L.F. (508) 139)

JTE-907; Inverse agonist; Agonist; Ear swelling (Ueda, Y. (520) 164)

GW405833; Inflammatory pain; Neuropathic pain; Knockout; Opioid (Whiteside, G.T. (528) 65)

Cannabinoid receptor

Cannabidiol; Cannabinoid; SR141716; SR144528; Intestinal motility (Fride, E. (506) 179)

Cannabinoid receptor agonist

Guanine nucleotide binding protein; G protein γ_2 subunit; Opioid receptor agonist; Clonidine; Antinociception (Varga, E.V. (508) 93)

Cannabinoid receptor ligand

5-HT₃ receptor; Cocaine; Locomotor activity (Przegaliński, E. (517) 68)

Cannabinoids

Anandamide; THC (Tetrahydrocannabinol); Aorta; Endothelium; Vanilloid (O'Sullivan, S.E. (507) 211)

c-ANP-(4-23) amide

C-type natriuretic peptide; Central nervous system; Exocrine pancreatic secretion; cGMP pathway; Natriuretic peptide receptor A; Natriuretic peptide receptor B (Sabbatini, M.E. (524) 67)

Capacitance vessel

Urocortin; Corticotropin releasing factor; Mean arterial pressure; Mean circulatory filling pressure; Venous (Abdelrahman, A.M. (510) 107)

Capacitative Ca^{2+} entry

Ryanodine receptor; HEK293 cells; Ca^{2+} release (Luo, D. (509) 109)

Rat portal vein; Store operated Ca^{2+} entry; Cyclopiazonic acid; Niflumic acid (Burt, R.P. (510) 97)

TRPC1; TRPC5; Human epidermoid carcinoma A431 cell; Thapsigargin; Uridine 5'-triphosphate (Yoshida, J. (510) 217)

Capsaicin

Histamine; Gastric ulcer; Histamine receptor antagonist; Gastric mucosal blood flow; Interleukin-1 β (Dembiński, A. (508) 211)

Hydrogen sulfide (H_2S); Sensory neuron; Urinary bladder (Patacchini, R. (509) 171)

TRPV1 (transient receptor potential vanilloid receptor-1); Cloning; Dog; Ganglia; FLIPR (fluorescence imaging plate reader) (Phelps, P.T. (513) 57)

Vanilloids; TRPV1; Prostate (Sánchez, M.G. (515) 20)

CHF3381; NMDA receptor antagonist; MAO-A inhibitor; Antinociceptive effect (Bassani, F. (519) 231)

Ethosuximide; T-type Ca^{2+} channel; Central sensitization; Pentylentetrazol; Formalin (Barton, M.E. (521) 79)

Capsazepine

Allergic airway response; Ovalbumin; TRPV1 (transient receptor potential vanilloid 1) (van den Worm, E. (518) 77)

Captopril

Homocysteine; Endothelium-dependent relaxation; ADMA (Asymmetric dimethylarginine); NO (Nitric oxide); (Rat) (Fu, Y.-F. (508) 167)

Carbachol

Antihistamine; Anticholinergic; Histamine H_1 antagonist; Acetylcholine (Orzechowski, R.F. (506) 257)

Cl^- channel; Rat colon (Schultheiss, G. (512) 67)

Isoquercitrin; Rutin; Asthma; *Argemone platyceras*; Antigen challenge; Anti-asthmatic properties; Anti-leukotriene action (Fernandez, J. (522) 108)

Carbamazepine

Aminoglutethimide; Spironolactone; Diphenylhydantoin; Amygdala-kindled seizures (Borowicz, K.K. (516) 212)

Carbetocin

Atosiban; Barusiban; G-protein coupled receptors; Oxytocin (Gimpl, G. (510) 9)

 β -carboline

Norharman; Imidazoline I_2 receptor; [^3H]2-BFI; [^3H]Ro41-1049; [^3H]Ro19-6327 (lazabemide); Morphine addiction; (Rat) brain and liver (Miralles, A. (518) 234)

8-Carboxamidocyclazocine

Kappa agonist; Cocaine; Drug self-administration; Monkey; rhesus (Stevenson, G.W. (506) 133)

5-carboxamidotryptamine

Adaptive change; Epileptiform activity; Hippocampal slice; WAY 100635; SB 269970 (Tokarski, K. (524) 60)

Cardiac

Hypertrophy; Diabetes; PPAR γ ; Troglitazone; Protein kinase C (Bell, D. (508) 69)

Cardiac cell

KR-31378; Potassium channel; Protein kinase C- ϵ ; Hypoxia (Moon, C.-H. (506) 27)

Cardiac contractility

Glucagon; Dobutamide; Phosphodiesterase inhibitor; Cilostamide; Rat ventricle; cAMP (Juan-Fita, M.J. (512) 207)

Inducible nitric oxide synthase; Nitrotyrosine; Isoprostane; Antioxidant (Cheng, X. (519) 118)

Cardiac dysfunction

Rho-kinase; Angiotensin II; Cardiac hypertrophy; Perivascular fibrosis; Apolipoprotein E knockout mice (Wang, Y.-X. (512) 215)

Cardiac glycoside

Na^+/K^+ -ATPase; Endotoxin; Sepsis; Mathematical modeling (Baek, M. (514) 43)

Cardiac hypertrophy

Rho-kinase; Angiotensin II; Perivascular fibrosis; Cardiac dysfunction; Apolipoprotein E knockout mice (Wang, Y.-X. (512) 215)

Cardiac myocyte

β -adrenoceptor; Contractility; Isoprenaline (Stones, R. (512) 117)

Cell contraction; Ca^{2+} current; Action potential; Red wine (Liew, R. (519) 1)

Cardiomyocyte

Embryonic stem cells; Directional differentiation; Embryoid body; Icarin; Sarcomere; Cell cycle; Apoptosis; p53 (Zhu, D. (514) 99)

Cardiomyopathy

Hypertension; Diabetes; Angiotensin converting enzyme inhibition; Vaso-peptidase inhibition (Grönholm, T. (519) 267)

17- β -estradiol; Oxidative stress; Ovariectomy; Adriamycin (Muñoz-Castañeda, J.R. (523) 86)

Adrenoceptor; Cholestasis; Endogenous opioid peptide; NO (Nitric oxide); Papillary muscle (Ebrahimi, F. (523) 93)

Cardioprotection

Ischemia; Valsartan; Mitochondria; Heart; Cell biology (Monteiro, P. (518) 158)

KR-32570; Antiarrhythmia; Na^+/H^+ exchanger (Lee, B.H. (523) 101)

Cardioprotective effect

KR-32570; Na^+/H^+ exchanger; Lipid peroxidation (Lee, B.H. (511) 175)

Cardiovascular

Heart; Ischemia and reperfusion; Myocardial infarction; Cysteine protease; Calpain inhibitor (Khalil, P.N. (528) 124)

Cardiovascular disease

Astrapterocarpan; *Astragalus membranaceus*; Platelet-derived growth factor; Vascular smooth muscle cell (Ohkawara, S. (525) 41)

ABC transporter; Antiobesity drug; Cardiovascular drug; Drug-metabolizing enzyme; Drug target; Inflammation; Nutrigenetics; Nutrigenomics; Obesity; Pharmacodynamic; Pharmacogenetic; Statin (Siest, G. (527) 1)

Cardiovascular drug

ABC transporter; Antiobesity drug; Cardiovascular disease; Drug-metabolizing enzyme; Drug target; Inflammation; Nutrigenetics; Nutrigenomics; Obesity; Pharmacodynamic; Pharmacogenetic; Statin (Siest, G. (527) 1)

Cardiovascular dysfunction

Streptozotocin-induced diabetes; Oxidative stress; Nitric oxide scavenger (Hutchings, S.R. (528) 132)

Carnosine

Diabetes; Histidine; Hyperlipidemia; Cytokine (Lee, Y.-t. (513) 145)

Hyperactivity; Nitric oxide; Nitric oxide synthase; Chick (Tomonaga, S. (524) 84)

Carrageenan

Monogalactosyldiglyceride; Inflammation; Croton oil; Cyclooxygenase; Lipxygenase (Bruno, A. (524) 159)

Carrageenan-induced air pouch model

8-Isoprostaglandin F_{2α}; Prostaglandin E₂; Cyclooxygenase inhibitor; Vitamin E (Çiçek Özdöl, N. (506) 189)

Carrageenan-induced paw edema

Cyclooxygenase-2; Inflammation; Air pouch model; THP-1 cell line (Yin, L.-L. (520) 172)

CART

Cocaine; Corticosterone; Dopamine; Nucleus accumbens (Hunter, R.G. (517) 45)

Carvedilol

Congestive heart failure; α_1 -Adrenoceptor; β -Adrenoceptor; Lusitropic; Inotropic (Qvigstad, E. (516) 51)

Caspase

Luteolin; Apoptosis; Mitochondria; Bcl-2; Bcl-X_L; Bad; Bax; Cleavage (Cheng, A.-C. (509) 1)

Olomoucine; Roscovitine; SH-SY5Y; Jurkat (Ribas, J. (524) 49)

Sampangine; Apoptosis; Reactive oxygen species; Plant alkaloid; Mitochondria (Kluza, J. (525) 32)

Caspase-3 inhibitor

Phenylethyl isothiocyanate; Apoptosis; Antioxidant; PLC/PRF/5 cell (Wu, S.-J. (518) 96)

(Cat)

Histidine decarboxylase; In situ hybridization; Betahistine dihydrochloride; Tuberomammillary nuclei (Tighilet, B. (523) 54)

Catalepsy

Cannabidiol; Cannabinoid; Antipsychotic; Psychotomimetic; Locomotion (Moreira, F.A. (512) 199)

Cataract

Diabetes; Hyperglycemia; Hyperlipidemia; Lipid peroxide (Yoshida, M. (513) 159)

Cathepsin G

Neutrophil; Platelet; YC-1; P-selectin; fMLP; Whole blood (Liao, C.-H. (519) 158)

Caudate

cAMP; Rotation; Dopamine D2 receptor; *c-fos*; Striosome; SKF83959 (Wirtshafter, D. (528) 88)

Caudate-putamen

Nicotine; Epibatidine; Nomifensine; Dopamine; Nucleus accumbens; In vivo microdialysis (Janhunen, S. (511) 143)

CB₁

Endocannabinoid; Conditioning; Motivation; Food consumption; Knock-out (Hölter, S.M. (510) 69)

CCR2

Thiazolidinedione; PPAR γ ; MCP-1; Macrophage; Insulin resistance (Tanaka, T. (508) 255)

CD4/CD8 ratio

Sho-saiko-to, (SST); Wogonin; CD8⁺ T-cell; Proliferation (Ohtake, N. (507) 301)

CD8⁺ T-cell

Sho-saiko-to, (SST); Wogonin; CD4/CD8 ratio; Proliferation (Ohtake, N. (507) 301)

Cdc25B

HTS (high throughput screening); Selectivity; MCF-7; Antiproliferation; Cdk1 (cell-cycle-dependent kinase 1) (Kim, K.-R. (528) 37)

cdc25C

Gonithalamin; Redox status; Apoptosis; MDA-MB-231 cell (Chen, W.-Y. (522) 20)

Cdk1 (cell-cycle-dependent kinase 1)

Cdc25B; HTS (high throughput screening); Selectivity; MCF-7; Antiproliferation (Kim, K.-R. (528) 37)

cDNA microarray

Glucocorticoid receptor; Neuropathic pain; N-type calcium channel (Takasaki, I. (524) 80)

Celecoxib

Rofecoxib; Acetic-acid-induced colitis; Myeloperoxidase; Reduced glutathione; Total nitric oxide synthetase (El-Medany, A. (507) 291)

Microparticle; Retinal delivery; Oxidative stress; Diabetes (Ayalasomayajula, S.P. (511) 191)

Adjuvant-induced arthritis; Cyclooxygenase-2; Non-steroidal anti-inflammatory drug (Noguchi, M. (513) 229)

COX-2; Prostaglandin; Ulcer healing; Omeprazole; Misoprostol (Poonam, D. (519) 277)

Cell adhesion

PGG (1,2,3,4,6-penta-*O*-galloyl- β -D-glucose); Vasorelaxation; Nitric oxide/cGMP (guanosine 3', 5',-cyclic monophosphate) (Kang, D.G. (524) 111)

Cell biology

Ischemia; Valsartan; Mitochondria; Heart; Cardioprotection (Monteiro, P. (518) 158)

Cell contraction

Neonatal rat cardiomyocyte; Cyclosporin A; Ischemia–reperfusion; Electrophysiology; Protein release; Heat shock protein; Mitochondria (Bès, S. (511) 109)

Cardiac myocyte; Ca²⁺ current; Action potential; Red wine (Liew, R. (519) 1)

Cell cycle

Luteolin; Human lung squamous carcinoma cell line CH27; Apoptosis; Comet assay; DNA repair enzyme (Leung, H.W.-C. (508) 77)

Embryonic stem cells; Directional differentiation; Embryoid body; Cardiomyocyte; Icarin; Sarcomere; Apoptosis; p53 (Zhu, D. (514) 99)

Sirilimus; Paclitaxel; Restenosis; Cell proliferation (Parry, T.J. (524) 19)

Cell damage

Protein kinase C; Calcium; Intestine; Phorbol ester (Tepperman, B.L. (518) 1)

Cell differentiation

Helenalin; Protein kinase C; Extracellular signal-regulated kinase; Nuclear factor- κ B (Kim, S.H. (511) 89)

Cell injury

1-Methyl-4-phenylpyridinium; Glibenclamide; PC12 cell; Mitochondrial membrane permeability (Lee, C.S. (527) 23)

Cell proliferation

Sirilimus; Paclitaxel; Restenosis; Cell cycle (Parry, T.J. (524) 19)

Cellular electrophysiology

Terikalant; Antiarrhythmic action; Multichannel block (Biliczki, P. (510) 161)

Central nervous system

C-type natriuretic peptide; Exocrine pancreatic secretion; cGMP pathway; Natriuretic peptide receptor A; Natriuretic peptide receptor B; c-ANP-(4-23) amide (Sabbatini, M.E. (524) 67)

Central sensitization

Ethosuximide; T-type Ca^{2+} channel; Pentylentetrazol; Capsaicin; Formalin (Barton, M.E. (521) 79)

Cerebral artery

Sildenafil; Phosphodiesterase 5; Human; Migraine (Kruuse, C. (521) 105)

ATP-sensitive K^{+} channels (Adenosine 5'-triphosphate-sensitive K^{+} channels); Vasodilatation; Endothelium; Vascular smooth muscle; (Rat) (Jansen-Olesen, I. (523) 109)

Cerebral circulation

Signal transduction; Cyclic nucleotide; Nitric oxide (Baranov, D. (525) 112)

Cerebral cortex

BK_{Ca} (large-conductance Ca^{2+} -activated K^{+} channel); Chemical ischemia; Excitotoxicity; Neuronal death (Katsuki, H. (508) 85)

Epileptic seizure; NMDA receptor antagonist; Development; (Rat) (Šlamberová, R. (516) 10)

Serotonin; 5-HT_{1A} receptor; G protein; [³⁵S]GTP γ S binding (Odagaki, Y. (521) 49)

Cerebral infarction

Solifenacin; Muscarinic receptor antagonist; Detrusor overactivity (Suzuki, M. (512) 61)

Cerebral ischemia

Microsphere; BDNF; Synapsin I (Ando, T. (507) 49)

C-fiber

Cough reflex; Rapidly adapting receptor; ATP; Ionotropic purinergic receptor (Kamei, J. (528) 158)

c-fos

Nociceptin; Orphanin FQ; Behavioral sensitization; Nociceptin receptor; Orphanin FQ receptor (Okabe, C. (507) 57)

cAMP; Caudate; Rotation; Dopamine D2 receptor; Striosome; SKF83959 (Wirtshafter, D. (528) 88)

c-fos

Selective serotonin reuptake inhibitor; Ejaculation; Antidepressant; 5-HT_{1A} (de Jong, T.R. (509) 49)

c-Fos

Nitric oxide synthase; Pain; Plasticity; Spinal cord (Pilyavskii, A.I. (521) 70)

Aggression; Sexual behaviour; Neural mechanism; Serotonin; Pharmacology; Male (Rat) (Veening, J.G. (526) 226)

c-Fos protein

5-HT_{1A} receptor; Formalin; F 13640; Morphine; Rat spinal cord (Buritova, J. (514) 121)

CFTR (Cystic fibrosis transmembrane conductance regulator)

Chloride channel; Chloride secretion; KCNN4, Intermediate conductance calcium-sensitive potassium channel; Cystic fibrosis (Murthy, M. (516) 118)

CFU-GM (Granulocyte-macrophage progenitor cell)

Rosiglitazone; Myeloprotection; Stem cell; Neutropenia; Insulin (Djazayeri, K. (522) 122)

cGMP

Soluble guanylate cyclase; Heme; Nitric oxide; BAY 58-2667; BAY 41-2272; YC-1 (Schmidt, P.M. (513) 67)

Adenosine; Calcium; cAMP; GEA 3175; Milrinone; Nitric oxide; Phosphodiesterases; Platelets (Asplund Persson, A. (517) 149)

Dephosphatase; GEA 3175; Nitric oxide; Protein phosphorylation; Relaxation; SNAP (Persson, A.A. (521) 124)

cGMP pathway

C-type natriuretic peptide; Central nervous system; Exocrine pancreatic secretion; Natriuretic peptide receptor A; Natriuretic peptide receptor B; c-ANP-(4-23) amide (Sabbatini, M.E. (524) 67)

cGMP-dependent protein kinase

T cell; Leukocyte; Adhesion molecule; Tumor necrosis factor- α ; E-selectin; ICAM-1 (intercellular adhesion molecule 1) (Wong, D. (514) 91)

cGMP-dependent protein kinase I α

SCH 51866; Sildenafil citrate; Cyclic-nucleotide-gated-channel; K^{+} -efflux (Lusche, D.F. (513) 9)

CGP12177

β_1 -Adrenoceptor; β_4 -Adrenoceptor; Sinoaortic denervation (Santos, I.N. (513) 109)

CGP7930

Positive allosteric modulation; GABA_B receptor; GS39783; Baclofen; Alcohol drinking behavior; Sardinian alcohol-preferring (sP) (Rat) (Orrù, A. (525) 105)

CGRP

Mustard oil; Neurogenic inflammation; Substance P; Mouse (Grant, A.D. (507) 273)

CGRP (calcitonin gene-related peptide) receptor

Gastric damage; Hepatocyte growth factor; COX-2 (cyclooxygenase-2); Adrenomedullin (Cantarella, G. (518) 221)

Channel kinetics

ATP-sensitive K^+ channel; Intracellular Ca^{2+} -activated large-conductance K^+ channel; U-37883A (Teramoto, N. (506) 1)

Channel pore

ATP-sensitive K^+ channels; U-37883A; Voltage-dependent Ca^{2+} channels (Tomoda, T. (524) 1)

Charybdotoxin

Lumiracoxib; K^+ channel; NO-cyclic GMP pathway; Apamin; Margatoxin; Serotonergic system; Opioid receptor (Lozano-Cuenca, J. (513) 81)

Chemical ischemia

BK_{Ca} (large-conductance Ca^{2+} -activated K^+ channel); Cerebral cortex; Excitotoxicity; Neuronal death (Katsuki, H. (508) 85)

Chemokine

Y-40138; TNF- α ; IFN- γ ; IL-4; Pentoxifylline; Anti-TNF- α antibody; Concanavalin A; Hepatitis (Fukuda, T. (523) 137)

Chemokine CCR5 receptor

Human CCR5 transgenic mouse; Receptor occupancy; Pharmacodynamics (Saita, Y. (518) 227)

Chemotaxis

N-formylmethionyl peptide; Neutrophil; human; Superoxide anion generation; Lysozyme release; Receptor binding (Cavicchioni, G. (512) 1)

Chenodeoxycholic acid

Cholesterol 7 α -hydroxylase; CYP7A1; HepG2 cell; Induction; 2,4,6-Trihydroxyacetophenone (Charoenteeraboon, J. (515) 43)

CHF3381

NMDA receptor antagonist; MAO-A inhibitor; Antinociceptive effect; Capsaicin (Bassani, F. (519) 231)

Chick

Carnosine; Hyperactivity; Nitric oxide; Nitric oxide synthase (Tomonaga, S. (524) 84)

Chloride channel

Niflumic acid; Bumetanide; Nifedipine; Pulmonary artery; rat (Oriowo, M.A. (506) 157)

CFTR (Cystic fibrosis transmembrane conductance regulator); Chloride secretion; KCNN4; Intermediate conductance calcium-sensitive potassium channel; Cystic fibrosis (Murthy, M. (516) 118)

Chloride secretion

CFTR (Cystic fibrosis transmembrane conductance regulator); Chloride channel; KCNN4; Intermediate conductance calcium-sensitive potassium channel; Cystic fibrosis (Murthy, M. (516) 118)

Chlorobenzhydryl piperazine

Bradykinin receptor antagonist; Non-peptide; Guinea-pig ileum smooth muscle contraction (Kam, Y.L. (523) 143)

3-Chloro,4-methoxyfendiline

Neocortex; Baclofen; Pre- and postsynaptic GABA_B receptor; (Rat) (Ong, J. (507) 35)

Chlorpheniramine

Experimental allergic rhinitis; Sensitivity of histamine; Passive cutaneous anaphylaxis titer; Mometasone (Tsumuro, T. (524) 155)

Choice

Addiction; Dependence; Behavioral economics; Dopamine; Lateral hypothalamus; Cocaine; Heroin; Prefrontal cortex (Ahmed, S.H. (526) 9)

CHO-K1

Angiotensin II; Angiotensin AT₁ receptor; Internalization; Receptor reserve (Le, M.T. (513) 35)

Cholestasis

Mesenteric vascular bed; α_2 -Adrenoceptor; Clonidine; Nitric oxide; Opioid (Borhani, A.A. (514) 183)

Pruritus; [³⁵S]GTP γ S binding; Opioid system; (Rat) (Inan, S. (518) 182)

Adrenoceptor; Cardiomyopathy; Endogenous opioid peptide; NO (Nitric oxide); Papillary muscle (Ebrahimi, F. (523) 93)

Cholesterol

Erectile dysfunction; Superoxide; NADPH oxidase (Shukla, N. (517) 224)

Cholesterol 7 α -hydroxylase

Chenodeoxycholic acid; CYP7A1; HepG2 cell; Induction; 2,4,6-Trihydroxyacetophenone (Charoenteeraboon, J. (515) 43)

Cholinergic

Islets of Langerhans; Peptide hormone-release; Gene inactivation; Toxin-resistant current; R-type Ca^{2+} channel (Pereverzev, A. (511) 65)

Cholinergic receptor

Receptor subtype; Vascular relaxation; Deoxycholic acid; Cirrhosis (Khurana, S. (517) 103)

Cholinesterase

Endothelium-dependent relaxation; Acetylcholine; RHC-80267; Diacylglycerol lipase; Mesenteric artery (Ghisal, P. (517) 97)

Cholinesterase inhibitor

Alzheimer's disease; Donepezil (E2020); Na^+ channel; K^+ channel (Yu, B. (508) 15)

Chromatin

Tripterine; Systemic lupus erythematosus; Autoantibody; Cytokine; Splenocyte proliferation (Li, H. (512) 231)

Chronic

Intracerebroventricular; Osmotic minipump; Morphine pellet; Naloxone; Withdrawal; Tolerance; (Mice) (Lenard, N.R. (527) 71)

Chronic antidepressant treatment

Animal model of depression; Agonistic behaviour; Social hierarchy; Resident–intruder; Suicide ideation (Mitchell, P.J. (526) 147)

Chronic constriction injury model

2'-deoxyribose-*N*⁶-cyclopentyl-adenosine; 8-methylamino-*N*⁶-cyclopentyl-adenosine; Mechanical paw pressure threshold; Pharmacokinetics; Population pharmacokinetic/pharmacodynamic analysis (Schaddelee, M.P. (514) 131)

Chronic exercise

Pulmonary hypertension; Vasorelaxation; Vasoconstriction (Goret, L. (527) 121)

(Chronic hypoxic rats)

Molsidomine; Sildenafil; Pulmonary hypertension; Acetylcholine; Atrial natriuretic peptide (Andersen, C.U. (510) 87)

Chronic lymphocytic leukemia

Alemtuzumab; Apoptosis (Nückel, H. (514) 217)

Chronic obstructive pulmonary disease (COPD)

Azithromycin; Neutrophil; Inflammation marker; Cytokine (Parnham, M.J. (517) 132)

Chronic treatment

GABA_B receptor; GTPγS binding; SCH 50,911; (Mice) (Pibiri, F. (515) 94)

Chymase

Intraocular pressure; Endothelin-1 (1–31); Endothelin ET_A receptor (Konno, T. (524) 132)

Cigarette smoke

Tachykinins; Tachykinin NK receptors; SSR240,600; SR48,968; SR142,801 (Tagawa, A. (507) 223)

Cyclooxygenase-2; Colon cancer (Liu, E.S.L. (518) 47)

5-LOX; Colon cancer; Angiogenesis; MMP; VEGF1 (Ye, Y.N. (519) 52)

Ciglitazone

Peroxisome proliferator-activated receptor γ; Cyteinyl-leukotrienes; Mast cell; Independence (Okuyama, K. (521) 21)

Cilostamide

Glucagon; Dobutamide; Phosphodiesterase inhibitor; Rat ventricle; Cardiac contractility; cAMP (Juan-Fita, M.J. (512) 207)

Circadian

Suprachiasmatic; Neurokinin; Raphe; Depression (Gannon, R.L. (527) 86)

Circadian rhythm

Cortistatin; Sleep–waking cycle; Memory evocation; cAMP (Méndez-Díaz, M. (507) 21)

EEG (Electroencephalogram); REM (Rapid eye movement) suppression; Desipramine; Citalopram; Fluoxetine; WKY (rat) (Ivarsson, M. (522) 63)

Cirrhosis

Receptor subtype; Vascular relaxation; Cholinergic receptor; Deoxycholic acid (Khurana, S. (517) 103)

Cisplatin

Nausea; Emesis; 5-HT₃ receptor; Tachykinin NK₁ receptor; Anti-emetic (Lau, A.H.Y. (506) 241)

Sensory neuropathy; Neuropeptide release (Horvath, P. (507) 247)

Citalopram

EEG (Electroencephalogram); REM (Rapid eye movement) suppression; Desipramine; Fluoxetine; Circadian rhythm; WKY (rat) (Ivarsson, M. (522) 63)

Citric acid and cough

Substance P; Bradykinin (El-Hashim, A.Z. (513) 125)

c-Jun

Rilmenidine; Clonidine; α-Methylnorepinephrine; Rostral ventrolateral medulla; Nucleus tractus solitarius; SHRs (spontaneously hypertensive rats) (Wang, X. (514) 191)

Manganese(II); Apoptosis; JNK (Jun N-terminal kinase); p38 MAPK (mitogen-activated protein kinase); p53; p21^{WAF1/CIP1} (Suzuki, T. (525) 48)

c-Jun NH₂-terminal kinase

Asthma; Airway inflammation; Airway smooth muscle; Bronchial responsiveness (Nath, P. (506) 273)

Cl[−] channel

Carchol; Rat colon (Schultheiss, G. (512) 67)

Cleavage

Luteolin; Apoptosis; Caspase; Mitochondria; Bcl-2; Bcl-X_L; Bad; Bax (Cheng, A.-C. (509) 1)

Clomethiazole

Body temperature; Tolerance; Pharmacodynamic interaction; GABA_A (γ-Aminobutyric acid_A) receptor; 5-HT_{1A} (5-Hydroxytryptamine_{1A}) receptor; NMDA (N-methyl-D-aspartate) receptor; Hypothermia (Visser, S.A.G. (512) 139)

Clomipramine

Stressor; Electric foot-shock; Corticosterone; Depression; Gender; Forced swim test (Consoli, D. (520) 100)

Clonazepam

Apoptosis; Necrosis; Mitochondria; Calcium ionophore; Bcl-2 (Hamahata, K. (516) 187)

Clonidine

Guanine nucleotide binding protein; G protein γ₂ subunit; Opioid receptor agonist; Cannabinoid receptor agonist; Antinociception (Varga, E.V. (508) 93)

Cholestasis; Mesenteric vascular bed; α₂-Adrenoceptor; Nitric oxide; Opioid (Borhani, A.A. (514) 183)

Rilmenidine; α-Methylnorepinephrine; Rostral ventrolateral medulla; Nucleus tractus solitarius; SHRs (spontaneously hypertensive rats); c-Jun (Wang, X. (514) 191)

Ultrasonic vocalization; α₂-adrenoceptor; ST-91 (2-[2,6-diethylphenylamino]-2-imidazole) (Krall, C.M. (517) 200)

NMDA receptor antagonist; Memantine; Neramexane; Morphine analgesia; Rat sciatic nerve; Allodynia; Experimental nerve injury (Malyshkin, A.A. (519) 80)

Cloning

TRPV1 (transient receptor potential vanilloid receptor-1); Dog; Ganglia; FLIPR (fluorescence imaging plate reader); Capsaicin (Phelps, P.T. (513) 57)

5-HT_{2A} receptor; 5-HT_{2B} receptor; Canine; Radioligand binding (Bona-venture, P. (513) 181)

Clozapine

Olanzapine; Thioridazine; Acetylcholine; Muscarinic receptors (Johnson, D.E. (506) 209)

Schizophrenia; NMDA receptor; Phencyclidine; Cognition; Haloperidol (Hashimoto, K. (519) 114)

Cocaethylene

Sheep Purkinje fibre; Phencyclidine; 'Ecstasy'; Cocaine; Δ⁹-tetrahydrocannabinol; (+)-methamphetamine; Morphine (Sheridan, R.D. (511) 99)

Cocaine

8-Carboxamidocyclazocine; Kappa agonist; Drug self-administration; Monkey; rhesus (Stevenson, G.W. (506) 133)

Substance abuse; Serotonin; Dopamine; Nucleus accumbens; Microdialysis (Andrews, C.M. (508) 123)

Nicotine; Behavioral conditioning; Development; Substance abuse; Rat (McMillen, B.A. (509) 161)

Sheep Purkinje fibre; Phencyclidine; ‘Ecstasy’; Cocaethylene; Δ^9 -tetrahydrocannabinol; (+)-methamphetamine; Morphine (Sheridan, R.D. (511) 99)

CART; Corticosterone; Dopamine; Nucleus accumbens (Hunter, R.G. (517) 45)

5-HT₃ receptor; Cannabinoid receptor ligand; Locomotor activity (Przeźga-łiński, E. (517) 68)

Butyrylcholinesterase; Ecgonine methylester; Cymserine; Benzoyllecgonine; (Rat) (Carmona, G.N. (517) 186)

Addiction; Dependence; Behavioral economics; Choice; Dopamine; Lateral hypothalamus; Heroin; Prefrontal cortex (Ahmed, S.H. (526) 9)

Conditioned drug cues; Extinction; Heroin; Incubation; Reinstatement; Relapse; Review; Stress (Bossert, J.M. (526) 36)

Alcohol; Drug addiction; Nicotine; Opiates; Pharmacotherapy (Heidbreder, C. (526) 101)

Addiction; Amygdala; Conditioning; Cue; Reinstatement; Relapse (See, R.E. (526) 140)

Second-order schedules of reinforcement; Amygdala; Nucleus accumbens; Dopamine; Glutamate (Di Ciano, P. (526) 186)

Alcohol; *Aph-1b*; APO-SUS; APO-UNSUS; γ -secretase; Self-administration; Tyrosine hydroxylase (Ellenbroek, B.A. (526) 251)

Cocaine antagonist

GBR 12935 derivative; Dopamine transporter; Monoamine uptake; Hydrogen bonding; Striatum; (Rat) (Zhen, J. (506) 17)

Cochlear protection

Edaravone; Antioxidant; Reactive oxygen species; Acoustic trauma; 4-HNE; (4-hydroxy-2-nonenal) (Tanaka, K. (522) 116)

Cognition

Depression; Learning and memory; Mood; Open space swim test; Protein kinase C (Sun, M.-K. (512) 43)

Schizophrenia; NMDA receptor; Phencyclidine; Clozapine; Haloperidol (Hashimoto, K. (519) 114)

Cold allodynia

Neuropathic pain; Phentolamine; Prazosin; Yohimbine; α -adrenoreceptor (Kim, S.K. (523) 64)

Colitis

Histamine H₄ receptor antagonist; JNJ 777120; JNJ 10191584; Inflammatory bowel disease; Neutrophil; Tumour necrosis factor- α (Varga, C. (522) 130)

PARP-1; GPI 15427; GPI 16539; Myeloperoxidase; Ischemia/Reperfusion (Di Paola, R. (527) 163)

Collagen

Dimer of platelet-derived growth factor-B; Smooth muscle α -actin; Endothelin-1; L-Methionine; L-Cysteine (Matsui, H. (509) 31)

Hypoxic cor pulmonale; Angiotensin II-receptor blocker; Olmesartan medoxomil; Hypoxia; Remodeling; Brain natriuretic peptide; TGF- β (Nakamoto, T. (528) 43)

Collagen-induced arthritis

p38; Tumor necrosis factor- α ; Interleukin-1; Adjuvant-induced arthritis (Wada, Y. (506) 285)

Colon

Streptozotocin-diabetes; Ileum; Calcium; Motility; (rat) (Forrest, A. (509) 77)

Colon cancer

Cyclooxygenase-2; Cigarette smoke (Liu, E.S.L. (518) 47)

5-LOX; Cigarette smoke; Angiogenesis; MMP; VEGF1 (Ye, Y.N. (519) 52)

Colonic secretion

Ontogeny; Ion transport development; Bethanechol; Histamine; 5-Hydroxytryptamine (Mrnka, L. (516) 268)

Comet assay

Luteolin; Human lung squamous carcinoma cell line CH27; Apoptosis; Cell cycle; DNA repair enzyme (Leung, H.W.-C. (508) 77)

Common cold

Asthma; ICAM-1 (intercellular adhesion molecule-1); Proton pump; Lansoprazole (Sasaki, T. (509) 201)

Competitive inhibitory effect

Ramatroban; CRTH2 (Chemoattractant receptor-homologous molecule expressed on Th2 cells); Indomethacin; 15d-PGJ₂ (15-deoxy- $\Delta^{12,14}$ -PGJ₂) (Sugimoto, H. (524) 30)

Composition

Spanish red wine; Polyphenol; Vasodilation; Rat aorta; Endothelium (Padilla, E. (517) 84)

Compound 48/80

Sepsis; Mast cell; Neutrophil migration (Carvalho, M. (525) 161)

Compulsion

Drug addiction; Habit; Impulsivity; Sensitization; Tolerance; Allostasis; Prefrontal cortex; Orbitofrontal cortex; Dorsal striatum; Nucleus accumbens (Vanderschuren, L.J.M.J. (526) 77)

Concanavalin A

Y-40138; TNF- α ; IFN- γ ; IL-4; Chemokine; Pentoxifylline; Anti-TNF- α antibody; Hepatitis (Fukuda, T. (523) 137)

Conditioned drug cues

Cocaine; Extinction; Heroin; Incubation; Reinstatement; Relapse; Review; Stress (Bossert, J.M. (526) 36)

Conditioned fear

Dopamine D1/5 receptor; Dopamine D2 receptor; Anxiety (Inoue, T. (519) 253)

Conditioned place aversion

Dopamine; G-protein-activated inwardly rectifying potassium channel; Morphine; Withdrawal (Sato, M. (519) 215)

Conditioned place preference

Δ^9 -THC; i.c.v. self-administration (Bairda, D. (506) 63)

Cyclosporin A; Morphine; L-NAME (*N*^G-nitro-L-arginine methyl ester); Aminoguanidine; Nitric oxide; Neuroimmunophilin ligands (Langroudi, R.M. (507) 107)

Agmatine; Morphine; Imidazoline receptor (Wei, X.-L. (515) 99)

GABA receptor; Morphine; Ventral tegmental area; (Rat) (Sahraei, H. (524) 95)

Conditioning

CB₁; Endocannabinoid; Motivation; Food consumption; Knock-out (Hölter, S.M. (510) 69)

Addiction; Amygdala; Cocaine; Cue; Reinstatement; Relapse (See, R.E. (526) 140)

Metabotropic glutamate receptor; Glutamate; Reinstatement; Self-administration; Alcohol (Bäckström, P. (528) 110)

Conflict study

Frustration–aggression analysis; Entitlement systems analysis (de Gaay Fortman, B. (526) 2)

Confocal microscopy

Quinapril; Atorvastatin; Apoptosis; Hypertension; Morphometry; Vascular reactivity (Yang, L. (518) 145)

Congestive heart failure

Carvedilol; α_1 -Adrenoceptor; β -Adrenoceptor; Lusitropic; Inotropic (Qvigstad, E. (516) 51)

Conivaptan hydrochloride

Myocardial infarction; Vasopressin; Vasopressin V_{1A} receptor; Vasopressin V₂ receptor; Aquaretic effect; Hemodynamics (Wada, K.-i. (507) 145)

 ω -conotoxin CVID

α_2 -adrenoceptor; Dexmedetomidine; Mechanical hypersensitivity; N-type Ca²⁺ channel (Blake, D.W. (506) 221)

Conotoxin p-TIA

α_1 -adrenoceptor; Vas deferens; Spleen; Aorta (Lima, V. (508) 183)

Constitutive activity

Adenosine A₁ receptor; Inverse agonism; G14T mutant; “Locked-on” phenotype (de Ligt, R.A.F. (510) 1)

Contextual fear conditioning

Anxiety; Group I mGlu receptor; Plus maze; Fear potentiated startle; Geller–Seifter test (Pietraszek, M. (514) 25)

Contractile response

Renal hypertension; Ouabain; Membrane depolarization; Endothelium (Molin, J.C. (522) 94)

Contractility

Levosimendan; Acidosis; Epinephrine; Guinea pig; cAMP (Toller, W. (507) 199)

β -adrenoceptor; Isoprenaline; Cardiac myocyte (Stones, R. (512) 117)

Contraction

ATP; P2X receptor; P2Y receptor; Mouse stomach; Relaxation (Mulè, F. (513) 135)

Convulsion

New quinolone; Nonsteroidal anti-inflammatory drug; Drug interaction; GABA_A receptor (Yoshino, T. (507) 69)

Convulsions

Swim stress; ($\pm$)-8-hydroxy-2-(di-*n*-propylamino) tetralin hydrobromide (8-OH-DPAT); WAY-100635; 1-(2,5-dimethoxy-4-iodophenyl)-2-amino-propane (DOI); Ketanserin (Peričić, D. (527) 105)

Cooperativity

Melanocortin receptor; Radioligand binding; Melanocyte stimulating hormone; Sf9 cells; Calcium (Kopanchuk, S. (512) 85)

COPD (chronic obstructive pulmonary disease)

Leukotriene receptor antagonist; Airway mucus; Secretion; Asthma (Schmidt, R. (527) 150)

Corin

Brain natriuretic peptide; Neutral endopeptidase; Myocardial necrosis (Jiang, W. (507) 153)

Coronary circulation

Endothelial function; Myocardial infarction; Remodeling; Vasodilatation; Nitric oxide; Superoxide (Berges, A. (516) 60)

Aging; Vasoactive agent; Endothelial function; Nitric oxide; Prostaglandin (Ishihata, A. (523) 119)

Coronary vasoconstriction; Myocardial ischemia; Endothelin receptor; Endothelial dysfunction (Climent, B. (524) 102)

Coronary vasoconstriction

Coronary circulation; Myocardial ischemia; Endothelin receptor; Endothelial dysfunction (Climent, B. (524) 102)

Cortical neuron, rat

Honokiol; Neurite outgrowth; ERK1/2; CaMK II (Zhai, H. (516) 112)

5-HT₃ receptor antagonist; MDL72222; Y25130; 5-HT₃ receptor; β -Amyloid protein; Neurotoxicity; Neuroprotection (Ju Yeon Ban (520) 12)

Cortical slice

Epileptiform activity; NMDA receptor; Spermine; N¹-dansyl-spermine; DBA/2 mice (Kirby, B.P. (524) 53)

Corticosteroid

Asthma; Late phase response; Mast cell; Inflammation; Cytokine (Nabe, T. (521) 144)

Corticosterone

CART; Cocaine; Dopamine; Nucleus accumbens (Hunter, R.G. (517) 45)

ACTH (adrenocorticotrophic hormone); GABA; Paraventricular nucleus; Stress; L-838,417; Diazepam; Zolpidem; Zopiclone; (Mouse) (Mikkelsen, J.D. (519) 223)

Stressor; Electric foot-shock; Clomipramine; Depression; Gender; Forced swim test (Consoli, D. (520) 100)

Agonistic; Cortisol; Serotonin; Social; Stress (Summers, C.H. (526) 21)

Amygdala; Endocannabinoid; 2-arachidonylglycerol (Hill, M.N. (528) 99)

Corticotropin releasing factor

Stress; Behavior; Amygdala; Antagonist; (Rat) (Gehlert, D.R. (509) 145)

Urocortin; Mean arterial pressure; Mean circulatory filling pressure; Venous; Capacitance vessel (Abdelrahman, A.M. (510) 107)

Cortisol

11-Deoxycortisol; GABA_A receptor; Neuroactive steroid; 3 α ,5 β -Reduced cortisol; Tetrahydrodeoxycorticosterone (Penland, S.N. (506) 129)

Agonistic; Corticosterone; Serotonin; Social; Stress (Summers, C.H. (526) 21)

Cortistatin

Circadian rhythm; Sleep–waking cycle; Memory evocation; cAMP (Méndez-Díaz, M. (507) 21)

Cough reflex

C-fiber; Rapidly adapting receptor; ATP; Ionotropic purinergic receptor (Kamei, J. (528) 158)

COX (cyclooxygenase)

GM-CSF (granulocyte macrophage-colony stimulating factor); NO-NSAIDs (nitric oxide-donating non-steroidal anti-inflammatory drugs); PGE₂ (prostaglandin E₂); Synoviocytes (Zacharowski, P. (508) 7)

COX-2

Prostaglandin; Ulcer healing; Omeprazole; Misoprostol; Celecoxib (Poonam, D. (519) 277)

Plaunotol; Gastric epithelial cells; NF- κ B; CRE (Fu, H.y. (524) 38)

COX-2 (cyclooxygenase-2)

Gastric damage; Hepatocyte growth factor; Adrenomedullin; CGRP (calcitonin gene-related peptide) receptor (Cantarella, G. (518) 221)

CP-96,345

Forced swim test; Depression; Neurokinin receptor antagonist; SR 48968; SR 142801 (Dableh, L.J. (507) 99)

Craving

Dopamine; Addiction; Human; Attention; Reward (Franken, I.H.A. (526) 199)

CRE

COX-2; Plaunotol; Gastric epithelial cells; NF- κ B (Fu, H.y. (524) 38)

Cross-tolerance

Anandamide; Cannabinoid; Methanandamide; Tetrahydrocannabinol; Tolerance (Wiley, J.L. (510) 59)

Croton oil

Monogalactosyldiglyceride; Inflammation; Carrageenan; Cyclooxygenase; Lipoyxygenase (Bruno, A. (524) 159)

CRTH2 (Chemoattractant receptor-homologous molecule expressed on Th2 cells)

Ramatroban; Indomethacin; 15d-PGJ₂ (15-deoxy- $\Delta^{12,14}$ -PGJ₂); Competitive inhibitory effect (Sugimoto, H. (524) 30)

Cry j 2

Pollinosis; Oral tolerance; Immunoprophylaxis; T cell epitope (Murasugi, T. (510) 143)

C-type natriuretic peptide

Atrial natriuretic peptide; Brain natriuretic peptide; Cyclic GMP protein kinase; (Rabbit) (Zhang, Q. (510) 209)

Central nervous system; Exocrine pancreatic secretion; cGMP pathway; Natriuretic peptide receptor A; Natriuretic peptide receptor B; c-ANP-(4-23) amide (Sabbatini, M.E. (524) 67)

Cue

Addiction; Amygdala; Cocaine; Conditioning; Reinstatement; Relapse (See, R.E. (526) 140)

Curcumin

Forced swimming; Tail suspension; Locomotor activity; Antidepressant-like effect; Monoamine; Monoamine oxidase; Mice (Xu, Y. (518) 40)

Cutaneous barrier disruption

Prostaglandin; Transepidermal water loss; Mechanical scratching (Honma, Y. (518) 56)

(+)-Cyclazosin

α_1 -Adrenoceptor subtype; α_{1B} -Adrenoceptor; Rabbit aorta; α_1 -Adrenoceptor antagonist; α_{1B} -Adrenoceptor antagonist (Marucci, G. (522) 100)

Cyclic AMP

Phosphodiesterase 3; Trequinsin; Formalin test (Torres-López, J.E. (519) 75)

Isoprostane; K⁺ channel; Protein kinase A; Rho/Rho-kinase (Zhang, Y. (520) 22)

Melatonin; Nicotinic acetylcholine receptor; α -Bungarotoxin; Myotube culture; Calmodulin (de Almeida-Paula, L.D. (525) 24)

Cyclic GMP

Sildenafil; Protein kinase G; K⁺ channel; Peripheral processing (Ambriz-Tututi, M. (512) 121)

Acetylcholine; Nitric oxide; Potassium channel; Prostanoid; Endothelial muscarinic receptor; Horse dorsal penile vein (Martínez, A.C. (515) 150)

Sildenafil; Protein kinase G; K⁺ channel; Spinal processing (Araiza-Saldaña, C.I. (527) 60)

Cyclic GMP protein kinase

Atrial natriuretic peptide; Brain natriuretic peptide; C-type natriuretic peptide; (Rabbit) (Zhang, Q. (510) 209)

Cyclic nucleotide

Cerebral circulation; Signal transduction; Nitric oxide (Baranov, D. (525) 112)

Cyclic peptide

Binding site; G protein-coupled receptor; Icatibant; Site-directed mutagenesis (Cucchi, P. (528) 7)

Cyclic-nucleotide-gated-channel

SCH 51866; Sildenafil citrate; cGMP-dependent protein kinase I α ; K⁺-efflux (Lusche, D.F. (513) 9)

Cyclin D1

YC-1; Mesangial cells; Proliferation; p38 mitogen-activated protein kinase (Chiang, W.-C. (517) 1)

Cyclin D1 expression

Vascular smooth muscle cell, human; ERK (extracellular signal regulated kinase) (Shukla, N. (509) 21)

 β -Cyclodextrin

Cytotoxicity; Dehydrocrotonin; Hepatocyte; V79 cell (Corrêa, D.H.A. (510) 17)

Cyclooxygenase

Inducible nitric oxide synthase; Pyrexia; Interaction; Isobologram (Bhat, A.-S. (511) 137)

Stereotaxic surgery; Hippocampus; Morris water maze (Sharifzadeh, M. (511) 159)

Angiotensin II; Eicosanoid; Nitric oxide; Cytochrome P₄₅₀ epoxygenase; TXA₂/PGH₂ receptor (Jerez, S. (520) 127)

Monogalactosyldiglyceride; Inflammation; Croton oil; Carrageenan; Lipoyxygenase (Bruno, A. (524) 159)

Cyclooxygenase inhibitor

8-Isoprostaglandin F_{2 α} ; Prostaglandin E₂; Carrageenan-induced air pouch model; Vitamin E (Çiçek Özdöl, N. (506) 189)

Cyclooxygenase-2

Heat shock factor; Heat shock protein 72; Nuclear factor- κ B; Transcription factor (Ialenti, A. (509) 89)

Adjuvant-induced arthritis; Non-steroidal anti-inflammatory drug; Celecoxib (Noguchi, M. (513) 229)

Prostaglandin E_2 ; Oxygen–glucose deprivation; Preconditioning; Ca^{2+} ; Primary cortical cultures (Gendron, T.F. (517) 17)

Cigarette smoke; Colon cancer (Liu, E.S.L. (518) 47)

Inflammation; Carrageenan-induced paw edema; Air pouch model; THP-1 cell line (Yin, L.-L. (520) 172)

Cyclopiazonic acid

Rat portal vein; Capacitative Ca^{2+} entry; Store operated Ca^{2+} entry; Niflumic acid (Burt, R.P. (510) 97)

Cyclosporin A

Morphine; L-NAME (N^G -nitro-L-arginine methyl ester); Aminoguanidine; Nitric oxide; Neuroimmunophilin ligands; Conditioned place preference (Langroudi, R.M. (507) 107)

Neonatal rat cardiomyocyte; Ischemia–reperfusion; Electrophysiology; Cell contraction; Protein release; Heat shock protein; Mitochondria (Bès, S. (511) 109)

Neutrophil; MCP-1 (Monocyte chemoattractant protein-1); Dexamethasone; Acute lung injury; Tacrolimus (Koshika, T. (515) 169)

Cycteinyll-leukotrienes

Ciglitazone; Peroxisome proliferator-activated receptor γ ; Mast cell; Independence (Okuyama, K. (521) 21)

Cymserine

Cocaine; Butyrylcholinesterase; Ecgonine methylester; Benzoylcegonine; (Rat) (Carmona, G.N. (517) 186)

CYP2C11

Endotoxin; CYP3A2; P-glycoprotein; Antipyrine clearance; (Rat) (Ueyama, J. (510) 127)

CYP3A

Pregnane-X-receptor; Forskolin (Dowless, M.S. (512) 9)

CYP3A2

Endotoxin; CYP2C11; P-glycoprotein; Antipyrine clearance; (Rat) (Ueyama, J. (510) 127)

CYP7A1

Chenodeoxycholic acid; Cholesterol 7 α -hydroxylase; HepG2 cell; Induction; 2,4,6-Trihydroxyacetophenone (Charoenteeraboon, J. (515) 43)

L-Cysteine

Dimer of platelet-derived growth factor-B; Collagen; Smooth muscle α -actin; Endothelin-1; L-Methionine (Matsui, H. (509) 31)

Cysteine protease

Cardiovascular; Heart; Ischemia and reperfusion; Myocardial infarction; Calpain inhibitor (Khalil, P.N. (528) 124)

Cystic fibrosis

CFTR (Cystic fibrosis transmembrane conductance regulator); Chloride channel; Chloride secretion; KCNN4 Intermediate conductance calcium-sensitive potassium channel (Murthy, M. (516) 118)

Cystic fibrosis transmembrane conductance regulator

Tetramethylpyrazine; cAMP; K^+ channel; Membrane permeabilization; Caco-2 cell line (Zhu, J.X. (510) 187)

Cytochrome

Linopirdine; M-channel; Liver; Brain (Wolff, C. (518) 10)

Cytochrome P450 (CYP)

Tumor necrosis factor- α (TNF- α); P-glycoprotein; Endotoxin; TNF- α knockout mice (Miyoshi, M. (507) 229)

Cytochrome P₄₅₀ epoxigenase

Angiotensin II; Eicosanoid; Nitric oxide; Cyclooxygenase; TXA₂/PGH₂ receptor (Jerez, S. (520) 127)

Cytokine

Tripterine; Systemic lupus erythematosus; Chromatin; Autoantibody; Splenocyte proliferation (Li, H. (512) 231)

Diabetes; Histidine; Carnosine; Hyperlipidemia (Lee, Y.-t. (513) 145)

Arthritis; Statin; Inflammation; Nociception (Barsante, M.M. (516) 282)

Azithromycin; Neutrophil; Chronic obstructive pulmonary disease (COPD); Inflammation marker (Parnham, M.J. (517) 132)

Asthma; Late phase response; Mast cell; Inflammation; Corticosteroid (Nabe, T. (521) 144)

Cytotoxicity

β -Cyclodextrin; Dehydrocrotonin; Hepatocyte; V79 cell (Corrêa, D.H.A. (510) 17)

D2 receptors

Haloperidol; Streptozotocin; γ -hydroxybutyric acid; Dizocilpine (Sevak, R.J. (517) 64)

DBA/2 mice

Cortical slice; Epileptiform activity; NMDA receptor; Spermine; N¹-dansyl-spermine (Kirby, B.P. (524) 53)

Defense

Aggression; Serotonin; Frustration; Alcohol; Dopamine; GABA; Neuroleptics; Benzodiazepines (de Almeida, R.M.M. (526) 51)

Dehydrocrotonin

β -Cyclodextrin; Cytotoxicity; Hepatocyte; V79 cell (Corrêa, D.H.A. (510) 17)

Delayed antagonism

Efficacy; Antinociception; Kappa-opioid (Husbands, S.M. (509) 117)

Delayed outward rectifier

Azimilide; Dofetilide; HMR 1556; Ischemia–reperfusion; (Guinea-pig) (Ducroq, J. (518) 165)

Deltamethrin

Pain; Dorsal root ganglion; Nociceptor; Sodium channel (Dekker, L.V. (528) 52)

Denervation

Vas deferens; Sarco(endo)plasmic reticulum (Ca^{2+} – Mg^{2+})ATPase; Plasma membrane (Ca^{2+} – Mg^{2+})ATPase; Ryanodine receptor; Calcium (Quintas, L.E.M. (525) 54)

Deoxycholic acid

Receptor subtype; Vascular relaxation; Cholinergic receptor; Cirrhosis (Khurana, S. (517) 103)

Deoxycorticosterone acetate

5-hydroxytryptamine; Experimental hypertension; 5-HT₂ receptor; Mianserin (Silva, A.L.S. (518) 152)

11-Deoxycortisol

Cortisol; GABA_A receptor; Neuroactive steroid; 3 α ,5 β -Reduced cortisol; Tetrahydrodeoxycorticosterone (Penland, S.N. (506) 129)

2'-deoxyribose-*N*⁶-cyclopentyl-adenosine

Chronic constriction injury model; 8-methylamino-*N*⁶-cyclopentyl-adenosine; Mechanical paw pressure threshold; Pharmacokinetics; Population pharmacokinetic/pharmacodynamic analysis (Schaddelee, M.P. (514) 131)

Dependence

Etizolam; Benzodiazepines; GABA_A receptor; Tolerance; Gene expression (Sanna, E. (519) 31)

Addiction; Behavioral economics; Choice; Dopamine; Lateral hypothalamus; Cocaine; Heroin; Prefrontal cortex (Ahmed, S.H. (526) 9)

Dephostatin

cGMP; GEA 3175; Nitric oxide; Protein phosphorylation; Relaxation; SNAP (Persson, A.A. (521) 124)

Depression

GABA_A receptor; HEK 293 cell; Flumazenil; GABA (γ -aminobutyric acid); [³H]flunitrazepam binding (Perićić, D. (507) 7)

Forced swim test; Neurokinin receptor antagonist; CP-96,345; SR 48968; SR 142801 (Dableh, L.J. (507) 99)

Cognition; Learning and memory; Mood; Open space swim test; Protein kinase C (Sun, M.-K. (512) 43)

Acetylcholine nicotinic receptor; Antidepressant; Imipramine; Dopamine-mimetic-induced locomotor stimulation; β -adrenoceptor down-regulation (Popik, P. (515) 128)

OPC-14523; Serotonin (Jordan, S. (517) 165)

Stressor; Electric foot-shock; Corticosterone; Clomipramine; Gender; Forced swim test (Consoli, D. (520) 100)

Circadian; Suprachiasmatic; Neurokinin; Raphe (Gannon, R.L. (527) 86)

desArg⁹bradykinin

Type 1 diabetes; Non-obese diabetic mice; Hyperalgesia; Kinin; Bradykinin B₁ receptor; R-715; R-954 (Gabra, B.H. (514) 61)

Desensitization

Human AMPA-type receptor; Propofol; Patch-clamp; Fast solution exchange (Krampfl, K. (511) 1)

Nicotine; Acetylcholine; Nicotinic receptor; Smoking; Phosphorylation (Marszalec, W. (514) 83)

GF 109203X; Airway smooth muscle; Protein kinase C; β -Adrenoceptor (Boterman, M. (516) 86)

α_1 -adrenoceptor; Receptor phosphorylation; Protein kinase C; Protein phosphatase; Phosphatidylinositol 3-kinase (Alcántara-Hernández, R. (525) 18)

Desipramine

Unpredictable chronic mild stress; Tramadol; Pindolol; Yohimbine (Yalcin, I. (514) 165)

EEG (Electroencephalogram); REM (Rapid eye movement) suppression; Citalopram; Fluoxetine; Circadian rhythm; WKY (rat) (Ivarsson, M. (522) 63)

Desoxypeganine

Ethanol preference; Galanthamine; Alko alcohol (AA) rat (Doetkotte, R. (522) 72)

DETA/NO

YC-1; Soluble guanylate cyclase activator; Nitric oxide donor; Myometrium (Demirkoprulu, N. (517) 240)

Detrusor contraction

Juvenile pig; Propiverine and metabolites (Wuest, M. (524) 145)

Detrusor overactivity

Solifenacin; Muscarinic receptor antagonist; Cerebral infarction (Suzuki, M. (512) 61)

Development

Nicotine; Cocaine; Behavioral conditioning; Substance abuse; Rat (McMillen, B.A. (509) 161)

Epileptic seizure; Cerebral cortex; NMDA receptor antagonist; (Rat) (Šlamberová, R. (516) 10)

Dexamethasone

Organ culture; Endothelium-dependent relaxation (Murata, T. (515) 134)

Neutrophil; MCP-1 (Monocyte chemoattractant protein-1); Acute lung injury; Cyclosporin A; Tacrolimus (Koshika, T. (515) 169)

Multidrug resistance; Polymorphism; Methotrexate (Pawlik, A. (528) 27)

Dexfenfluramine

Obesity; Overweight; Energy balance; Oleoyl-estrone; Sibutramine; Phen-termine (Ferrer-Lorente, R. (513) 243)

Dexmedetomidine

α_2 -adrenoceptor; ω -conotoxin CVID; Mechanical hypersensitivity; N-type Ca²⁺ channel (Blake, D.W. (506) 221)

Atipamezole; Animal behaviour; Social conflict; Aggression (Votava, M. (523) 79)

Dextromethorphan

Morphine; Naltrexone; Mecamylamine; Bupropion; Opioid withdrawal (Taraschenko, O.D. (513) 207)

Diabetes

Cardiac; Hypertrophy; PPAR γ ; Troglitazone; Protein kinase C (Bell, D. (508) 69)

Mesenteric vascular bed; Nitric oxide; Magnesium; Endothelium dysfunction; (Rat) (Soltani, N. (508) 177)

Resiniferatoxin; Sensory nerve; Dipeptidyl peptidase IV; (Zucker Diabetic Fatty rat) (Gram, D.X. (509) 211)

VEGF (vascular endothelial cell growth factor); Angiogenesis; Calcium dobesilate; (Rat) (Lameynardie, S. (510) 149)

Celecoxib; Microparticle; Retinal delivery; Oxidative stress (Ayalasomaya-jula, S.P. (511) 191)

Histidine; Carnosine; Hyperlipidemia; Cytokine (Lee, Y.-t. (513) 145)

Cataract; Hyperglycemia; Hyperlipidemia; Lipid peroxide (Yoshida, M. (513) 159)

Diallyl trisulfide; Garlic oil; Glycemic control; Streptozotocin; (Rat) (Liu, C.-T. (516) 165)

Adiponectin; Metformin; AMP activated protein kinase; Glucose; Adipocyte (Huypens, P. (518) 90)

Hypertension; Angiotensin converting enzyme inhibition; Vasopeptidase inhibition; Cardiomyopathy (Grönholm, T. (519) 267)

SSAO (Semicarbazide-sensitive amine oxidase); Monoamine oxidase; Insulin; Adipose tissue (Visentin, V. (522) 139)

Liver; NF- κ B; Thioacetamide; Tissue repair (Devi, S.S. (523) 127)

Oxycodone; κ -Opioid receptor; Hyperalgesia; Antinociception (Nozaki, C. (524) 75)

Diabetes (and its complications)

Ozone; Diabetic foot; Oxidative stress; Antioxidant defense system (Martínez-Sánchez, G. (523) 151)

Diabetes mellitus

Endothelial dysfunction; NAD(P)H oxidase; Oxygen radical; Beta 1-adrenoceptor antagonist; Angiotensin AT₁ receptor antagonist (Dorenkamp, M. (520) 179)

Diabetic foot

Ozone; Diabetes (and its complications); Oxidative stress; Antioxidant defense system (Martínez-Sánchez, G. (523) 151)

Diabetic gastroparesis

Postprandial hypertriglyceridemia; *Rheum palmatum* L.; Domperidone; Atropine (Xie, W. (510) 113)

Diabetic retinopathy

Angiotensin; Electroretinogram; Olmesartan medoxomil; Oxygen induced retinopathy (Nakamura, H. (512) 239)

Diacylglycerol lipase

Endothelium-dependent relaxation; Acetylcholine; RHC-80267; Cholinesterase; Mesenteric artery (Ghisal, P. (517) 97)

Diacylglycerol lipase: Sympatho-adrenomedullary outflow

Brain; Bombesin BB₂ receptor; Phospholipase C (Shimizu, T. (514) 151)

Diallyl trisulfide

Diabetes; Garlic oil; Glycemic control; Streptozotocin; (Rat) (Liu, C.-T. (516) 165)

Diastole

Prostaglandin; Vasodilatation; Adenosine; Nitric oxide (Kisch-Wedel, H. (517) 208)

Diazepam

GABA_A receptor; HEK 293 cell; Flumazenil; GABA (γ -aminobutyric acid); [³H]flunitrazepam binding (Peričić, D. (507) 7)

Grooming behaviour; Mice; Anxiety; GABA; Pentylentetrazole (Kalueff, A.V. (508) 147)

Flavonoid; Hesperidin; Synergy; Sedation; Sleep-enhancing action (Fernández, S.P. (512) 189)

ACTH (adrenocorticotrophic hormone); Corticosterone; GABA; Paraventricular nucleus; Stress; L-838,417; Zolpidem; Zopiclone; (Mouse) (Mikkelsen, J.D. (519) 223)

Temazepam; Withdrawal sign; Adenosine agonist (Listos, J. (523) 71)

Diethylpropion

WAY 100635; Marmoset; Figure-eight maze; Sensitivity (Mello Jr., E.L. (511) 43)

Digitalis

Ischemia/reperfusion; Arrhythmia; Na⁺/Ca²⁺ exchange (Nagasawa, Y. (506) 249)

Dihydroergotamine

Emesis; Nausea; Migraine; Resiniferatoxin; Vanilloid; Sumatriptan; *Suncus murinus* (Cheng, F.H.M. (508) 231)

Diltiazem

Gastroepiploic artery; Phosphodiesterase inhibitor; Olprinone; Phosphodiesterase 3A; Phenylephrine (Adachi, H. (528) 137)

Dimer of platelet-derived growth factor-B

Collagen; Smooth muscle α -actin; Endothelin-1; L-Methionine; L-Cysteine (Matsui, H. (509) 31)

Dimerization

Inducible nitric oxide synthase; FR260330 (Chida, N. (509) 71)

1-(2,5-dimethoxy-4-iodophenyl)-2-aminopropane (DOI)

Swim stress; Convulsions; ($\pm$)-8-hydroxy-2-(di-*n*-propylamino) tetralin hydrobromide (8-OH-DPAT); WAY-100635; Ketanserin (Peričić, D. (527) 105)

Dipeptidyl peptidase IV

Resiniferatoxin; Diabetes; Sensory nerve; (Zucker Diabetic Fatty rat) (Gram, D.X. (509) 211)

Dipeptidyl peptidase-4

Insulin secretion; Glucose tolerance; Vildagliptin; (Mice) (Ahrén, B. (521) 164)

Dipeptidyl peptidase-IV

Glucagon-like peptide-1; Insulin; Oral glucose tolerance test; *Ob/ob* mice (Kim, K.-R. (518) 63)

Diphenylhydantoin

Aminoglutethimide; Spironolactone; Carbamazepine; Amygdala-kindled seizures (Borowicz, K.K. (516) 212)

Diphenylpyraline

Dopamine release and uptake; Voltammetry; Microdialysis; Locomotor activity (Lapa, G.B. (506) 237)

Directional differentiation

Embryonic stem cells; Embryoid body; Cardiomyocyte; Icaritin; Sarcomere; Cell cycle; Apoptosis; p53 (Zhu, D. (514) 99)

Disseminated intravascular coagulation model

Venous thrombosis model; Factor Xa inhibitor; Thrombin inhibitor; Protein C; Thrombin generation (Furugohri, T. (514) 35)

Diuretic

OAT; Drug transport; Transporter; Bumetanide (Kobayashi, Y. (524) 44)

Myocardial infarction; Angiotensin-converting enzyme inhibition; Pharmacokinetics (Westendorp, B. (527) 141)

Dizocilpine

D2 receptors; Haloperidol; Streptozotocin; γ -hydroxybutyric acid (Sevak, R.J. (517) 64)

Dmt (2',6'-dimethyl-L-tyrosine)

Endomorphin; Antinociception; Spinal; Supraspinal; Antagonist (Jinsmaa, Y. (509) 37)

[Dmt¹]DALDA

Morphine; Respiratory depression; Hypoxic respiratory response (Shimoyama, M. (511) 199)

DNA repair enzyme

Luteolin; Human lung squamous carcinoma cell line CH27; Apoptosis; Cell cycle; Comet assay (Leung, H.W.-C. (508) 77)

DNA synthesis

Leucine; Proliferation; Hepatocyte (Kimura, M. (510) 167)

DNQX

Morphine withdrawal; Δ FosB; Glutamate receptor; MK-801; Nucleus accumbens; Ventral tegmental area (Wang, H.-L. (527) 94)

Dobutamide

Glucagon; Phosphodiesterase inhibitor; Cilostamide; Rat ventricle; Cardiac contractility; cAMP (Juan-Fita, M.J. (512) 207)

Dofetilide

Azimilide; HMR 1556; Ischemia-reperfusion; Delayed outward rectifier; (Guinea-pig) (Ducroq, J. (518) 165)

(Dog)

QT interval; HERG; Risk assessment (Schneider, J. (512) 53)

Dog

TRPV1 (transient receptor potential vanilloid receptor-1); Cloning; Ganglia; FLIPR (fluorescence imaging plate reader); Capsaicin (Phelps, P.T. (513) 57)

Dominance

Aggression; Antidepressant; Negative affect; Impulse regulation; Personality trait; Affiliative behaviour (Bond, A.J. (526) 218)

Domperidone

Diabetic gastroparesis; Postprandial hypertriglyceridemia; *Rheum palmatum* L.; Atropine (Xie, W. (510) 113)

Apomorphine; Nausea; Emesis; Dopamine (Lau, A.H.Y. (516) 247)

Donepezil

Selegiline; Water maze; Memory; Acetylcholine (Takahata, K. (518) 140)

Donepezil (E2020)

Alzheimer's disease; Cholinesterase inhibitor; Na⁺ channel; K⁺ channel (Yu, B. (508) 15)

L-DOPA (L-dihydroxy-phenylalanine)

Adenosine A_{2A} antagonist; Parkinson's disease; Dopamine; 6-hydroxydopamine (Pinna, A. (512) 157)

Dopamine

Parkinson's disease; Ethyl pyruvate; Oxidative stress; Nuclear transcription factor kappa B; p53 (Wang, L.-Z. (508) 57)

Substance abuse; Cocaine; Serotonin; Nucleus accumbens; Microdialysis (Andrews, C.M. (508) 123)

Acetylcholine; Microdialysis; Benzodiazepines; Valium; Withdrawal; Flumazenil; (Rat) (Rada, P. (508) 131)

Nicotine; Epibatidine; Nomifensine; Nucleus accumbens; Caudate-putamen; In vivo microdialysis (Janhunen, S. (511) 143)

Adenosine A_{2A} antagonist; Parkinson's disease; 6-hydroxydopamine; L-DOPA (L-dihydroxy-phenylalanine) (Pinna, A. (512) 157)

MDMA (3,4-Methylenedioxymethamphetamine); 6-OHDA (6-hydroxydopamine); Serotonin; Endogenous opioid; Parkinson's disease (Lebsanft, H.B. (516) 34)

Lithium carbonate; Milnacipran; In vivo microdialysis; Noradrenaline; Serotonin (Kitaichi, Y. (516) 219)

Apomorphine; Domperidone; Nausea; Emesis (Lau, A.H.Y. (516) 247)

CART; Cocaine; Corticosterone; Nucleus accumbens (Hunter, R.G. (517) 45)

Peptide YY; Hypothalamus; Norepinephrine; Serotonin (Brunetti, L. (519) 48)

Conditioned place aversion; G-protein-activated inwardly rectifying potassium channel; Morphine; Withdrawal (Sato, M. (519) 215)

Milnacipran; In vivo microdialysis; Noradrenaline; Serotonin (Kitaichi, Y. (520) 37)

Eticlopride; Globus pallidus; Microdialysis; Neuropeptide; SCH 23390; Striatum; Substantia nigra (Frankel, P.S. (522) 47)

Ethanol; C57BL/6 mouse; Nucleus accumbens; Voltammetry (Budygin, E.A. (523) 40)

Addiction; Dependence; Behavioral economics; Choice; Lateral hypothalamus; Cocaine; Heroin; Prefrontal cortex (Ahmed, S.H. (526) 9)

Aggression; Serotonin; Defense; Frustration; Alcohol; GABA; Neuroleptics; Benzodiazepines (de Almeida, R.M.M. (526) 51)

Relapse; Addiction; Nucleus accumbens; Glutamate (Schmidt, H.D. (526) 65)

Second-order schedules of reinforcement; Cocaine; Amygdala; Nucleus accumbens; Glutamate (Di Ciano, P. (526) 186)

Addiction; Human; Attention; Craving; Reward (Franken, I.H.A. (526) 199)

Glycine_B site; *N*-methyl-D-aspartate receptors; Schizophrenia; Antipsychotic (Bennett, S. (527) 52)

Dopamine autoreceptor

Dopamine transport; Steroid regulation; G-protein (Thompson, T.L. (511) 121)

Dopamine D1/5 receptor

Dopamine D2 receptor; Anxiety; Conditioned fear (Inoue, T. (519) 253)

Dopamine D1/D2 receptor stimulation

Jaw movement; Nucleus accumbens shell; Retrorubral field; Ventral pallidum; GABA_A receptor; (Rat) (Uchida, T. (510) 39)

Dopamine D1-like receptor

Nephrosis; Proteinuria; Puromycin aminonucleoside; Zelandopam (Yatsu, T. (510) 121)

Dopamine D2 autoreceptor

Antipsychotic drug; Seroquel; Extracellular recording; In vitro slice preparation (Werkman, T.R. (506) 47)

Dopamine D2 receptor

Aripiprazole; Antipsychotic; Partial agonist; Receptor density; Schizophrenia (Tadori, Y. (515) 10)

Dopamine D1/5 receptor; Anxiety; Conditioned fear (Inoue, T. (519) 253)

cAMP; Caudate; Rotation; *c-fos*; Striosome; SKF83959 (Wirtshafter, D. (528) 88)

Dopamine D4 receptor

NPA ((-)-Propylnorapomorphine); JL-18; Guinea pig vas deferens (Morishita, H. (516) 145)

Dopamine receptor

Adenosine receptor; Adenosine antagonist; Adenosine/Dopamine interaction; GABA transmission; Striatopallidal transmission (Floran, B. (520) 43)

Dopamine release and uptake

Diphenylpyraline; Voltammetry; Microdialysis; Locomotor activity (Lapa, G.B. (506) 237)

Dopamine transport

Steroid regulation; Dopamine autoreceptor; G-protein (Thompson, T.L. (511) 121)

Dopamine transporter

GBR 12935 derivative; Monoamine uptake; Hydrogen bonding; Cocaine antagonist; Striatum; (Rat) (Zhen, J. (506) 17)

Dopamine-mimetic-induced locomotor stimulation

Depression; Acetylcholine nicotinic receptor; Antidepressant; Imipramine; β -adrenoceptor down-regulation (Popik, P. (515) 128)

Dorsal periaqueductal grey

GABA; Benzodiazepine; Elevated T-maze; Generalised anxiety; Panic disorder (Bueno, C.H. (516) 239)

Dorsal root ganglion

Sensory neuron; Tetrodotoxin-resistant sodium channel; Tetrodotoxin-sensitive sodium channel; Ralfinamide; NW-1029 (Stummann, T.C. (510) 197)

Pain; Nociceptor; Sodium channel; Deltamethrin (Dekker, L.V. (528) 52)

Dorsal striatum

Drug addiction; Habit; Compulsion; Impulsivity; Sensitization; Tolerance; Allostasis; Prefrontal cortex; Orbitofrontal cortex; Nucleus accumbens (Vanderschuren, L.J.M.J. (526) 77)

15d-PGJ₂ (15-deoxy- $\Delta^{12,14}$ -PGJ₂)

Ramatroban; CRTH2 (Chemoattractant receptor-homologous molecule expressed on Th2 cells); Indomethacin; Competitive inhibitory effect (Sugimoto, H. (524) 30)

DPN (2,3-bis(4-hydroxyphenyl)-propionitrile)

Oestrogen receptor α ; Oestrogen receptor β ; Oestrogen receptor; PPT (4,4',4''-(4-propyl-[1H]-pyrazole-1,3,5-triyl) tris-phenol); Mouse aorta; Mouse mesenteric artery (Al Zubair, K. (513) 101)

Drug abuse

Addiction; Analgesics; Antidepressant; Operant behaviour; Opioid; Reinforcement (Magalas, Z. (528) 103)

Feeding; Obesity (Vicentic, A. (528) 188)

Drug addiction

Habit; Compulsion; Impulsivity; Sensitization; Tolerance; Allostasis; Prefrontal cortex; Orbitofrontal cortex; Dorsal striatum; Nucleus accumbens (Vanderschuren, L.J.M.J. (526) 77)

Alcohol; Cocaine; Nicotine; Opiates; Pharmacotherapy (Heidbreder, C. (526) 101)

Drug discrimination

Subjective effect; Reward; Nicotine; Ethanol; (Rat) (Le Foll, B. (519) 96)

Nicotine; Nicotinic antagonists; Analgesia (Damaj, M.I. (521) 43)

Drug interaction

New quinolone; Nonsteroidal anti-inflammatory drug; Convulsion; GABA_A receptor (Yoshino, T. (507) 69)

Drug self-administration

8-Carboxamidocyclazocine; Kappa agonist; Cocaine; Monkey; rhesus (Stevenson, G.W. (506) 133)

Drug target

ABC transporter; Antiobesity drug; Cardiovascular disease; Cardiovascular drug; Drug-metabolizing enzyme; Inflammation; Nutrigenetics; Nutrigenomics; Obesity; Pharmacodynamic; Pharmacogenetic; Statin (Siest, G. (527) 1)

Drug transport

OAT; Transporter; Diuretic; Bumetanide (Kobayashi, Y. (524) 44)

Drug-metabolizing enzyme

ABC transporter; Antiobesity drug; Cardiovascular disease; Cardiovascular drug; Drug target; Inflammation; Nutrigenetics; Nutrigenomics; Obesity; Pharmacodynamic; Pharmacogenetic; Statin (Siest, G. (527) 1)

Dynorphin A

NMDA, (*N*-methyl-D-aspartate); NAAG, (*N*-acetylaspartylglutamate); Neuroprotection; GCP II, (glutamate carboxypeptidase II); NAALADase, (*N*-acetylated- α -linked acidic dipeptidase) (Long, J.B. (508) 115)

Dyskinesia

GABA (γ -aminobutyric acid); Movement disorder (Kreil, A. (521) 95)

Dystrophin glycoprotein complex

Angiotensin I-converting enzyme inhibitor; Angiotensin II type 1 receptor blocker; Calpain; Hypertrophy; Myocardial infarction (Takahashi, M. (522) 84)

Ear oedema

Skin inflammation; *Protium kleinii*; Burseraceae; α -Amyrin; Triterpenes (Otuki, M.F. (507) 253)

Ear swelling

JTE-907; Cannabinoid CB₂ receptor; Inverse agonist; Agonist (Ueda, Y. (520) 164)

Ecgonine methylester

Cocaine; Butyrylcholinesterase; Cymserine; Benzoylcegonine; (Rat) (Carmona, G.N. (517) 186)

'Ecstasy'

Sheep Purkinje fibre; Phencyclidine; Cocaine; Cocaethylene; Δ^9 -tetrahydrocannabinol; (+)-methamphetamine; Morphine (Sheridan, R.D. (511) 99)

Edaravone

Free radical scavenger; Apoptosis; Focal ischemia; Neuroprotection (Amemiya, S. (516) 125)

Cochlear protection; Antioxidant; Reactive oxygen species; Acoustic trauma; 4-HNE; (4-hydroxy-2-nonenal) (Tanaka, K. (522) 116)

EDHF (Endothelial derived hyperpolarising factor)

14,15 EEZE; Hyperpolarisation; U46619; Mesenteric artery; mouse (Harrington, L.S. (506) 165)

EEG (Electroencephalogram)

REM (Rapid eye movement) suppression; Desipramine; Citalopram; Fluoxetine; Circadian rhythm; WKY (rat) (Ivarsson, M. (522) 63)

14,15 EEZE

EDHF (Endothelial derived hyperpolarising factor); Hyperpolarisation; U46619; Mesenteric artery; mouse (Harrington, L.S. (506) 165)

Efficacy

Antinociception; Kappa-opioid; Delayed antagonism (Husbands, S.M. (509) 117)

EGIS-10608

AMPA receptor antagonist; Newborn mouse; Stroke; Interleukin-1beta; Motoneuron; GYKI 52466; GYKI 53405; EGIS-8332 (Gressens, P. (519) 58)

EGIS-8332

AMPA receptor antagonist; Newborn mouse; Stroke; Interleukin-1beta; Motoneuron; GYKI 52466; GYKI 53405; EGIS-10608 (Gressens, P. (519) 58)

Eicosanoid

Angiogenesis; Ovary (Sakurai, T. (516) 158)

Angiotensin II; Nitric oxide; Cyclooxygenase; Cytochrome P_{450} epoxygenase; TXA_2 /PGH₂ receptor (Jerez, S. (520) 127)

Ejaculation

Selective serotonin reuptake inhibitor; Antidepressant; c-fos; 5-HT_{1A} (de Jong, T.R. (509) 49)

Electric foot-shock

Stressor; Corticosterone; Clomipramine; Depression; Gender; Forced swim test (Consoli, D. (520) 100)

Electrical field stimulation

Rho kinase; Sheep gallbladder smooth muscle; Y-27632 (Şahan-Firat, S. (528) 169)

Electron paramagnetic resonance

N^{ω} -hydroxy-L-arginine homologue; Hydroxylamine; Nitric oxide release; Vasorelaxation (Beranova, P. (516) 260)

Electrophysiology

Neonatal rat cardiomyocyte; Cyclosporin A; Ischemia-reperfusion; Cell contraction; Protein release; Heat shock protein; Mitochondria (Bès, S. (511) 109)

Betahistidine; Vestibular disorder (Barresi, M. (515) 73)

Pain; Sensory neuron (Gerevich, Z. (521) 34)

Electroretinogram

Angiotensin; Diabetic retinopathy; Olmesartan medoxomil; Oxygen induced retinopathy (Nakamura, H. (512) 239)

Electroshock maximal

Oxcarbazepine; Gabapentin; Isobolographic analysis; Pharmacodynamic interaction; Seizure (Luszczki, J.J. (515) 54)

Elevated T-maze

Dorsal periaqueductal grey; GABA; Benzodiazepine; Generalised anxiety; Panic disorder (Bueno, C.H. (516) 239)

Embryoid body

Embryonic stem cells; Directional differentiation; Cardiomyocyte; Icarin; Sarcomere; Cell cycle; Apoptosis; p53 (Zhu, D. (514) 99)

Embryonic stem cells

Directional differentiation; Embryoid body; Cardiomyocyte; Icarin; Sarcomere; Cell cycle; Apoptosis; p53 (Zhu, D. (514) 99)

EMD-68843

Vilazodone; Voltammetry; 5-HT efflux; 5-HT re-uptake (Roberts, C. (517) 59)

Emesis

Cisplatin; Nausea; 5-HT₃ receptor; Tachykinin NK₁ receptor; Anti-emetic (Lau, A.H.Y. (506) 241)

Nausea; Migraine; Resiniferatoxin; Vanilloid; Sumatriptan; Dihydroergotamine; *Suncus murinus* (Cheng, F.H.M. (508) 231)

Apomorphine; Domperidone; Nausea; Dopamine (Lau, A.H.Y. (516) 247)

Endocannabinoid

CB₁; Conditioning; Motivation; Food consumption; Knock-out (Hölter, S.M. (510) 69)

5-HT_{2A}; Alpha-amino-3-hydroxy-5-methyl-4-isoxazolepropionic acid (AMPA); Kainate; Wet dog shake; (Rat) (Gorzalka, B.B. (516) 28)

Corticosterone; Amygdala; 2-arachidonylethanolamide (Hill, M.N. (528) 99)

Endocrine

Interferon alpha; Beta; Gamma; Immune; Sleep; Food; Temperature; Glucose sensitive; Opiate; Naloxone (Dafny, N. (523) 1)

Endogenous opioid

MDMA (3,4-Methylenedioxymethamphetamine); 6-OHDA (6-hydroxydopamine); Serotonin; Dopamine; Parkinson's disease (Lebsanft, H.B. (516) 34)

Endogenous opioid peptide

Adrenoceptor; Cardiomyopathy; Cholestasis; NO (Nitric oxide); Papillary muscle (Ebrahimi, F. (523) 93)

Endomorphin

Dmt (2,6'-dimethyl-L-tyrosine; Antinociception; Spinal; Supraspinal; Antagonist (Jinsmaa, Y. (509) 37)

Endothelial cell

Angiogenesis; Free radical; Nitric oxide; Endothelial nitric oxide synthase (Polytarchou, C. (510) 31)

Angiogenesis; Growth; Migration; Tube formation; MAP kinase (Tsuneki, H. (512) 105)

Protocatechuic aldehyde; Adhesion; NF- κ B (nuclear factor- κ B); AP-1 (activator protein-1) (Zhou, Z. (513) 1)

Endothelial dysfunction

Hypercholesterolemia; Rho-kinase (Steioff, K. (512) 247)

NO (nitric oxide); Hypertension; Bradykinin; Angiotensin-converting enzyme inhibitor; AT₁-receptor antagonist (De Gennaro Colonna, V. (516) 253)

Diabetes mellitus; NAD(P)H oxidase; Oxygen radical; Beta 1-adrenoceptor antagonist; Angiotensin AT₁ receptor antagonist (Dorenkamp, M. (520) 179)

High-fat diet; Vascular contractility; Fenofibrate; Hypertriglyceridaemia (Naderali, E.K. (521) 99)

Coronary circulation; Coronary vasoconstriction; Myocardial ischemia; Endothelin receptor (Climent, B. (524) 102)

Endothelial function

Rho-kinase; eNOS; Hypertension; Nitric oxide; Y27632 (Löhn, M. (507) 179)

Coronary circulation; Myocardial infarction; Remodeling; Vasodilatation; Nitric oxide; Superoxide (Berges, A. (516) 60)

Aging; Vasoactive agent; Coronary circulation; Nitric oxide; Prostaglandin (Ishihata, A. (523) 119)

Endothelial muscarinic receptor

Acetylcholine; Nitric oxide; Cyclic GMP; Potassium channel; Prostanoid; Horse dorsal penile vein (Martínez, A.C. (515) 150)

Endothelial nitric oxide synthase

Angiogenesis; Endothelial cell; Free radical; Nitric oxide (Polytarchou, C. (510) 31)

Endothelial nitric oxide synthetase

Superoxide anion; Nitrotyrosine; Superoxide dismutase; NADPH oxidase; Type II diabetes (Bitar, M.S. (511) 53)

Endothelin

Septic shock; Bosentan; Organ injury; Survival (Iskit, A.B. (506) 83)

Ischemia; Reperfusion; U46619; Vasoconstriction; NO (nitric oxide) (García-Villalón, A.L. (509) 165)

Tacrolimus (FK506); Vascular reactivity; Isolated perfused kidney and mesentery; Bosentan (Tekes, E. (517) 92)

Endothelin ET_A receptor

Chymase; Intraocular pressure; Endothelin-1 (1–31) (Konno, T. (524) 132)

Endothelin receptor

Coronary circulation; Coronary vasoconstriction; Myocardial ischemia; Endothelial dysfunction (Climent, B. (524) 102)

Endothelin-1

Inotropic effect; Ca²⁺ transient; Wortmannin; Rabbit cardiac myocyte (Chu, L. (507) 135)

Dimer of platelet-derived growth factor-B; Collagen; Smooth muscle α -actin; L-Methionine; L-Cysteine (Matsui, H. (509) 31)

Resveratrol; Angiotensin II; Smooth muscle cell; Reactive oxygen species; ERK (extracellular signal-regulated kinase) (Chao, H.-H. (515) 1)

Bronchial smooth muscle; RhoA translocation (Chiba, Y. (517) 182)

Nitric oxide; Acute renal failure; Ischemia/reperfusion (Kurata, H. (517) 232)

Endothelin-1 (1–31)

Chymase; Intraocular pressure; Endothelin ET_A receptor (Konno, T. (524) 132)

Endothelium

Cannabinoids; Anandamide; THC (Tetrahydrocannabinol); Aorta; Vanilloid (O'Sullivan, S.E. (507) 211)

Smooth muscle; Endothelium-derived hyperpolarizing factor; Hydrogen peroxide; Membrane potential (Gluais, P. (513) 219)

Spanish red wine; Composition; Polyphenol; Vasodilation; Rat aorta (Padilla, E. (517) 84)

Homocysteine; Kynurenic acid; S-adenosylhomocysteine (Stazka, J. (517) 217)

Leptin; Blood flow; Nitric oxide; Blood pressure (Rahmouni, K. (518) 175)

Renal hypertension; Ouabain; Contractile response; Membrane depolarization (Molin, J.C. (522) 94)

ATP-sensitive K⁺ channels (Adenosine 5'-triphosphate-sensitive K⁺ channels); Cerebral artery; Vasodilatation; Vascular smooth muscle; (Rat) (Jansen-Olesen, I. (523) 109)

Endothelium dysfunction

Diabetes; Mesenteric vascular bed; Nitric oxide; Magnesium; (Rat) (Soltani, N. (508) 177)

Endothelium-dependent

K⁺; Renal vasodilation; K⁺ channel (Quilley, J. (508) 193)

Endothelium-dependent contraction

Subarachnoid hemorrhage; Rat basilar artery; Vasopressin; Vasopressin V₁ receptor (Nishihashi, T. (513) 93)

Endothelium-dependent relaxation

Captopril; Homocysteine; ADMA (Asymmetric dimethylarginine); NO (Nitric oxide); (Rat) (Fu, Y.-F. (508) 167)

Organ culture; Dexamethasone (Murata, T. (515) 134)

Acetylcholine; RHC-80267; Cholinesterase; Diacylglycerol lipase; Mesenteric artery (Ghisal, P. (517) 97)

Endothelium-derived hyperpolarizing factor

Endothelium; Smooth muscle; Hydrogen peroxide; Membrane potential (Gluais, P. (513) 219)

Endotoxin

Tumor necrosis factor- α (TNF- α); Cytochrome P450 (CYP); P-glycoprotein; TNF- α knockout mice (Miyoshi, M. (507) 229)

Nitric oxide; *Tumor necrosis factor alpha*; Aminoguanidine; Superoxide (Lin, H.-C. (508) 249)

CYP3A2; CYP2C11; P-glycoprotein; Antipyrine clearance; (Rat) (Ueyama, J. (510) 127)

Na⁺/K⁺-ATPase; Sepsis; Cardiac glycoside; Mathematical modeling (Baek, M. (514) 43)

Parotid acinar amylase secretion; Nitric oxide; Salivary gland inflammation; NOS2 induction (Barta, A. (524) 169)

Energy balance

Obesity; Overweight; Oleoyl-estrone; Dexfenfluramine; Sibutramine; Phentermine (Ferrer-Lorente, R. (513) 243)

Energy expenditure

β_3 -adrenoceptor; AJ-9677; Respiratory quotient (Sugimoto, T. (519) 135)

Energy metabolism

Oxidative stress; Hypertension; Gene expression; Left ventricular hypertrophy (Chon, H. (513) 21)

eNOS

Rho-kinase; Hypertension; Endothelial function; Nitric oxide; Y27632 (Löhn, M. (507) 179)

Enteric nervous system

Peptide hormone; Gastric emptying; Intestinal transit (Depoortere, I. (515) 160)

Entitlement systems analysis

Frustration–aggression analysis; Conflict study (de Gaay Fortman, B. (526) 2)

Environment

Serotonin transporter; Genetics; Alcohol dependence; Addiction; Plasticity; Imaging (Lesch, K.-P. (526) 113)

Eosinophil

LASSBio 552; Tetrazolephtalimide derivative; Leukotriene; Allergy (Neves, J.S. (511) 219)

Nitric oxide; Airway inflammation; Asthma; Hyperreactivity (Landgraf, R.G. (518) 212)

Epibatidine

Nicotine; Tyrosine hydroxylase; Calcium; Transcription (Gueorguiev, V.D. (506) 37)

Nicotine; Nomifensine; Dopamine; Nucleus accumbens; Caudate-putamen; In vivo microdialysis (Janhunen, S. (511) 143)

$\alpha 7$ nicotinic receptor; Neuronal nicotinic receptor; Nicotine; Receptor binding; Methyllycaconitine (Nuutinen, S. (515) 83)

Epileptic seizure

Cerebral cortex; NMDA receptor antagonist; Development; (Rat) (Šlamberová, R. (516) 10)

Epileptiform activity

Acetylcholinesterase; Anticonvulsant; Hippocampal slice; Organophosphate; Soman (Harrison, P.K. (518) 123)

Cortical slice; NMDA receptor; Spermine; N^1 -dansyl-spermine; DBA/2 mice (Kirby, B.P. (524) 53)

5-carboxamidotryptamine; Adaptive change; Hippocampal slice; WAY 100635; SB 269970 (Tokarski, K. (524) 60)

Epinephrine

Levosimendan; Acidosis; Guinea pig; Contractility; cAMP (Toller, W. (507) 199)

Epithelial Na^+ channel

Urinary bladder; Aldosterone (Burton, T.J. (510) 181)

EPR spectroscopy

Nitric oxide; Halogenated volatile anaesthetic; Inducible and neuronal nitric oxide synthase; Lipopolysaccharide; NOS inhibitor (Sjakste, N. (513) 193)

Erectile dysfunction

Cholesterol; Superoxide; NADPH oxidase (Shukla, N. (517) 224)

ERK (extracellular signal regulated kinase)

Vascular smooth muscle cell, human; Cyclin D1 expression (Shukla, N. (509) 21)

ERK (extracellular signal-regulated kinase)

Endothelin-1; Resveratrol; Angiotensin II; Smooth muscle cell; Reactive oxygen species (Chao, H.-H. (515) 1)

ERK1/2

Honokiol; Cortical neuron, rat; Neurite outgrowth; CaMK II (Zhai, H. (516) 112)

Erythrocyte

ATPase; Caloxin 2A1; Homeostasis; Signal transduction (Pande, J. (508) 1)

E-selectin

T cell; Leukocyte; cGMP-dependent protein kinase; Adhesion molecule; Tumor necrosis factor- α ; ICAM-1 (intercellular adhesion molecule 1) (Wong, D. (514) 91)

17 β -estradiol

Cardiomyopathy; Oxidative stress; Ovariectomy; Adriamycin (Muñoz-Castañeda, J.R. (523) 86)

17 β -estradiol

Ethanol withdrawal; Protein kinase C ϵ ; Membrane translocation (Jung, M.E. (515) 62)

17 β -Estradiol

Estrogen; Vascular smooth muscle (Egami, R. (520) 142)

Estradiol

17 β -Aminoestrogen; Anticoagulant effect; Thrombogenic effect (Lemini, C. (510) 229)

17 β -aminoestrogen; Uterotrophic effect; Estrogenic effect (Lemini, C. (510) 235)

Estrogen

17 β -Estradiol; Vascular smooth muscle (Egami, R. (520) 142)

Estrogen receptor subtypes

α_1 -adrenoceptor subtypes; Pregnant human uterus (Ducza, E. (528) 183)

Estrogenic effect

17 β -aminoestrogen; Estradiol; Uterotrophic effect (Lemini, C. (510) 235)

Ethanol

Acetaldehyde; Hepatocyte; p42/44 MAPK; JNK; Apoptosis (Lee, Y.J. (508) 31)

Nicotine discrimination; Antagonism; Blood ethanol level (Korkosz, A. (512) 165)

Subjective effect; Drug discrimination; Reward; Nicotine; (Rat) (Le Foll, B. (519) 96)

GABA $_B$ (metabotropic γ -aminobutyric acid) receptor; GHB (γ -hydroxybutyric acid); RNAi (*Drosophila melanogaster*) (Dimitrijevic, N. (519) 246)

Dopamine; C57BL/6 mouse; Nucleus accumbens; Voltammetry (Budygin, E.A. (523) 40)

Ethanol abuse

Reward; Knockout; Inverse agonist (Stephens, D.N. (526) 240)

Ethanol preference

Desoxypeganine; Galanthamine; Alko alcohol (AA) rat (Doetkotte, R. (522) 72)

Ethanol withdrawal

17 β -estradiol; Protein kinase C ϵ ; Membrane translocation (Jung, M.E. (515) 62)

Ethosuximide

T-type Ca²⁺ channel; Central sensitization; Pentylentetrazol; Capsaicin; Formalin (Barton, M.E. (521) 79)

Ethyl 2-(4-bromophenyl)-1-(2,4-dichlorophenyl)-1*H*-4-imidazolecarboxylate

γ -Aminobutyric acid; Transmembrane domain (Mascia, M.P. (516) 204)

Ethyl pyruvate

Parkinson's disease; Dopamine; Oxidative stress; Nuclear transcription factor kappa B; p53 (Wang, L.-Z. (508) 57)

Eticlopride

Dopamine; Globus pallidus; Microdialysis; Neuropeptide; SCH 23390; Striatum; Substantia nigra (Frankel, P.S. (522) 47)

Etizolam

Benzodiazepines; GABA_A receptor; Tolerance; Dependence; Gene expression (Sanna, E. (519) 31)

Excitatory amino acid

Locus coeruleus; Morphine; Synchronous activity; Single unit recording (Zhu, H. (528) 73)

Excitotoxicity

Hippocampus; FAK; MAPK; Survival signaling (Karanian, D.A. (508) 47)

BK_{Ca} (large-conductance Ca²⁺-activated K⁺ channel); Cerebral cortex; Chemical ischemia; Neuronal death (Katsuki, H. (508) 85)

Exocrine pancreatic secretion

C-type natriuretic peptide; Central nervous system; cGMP pathway; Natriuretic peptide receptor A; Natriuretic peptide receptor B; c-ANP-(4-23) amide (Sabbatini, M.E. (524) 67)

Experimental allergic rhinitis

Sensitivity of histamine; Passive cutaneous anaphylaxis titer; Mometasone; Chlorpheniramine (Tsumuro, T. (524) 155)

Experimental asthma

Brown–Norway (rat); Bemiparin; Fondaparinux (Suchankova, J. (507) 261)

Experimental hypertension

5-hydroxytryptamine; Deoxycorticosterone acetate; 5-HT₂ receptor; Mianserin (Silva, A.L.S. (518) 152)

Experimental nerve injury

NMDA receptor antagonist; Memantine; Neramexane; Morphine analgesia; Clonidine; Rat sciatic nerve; Allodynia (Malyskin, A.A. (519) 80)

Exploratory behavior

5-HT₇ (5-hydroxytryptamine₇) receptors; Hole-board test; Monoamines; Amygdala; (Mouse) (Takeda, H. (518) 30)

Extinction

Cocaine; Conditioned drug cues; Heroin; Incubation; Reinstatement; Relapse; Review; Stress (Bossert, J.M. (526) 36)

Extracellular matrix

Remodeling; Adventitia (Tsuruda, T. (508) 201)

Benz[*f*]indole-4,9-dione; 2-Amino-3-ethoxycarbonyl-*N*-methylbenz[*indole*-4,9-dione; Matrix metalloproteinase; Tissue inhibitor of metalloproteinase; Membrane type 1-matrix metalloproteinase (Park, H.J. (527) 31)

Extracellular recording

Antipsychotic drug; Seroquel; Dopamine D2 autoreceptor; In vitro slice preparation (Werkman, T.R. (506) 47)

Substantia nigra; Ventral tegmental area; Serotonin; Antipsychotic drug (Olijslagers, J.E. (520) 77)

Extracellular signal-regulated kinase

Helenalin; Cell differentiation; Protein kinase C; Nuclear factor- κ B (Kim, S.H. (511) 89)

Extravasation

5-Lipoxygenase; Histamine; Phorbol ester; Inflammation (Giannaras, A. (506) 265)

F 13640

5-HT_{1A} receptor; c-Fos protein; Formalin; Morphine; Rat spinal cord (Buritova, J. (514) 121)

Factor Xa inhibitor

Disseminated intravascular coagulation model; Venous thrombosis model; Thrombin inhibitor; Protein C; Thrombin generation (Furugohri, T. (514) 35)

FAK

Hippocampus; Excitotoxicity; MAPK; Survival signaling (Karanian, D.A. (508) 47)

Fast solution exchange

Human AMPA-type receptor; Desensitization; Propofol; Patch-clamp (Krampfl, K. (511) 1)

Fasudil

Arrhythmia; Infarct size; Preconditioning; Rho-kinase (Demiryürek, Ş. (527) 129)

Fatty acid synthase

C75; Appetite suppression; Obesity (Rohrbach, K.W. (511) 31)

Fear conditioning

Fear-potentiated startle; Foot shock; Light-enhanced startle; Sensitization; Noradrenaline (Schweimer, J. (507) 117)

Fear potentiated startle

Anxiety; Group I mGlu receptor; Plus maze; Contextual fear conditioning; Geller–Seifter test (Pietraszek, M. (514) 25)

Fear-potentiated startle

Fear conditioning; Foot shock; Light-enhanced startle; Sensitization; Noradrenaline (Schweimer, J. (507) 117)

Feeding

Obesity; Drug abuse (Vicentic, A. (528) 188)

Fenofibrate

High-fat diet; Vascular contractility; Endothelial dysfunction; Hypertriglyceridaemia (Naderali, E.K. (521) 99)

Fentanyl

Buprenorphine; Δ^9 -THC; Antinociception; Transdermal; (Guinea pig) (Cichewicz, D.L. (525) 74)

Figure-eight maze

Diethylpropion; WAY 100635; Marmoset; Sensitivity (Mello Jr., E.L. (511) 43)

Firing activity

Antidepressant; 5-HT receptor; Idazoxan; Noradrenaline; α_2 -Adrenoceptor (Grandoso, L. (517) 51)

FK614

Nonthiazolidindione; Insulin sensitizer; Zucker fatty rat; PPAR (peroxisome proliferator-activated receptor) γ (Minoura, H. (519) 182)

FK962

Memory; Passive avoidance; Somatostatin; Water maze; Whole-cell patch-clamp (Tokita, K. (527) 111)

Flavonoid

GABA (γ -aminobutyric acid); 6-methylflavanone; 6-methylflavone; Benzodiazepine; GABA_A receptor (Hall, B.J. (512) 97)

Hesperidin; Diazepam; Synergy; Sedation; Sleep-enhancing action (Fernández, S.P. (512) 189)

FLIPR (fluorescence imaging plate reader)

TRPV1 (transient receptor potential vanilloid receptor-1); Cloning; Dog; Ganglia; Capsaicin (Phelps, P.T. (513) 57)

FLIPR® Membrane Potential Assay

Glycine receptor; High throughput screening (Jensen, A.A. (521) 39)

Flumazenil

GABA_A receptor; HEK 293 cell; Diazepam; GABA (γ -aminobutyric acid); [³H]flunitrazepam binding (Perićić, D. (507) 7)

Dopamine; Acetylcholine; Microdialysis; Benzodiazepines; Valium; Withdrawal; (Rat) (Rada, P. (508) 131)

Triazolam; Bretazenil; Benzodiazepine; Physical dependence; Precipitated withdrawal; (Baboon) (Weerts, E.M. (519) 103)

Fluo-3

Proliferation; Iptakalim; ATP-sensitive potassium channel; Pulmonary arterial smooth muscle cell (Xie, W. (511) 81)

5-Fluorouracil

Adenosine receptor; N^6 -Cyclopentyladenosine; Haematopoietic progenitor cell; (Mouse) (Pospíšil, M. (507) 1)

Fluoxetine

Medial prefrontal cortex; Olanzapine; Microdialysis; Osmotic minipump (Amargós-Bosch, M. (516) 235)

EEG (Electroencephalogram); REM (Rapid eye movement) suppression; Desipramine; Citalopram; Circadian rhythm; WKY (rat) (Ivarsson, M. (522) 63)

Short-term memory; 5-HT_{1A} receptor; Buspirone; 8-OH-DPAT (8-hydroxy-di-*n*-propylamino tetralin); WAY100635 (Fernández-Pérez, S. (522) 78)

Fluvoxamine

Tail suspension test; Sulpiride; Antidepressant; WAY100635 (Ago, Y. (520) 86)

fMLP

Neutrophil; Platelet; YC-1; P-selectin; Cathepsin G; Whole blood (Liao, C.-H. (519) 158)

Focal ischemia

Edaravone; Free radical scavenger; Apoptosis; Neuroprotection (Amemiya, S. (516) 125)

Fondaparinux

Experimental asthma; Brown–Norway (rat); Bemiparin (Suchankova, J. (507) 261)

Food

Interferon alpha; Beta; Gamma; Immune; Endocrine; Sleep; Temperature; Glucose sensitive; Opiate; Naloxone (Dafny, N. (523) 1)

Food consumption

CB₁; Endocannabinoid; Conditioning; Motivation; Knock-out (Hölter, S.M. (510) 69)

Food intake

Antisense oligonucleotide; Melanocortin; Small interfering RNA; (Rat) (Senn, C. (522) 30)

Foot shock

Fear conditioning; Fear-potentiated startle; Light-enhanced startle; Sensitization; Noradrenaline (Schweimer, J. (507) 117)

Forced swim test

Depression; Neurokinin receptor antagonist; CP-96,345; SR 48968; SR 142801 (Dableh, L.J. (507) 99)

Stressor; Electric foot-shock; Corticosterone; Clomipramine; Depression; Gender (Consoli, D. (520) 100)

Forced swimming

Curcumin; Tail suspension; Locomotor activity; Antidepressant-like effect; Monoamine; Monoamine oxidase; Mice (Xu, Y. (518) 40)

Forced swimming test in mice

5-HT_{1B} receptor ligand; *p*-Chlorophenylalanine; Idazoxan; Sulpiride (Tatarczyńska, E. (516) 46)

Formalin

σ_1 Receptor; Non-acute pain (Cendán, C.M. (511) 73)

5-HT_{1A} receptor; c-Fos protein; F 13640; Morphine; Rat spinal cord (Buritova, J. (514) 121)

Ethosuximide; T-type Ca²⁺ channel; Central sensitization; Pentylene-tetrazol; Capsaicin (Barton, M.E. (521) 79)

Formalin test

Microdialysis; Pain; Locus coeruleus; Noradrenaline (Sajedianfard, J. (512) 153)

Phosphodiesterase 3; Cyclic AMP; Trequinsin (Torres-López, J.E. (519) 75)

Neuropathic pain; Allodynia; Antinociception; Neurometer; (Rat) (Akada, Y. (523) 46)

Pain; Opiate; Hargreaves test; Quaternary naloxone; Post-treatment (Sevostianova, N. (525) 83)

Forskolin

Pregnane-X-receptor; CYP3A (Dowless, M.S. (512) 9)

Rho GTP-binding protein; Angioplasty; Trapidil; Protein–serine–threonine kinase (Ishikura, K. (515) 28)

Fos

Morphine withdrawal; Heart; Tyrosine hydroxylase; Western blot (González-Cuello, A. (506) 119)

Neuropathic pain; Cannabinoid; Cannabinoid CB₁ receptor; Cannabinoid CB₂ receptor; Vanilloid TRPV-1 receptor; Spinal cord (Rodella, L.F. (508) 139)

Morphine withdrawal; Opioid; Naltrexone; Sensitization; Guinea-pig (Mizutani, A. (509) 135)

ΔFosB

Morphine withdrawal; Glutamate receptor; DNQX; MK-801; Nucleus accumbens; Ventral tegmental area (Wang, H.-L. (527) 94)

FR260330

Inducible nitric oxide synthase; Dimerization (Chida, N. (509) 71)

Free radical

Angiogenesis; Endothelial cell; Nitric oxide; Endothelial nitric oxide synthase (Polytarchou, C. (510) 31)

Alveolar bone loss; Reactive oxygen specie; Periodontal disease (Di Paola, R. (516) 151)

Free radical scavenger

Neurodegeneration; Ischaemia; Kainic acid; S34176; Nitron (Lockhart, B. (511) 127)

Transient cerebral ischemia; Long-term potentiation; ·OH (hydroxyl radical); NOS (NO synthase); Hippocampus (Otani, H. (512) 129)

Edaravone; Apoptosis; Focal ischemia; Neuroprotection (Amemiya, S. (516) 125)

Frontal cortex

Serotonin (5-hydroxytryptamine, 5-HT); Microdialysis; Paroxetine; *N*-[2-[4-(2-methoxyphenyl)-1-piperazinyl]ethyl]-*N*-(pyridinyl)cyclohexanecarboxamide (WAY-100635); 5-HT_{1A} receptor; 8-Hydroxy-2-(di-*n*-propylamino)tetralin (8-OH-DPAT) (Hughes, Z.A. (510) 49)

Fructose

N-acetylcysteine; Oxidative stress; Insulin resistance; Hypertension (Song, D. (508) 205)

Fructose 2,6-bisphosphate

Glycolysis; 6-phosphofructo-2-kinase/fructose-2,6-bisphosphatase; Pentose phosphate pathway; Aspirin; Apoptosis; Glutathione peroxidase; Glutathione; Nuclear factor kappa B (Cuesta, E. (517) 158)

Frustration

Aggression; Serotonin; Defense; Alcohol; Dopamine; GABA; Neuroleptics; Benzodiazepines (de Almeida, R.M.M. (526) 51)

Frustration–aggression analysis

Conflict study; Entitlement systems analysis (de Gaay Fortman, B. (526) 2)

Fundic compliance

Nitroergic neurotransmission; Neuronal nitric oxide synthase; ARL 17477; (Pig) (Lefebvre, R.A. (525) 143)

Fura-2

Calcium; Long-chain fatty alcohol; Pituitary neural lobe; Primary sensory neuron; Trimethyl-cyclohexenonic alcohol (Jover, E. (516) 197)

G protein

Hippocampus; Pregnenolone sulfate; Presynaptic receptor; Sigma receptor; Steroid (Schiess, A.R. (518) 22)

Serotonin; 5-HT_{1A} receptor; [³⁵S]GTPγS binding; Cerebral cortex (Odagaki, Y. (521) 49)

G protein γ₂ subunit

Guanine nucleotide binding protein; Opioid receptor agonist; Cannabinoid receptor agonist; Clonidine; Antinociception (Varga, E.V. (508) 93)

G protein-coupled receptor

Binding site; Nonpeptide antagonist; Site-directed mutagenesis; Tachykinin NK₂ receptor β isoform (Meini, S. (516) 104)

Binding site; Cyclic peptide; Icatibant; Site-directed mutagenesis (Cucchi, P. (528) 7)

G14T mutant

Adenosine A₁ receptor; Inverse agonism; Constitutive activity; “Locked-on” phenotype (de Ligt, R.A.F. (510) 1)

GABA

Grooming behaviour; Mice; Anxiety; Diazepam; Pentylentetrazole (Kalueff, A.V. (508) 147)

Dorsal periaqueductal grey; Benzodiazepine; Elevated T-maze; Generalised anxiety; Panic disorder (Bueno, C.H. (516) 239)

ACTH (adrenocorticotrophic hormone); Corticosterone; Paraventricular nucleus; Stress; L-838,417; Diazepam; Zolpidem; Zopiclone; (Mouse) (Mikkelsen, J.D. (519) 223)

GABA receptor; Acetylcholine; Spinal antinociception; Spinal pain transmission (Kommallage, M. (525) 69)

Aggression; Serotonin; Defense; Frustration; Alcohol; Dopamine; Neuroleptics; Benzodiazepines (de Almeida, R.M.M. (526) 51)

Proton; Pentobarbital; GABA_A receptor; *Xenopus* oocyte (Wang, M.-D. (528) 1)

GABA (γ-aminobutyric acid)

GABA_A receptor; HEK 293 cell; Flumazenil; Diazepam; [³H]flunitrazepam binding (Perićić, D. (507) 7)

6-methylflavanone; 6-methylflavone; Benzodiazepine; Flavonoid; GABA_A receptor (Hall, B.J. (512) 97)

Dyskinesia; Movement disorder (Kreil, A. (521) 95)

Antihypertensive; Kidney; Spontaneously hypertensive rat; Renal denervation; Renin (Hayakawa, K. (524) 120)

GABA (γ-aminobutyric acid) uptake

Murine GABA transporter (mGAT1-4); Structure activity relationship; Subtype selectivity (Kragler, A. (519) 43)

GABA receptor

Conditioned place preference; Morphine; Ventral tegmental area; (Rat) (Sahraei, H. (524) 95)

GABA; Acetylcholine; Spinal antinociception; Spinal pain transmission (Kommallage, M. (525) 69)

GABA release

Ionotropic glutamate receptor; Gene expression; Nucleus accumbens core (Jacobs, E.H. (511) 27)

GABA transmission

Adenosine receptor; Adenosine antagonist; Adenosine/Dopamine interaction; Dopamine receptor; Striatopallidal transmission (Floran, B. (520) 43)

GABA_A (γ -Aminobutyric acid_A) receptor

Clomethiazole; Body temperature; Tolerance; Pharmacodynamic interaction; 5-HT_{1A} (5-Hydroxytryptamine_{1A}) receptor; NMDA (*N*-methyl-D-aspartate) receptor; Hypothermia (Visser, S.A.G. (512) 139)

GABA_A receptor

Glycine receptor; Monoterpenoid; Menthol (Hall, A.C. (506) 9)

Cortisol; 11-Deoxycortisol; Neuroactive steroid; 3 α ,5 β -Reduced cortisol; Tetrahydrodeoxycorticosterone (Penland, S.N. (506) 129)

HEK 293 cell; Flumazenil; Diazepam; GABA (γ -aminobutyric acid); [³H]flunitrazepam binding (Peričić, D. (507) 7)

New quinolone; Nonsteroidal anti-inflammatory drug; Drug interaction; Convulsion (Yoshino, T. (507) 69)

Jaw movement; Nucleus accumbens shell; Retrorubral field; Ventral pallidum; Dopamine D1/D2 receptor stimulation; (Rat) (Uchida, T. (510) 39)

GABA (γ -aminobutyric acid); 6-methylflavanone; 6-methylflavone; Benzodiazepine; Flavonoid (Hall, B.J. (512) 97)

General anaesthetic; Knock-in mice; Unconsciousness; Immobility (Lambert, S. (516) 23)

Allodynia; Gaboxadol; Hyperalgesia; Isoguvacine; Zolpidem (Rode, F. (516) 131)

Etizolam; Benzodiazepines; Tolerance; Dependence; Gene expression (Sanna, E. (519) 31)

Benzodiazepine; Amentoflavone; Biflavonoid (Hansen, R.S. (519) 199)

Proton; GABA; Pentobarbital; *Xenopus* oocyte (Wang, M.-D. (528) 1)

GABA_B (metabotropic γ -aminobutyric acid) receptor

GHB (γ -hydroxybutyric acid); Ethanol; RNAi (*Drosophila melanogaster*) (Dimitrijevic, N. (519) 246)

GABA_B receptor

Cannabinoid CB₁ receptor; Antinociceptive; Spinal cord; (Rat) (Naderi, N. (514) 159)

GTP γ S binding; SCH 50,911; Chronic treatment; (Mice) (Pibiri, F. (515) 94)

[³⁵S]GTP γ S binding; voluntary alcohol consumption; (sP) Sardinian alcohol-preferring and (sNP) Sardinian alcohol-nonpreferring (Rat) (Castelli, M.P. (523) 67)

Positive allosteric modulation; CGP7930; GS39783; Baclofen; Alcohol drinking behavior; Sardinian alcohol-preferring (sP) (Rat) (Orrù, A. (525) 105)

Gabapentin

Oxcarbazepine; Electroshock maximal; Isobolographic analysis; Pharmacodynamic interaction; Seizure (Luszczki, J.J. (515) 54)

Gaboxadol

Allodynia; GABA_A receptor; Hyperalgesia; Isoguvacine; Zolpidem (Rode, F. (516) 131)

Galanin

Galanin fragment; Galanin antagonist; Vasopressin secretion; Hyperosmosis; Histamine (Molnár, A. (516) 174)

Galanin antagonist

Galanin; Galanin fragment; Vasopressin secretion; Hyperosmosis; Histamine (Molnár, A. (516) 174)

Galanin fragment

Galanin; Galanin antagonist; Vasopressin secretion; Hyperosmosis; Histamine (Molnár, A. (516) 174)

Galanthamine

Human nicotinic acetylcholine receptor; Scopolamine; Tacrine; *Xenopus laevis* oocyte; Two-microelectrode voltage clamp (Smulders, C.J.G.M. (509) 97)

Ethanol preference; Desoxypeganine; Alko alcohol (AA) rat (Doetkotte, R. (522) 72)

Gamma

Interferon alpha; Beta; Immune; Endocrine; Sleep; Food; Temperature; Glucose sensitive; Opiate; Naloxone (Dafny, N. (523) 1)

Ganglia

TRPV1 (transient receptor potential vanilloid receptor-1); Cloning; Dog; FLIPR (fluorescence imaging plate reader); Capsaicin (Phelps, P.T. (513) 57)

Garlic oil

Diabetes; Diallyl trisulfide; Glycemic control; Streptozotocin; (Rat) (Liu, C.-T. (516) 165)

Gastric acid secretion

Tetraethylammonium; 4-aminopyridine; Gastrointestinal motility (Dong, D.-L. (509) 179)

Caffeic acid phenethyl ester; Acetylcholinesterase inhibitor; Stomach (Borrelli, F. (521) 139)

Gastric antral ulceration

Anti-ulcer drug; Astaxanthin; Orogastic administration; *Xanthophyllomyces dendrorhous* (Kim, J.-H. (514) 53)

Gastric damage

Hepatocyte growth factor; COX-2 (cyclooxygenase-2); Adrenomedullin; CGRP (calcitonin gene-related peptide) receptor (Cantarella, G. (518) 221)

Gastric emptying

Peptide hormone; Intestinal transit; Enteric nervous system (Depoortere, I. (515) 160)

Gastric emptying and motility

Gastric mucosal damage; α_2 -Adrenoceptor subtype (Fülöp, K. (528) 150)

Gastric epithelial cells

COX-2; Plaunotol; NF- κ B; CRE (Fu, H.y. (524) 38)

Gastric mucosal blood flow

Histamine; Gastric ulcer; Histamine receptor antagonist; Capsaicin; Interleukin-1 β (Dembinski, A. (508) 211)

Gastric mucosal damage

Gastric emptying and motility; α_2 -Adrenoceptor subtype (Fülöp, K. (528) 150)

Gastric pentadecapeptide BPC 157

Pargyline/L-tryptophan; Serotonin syndrome; 5-HT_{2A} receptor antagonism; (Rats) (Boban Blagaic, A. (512) 173)

Gastric ulcer

Histamine; Histamine receptor antagonist; Capsaicin; Gastric mucosal blood flow; Interleukin-1 β (Dembiński, A. (508) 211)

Gastroepiploic artery

Phosphodiesterase inhibitor; Olprinone; Diltiazem; Phosphodiesterase 3A; Phenylephrine (Adachi, H. (528) 137)

Gastroesophageal reflux

Glutamate; Lower esophageal sphincter; 2-methyl-6-(phenylethynyl)-pyridine; MPEP (Jensen, J. (519) 154)

Gastrointestinal motility

Tetraethylammonium; 4-aminopyridine; Gastric acid secretion (Dong, D.-L. (509) 179)

Ghrelin; Metoclopramide; Motilin; Prokineticin (Bassil, A.K. (524) 138)

Gate

P2X receptor; Voltage dependence; Kinetics; Ligand affinity (Nakazawa, K. (508) 23)

GBR 12935 derivative

Dopamine transporter; Monoamine uptake; Hydrogen bonding; Cocaine antagonist; Striatum; (Rat) (Zhen, J. (506) 17)

GCP II, (glutamate carboxypeptidase II)

NMDA, (*N*-methyl-D-aspartate); NAAG, (*N*-acetylaspartylglutamate); Neuroprotection; NAALADase, (*N*-acetylated- α -linked acidic dipeptidase); Dynorphin A (Long, J.B. (508) 115)

GEA 3175

Adenosine; Calcium; cAMP; cGMP; Milrinone; Nitric oxide; Phosphodiesterases; Platelets (Asplund Persson, A. (517) 149)

Dephosphatase; cGMP; Nitric oxide; Protein phosphorylation; Relaxation; SNAP (Persson, A.A. (521) 124)

Geller–Seifter test

Anxiety; Group I mGlu receptor; Plus maze; Fear potentiated startle; Contextual fear conditioning (Pietraszek, M. (514) 25)

Gender

Stressor; Electric foot-shock; Corticosterone; Clomipramine; Depression; Forced swim test (Consoli, D. (520) 100)

Gene expression

Ionotropic glutamate receptor; GABA release; Nucleus accumbens core (Jacobs, E.H. (511) 27)

Oxidative stress; Hypertension; Left ventricular hypertrophy; Energy metabolism (Chon, H. (513) 21)

Etizolam; Benzodiazepines; GABA_A receptor; Tolerance; Dependence (Sanna, E. (519) 31)

Gene inactivation

Islets of Langerhans; Peptide hormone-release; Cholinergic; Toxin-resistant current; R-type Ca²⁺ channel (Pereverzev, A. (511) 65)

General anaesthetic

GABA_A receptor; Knock-in mice; Unconsciousness; Immobility (Lambert, S. (516) 23)

Generalised anxiety

Dorsal periaqueductal grey; GABA; Benzodiazepine; Elevated T-maze; Panic disorder (Bueno, C.H. (516) 239)

Genetics

Serotonin transporter; Alcohol dependence; Addiction; Environment; Plasticity; Imaging (Lesch, K.-P. (526) 113)

Aggression; Serotonin transporter; Monoamine oxidase A; 5-hydroxyindoleacetic acid; Microdialysis; (Monkey); (Mice); (Rat) (Francesco Ferrari, P. (526) 259)

Gentisic acid

Aspirin; Antioxidant; LDL oxidation (Ashdate, K. (513) 173)

GF 109203X

Airway smooth muscle; Protein kinase C; Desensitization; β -Adrenoceptor (Boterman, M. (516) 86)

GHB (γ -hydroxybutyric acid)

GABA_B (metabotropic γ -aminobutyric acid) receptor; Ethanol; RNAi (*Drosophila melanogaster*) (Dimitrijevic, N. (519) 246)

Ghrelin

Gastrointestinal motility; Metoclopramide; Motilin; Prokineticin (Bassil, A.K. (524) 138)

Ginkgolide B

Glutamate exocytosis; Hippocampal synaptosome; Presynaptic voltage-dependent Ca²⁺ influx; Protein kinase A (Wang, S.-J. (514) 141)

Glibenclamide

Gliclazide; Human myocardium; Preconditioning (Loubani, M. (515) 142)

1-Methyl-4-phenylpyridinium; PC12 cell; Mitochondrial membrane permeability; Cell injury (Lee, C.S. (527) 23)

Gliclazide

Glibenclamide; Human myocardium; Preconditioning (Loubani, M. (515) 142)

Globus pallidus

Dopamine; Eticlopride; Microdialysis; Neuropeptide; SCH 23390; Striatum; Substantia nigra (Frankel, P.S. (522) 47)

Glucagon

Dobutamide; Phosphodiesterase inhibitor; Cilostamide; Rat ventricle; Cardiac contractility; cAMP (Juan-Fita, M.J. (512) 207)

Glucagon-like peptide-1

Dipeptidyl peptidase-IV; Insulin; Oral glucose tolerance test; *Ob/ob* mice (Kim, K.-R. (518) 63)

Glucocorticoid

Aggression; Abnormal (Haller, J. (526) 89)

Glucocorticoid receptor

Neuropathic pain; N-type calcium channel; cDNA microarray (Takasaki, I. (524) 80)

Glucosamine-kynurenic acid

Kynurenic acid; Probenecid; Neuroprotection; Hippocampus; (Rat) (Robotka, H. (513) 75)

Glucose

Blood pressure; Insulin; Renin angiotensin system; Sympathetic nervous system; Vasodilation (Villafaña, S. (506) 143)

Adiponectin; Metformin; AMP activated protein kinase; Adipocyte; Diabetes (Huypens, P. (518) 90)

Muscimol; Pyruvate; Metabolism; Spontaneous alternation; Shock avoidance; Hippocampus (Krebs, D.L. (520) 91)

Kinin; Bradykinin; Insulin; Rat uterus; Angiotensin-converting enzyme inhibitor (Damas, J. (525) 154)

Glucose sensitive

Interferon alpha; Beta; Gamma; Immune; Endocrine; Sleep; Food; Temperature; Opiate; Naloxone (Dafny, N. (523) 1)

Glucose tolerance

Dipeptidyl peptidase-4; Insulin secretion; Vildagliptin; (Mice) (Ahrén, B. (521) 164)

Glutamate

MPEP; MTEP; Hyperalgesia; Allodynia; Modality (Zhu, C.Z. (506) 107)

Adenosine; Caffeine; Neurodevelopment; Maternal intake; Locomotor activity (da Silva, R.S. (509) 155)

Lower esophageal sphincter; 2-methyl-6-(phenylethynyl)-pyridine; MPEP; Gastroesophageal reflux (Jensen, J. (519) 154)

Relapse; Addiction; Nucleus accumbens; Dopamine (Schmidt, H.D. (526) 65)

Second-order schedules of reinforcement; Cocaine; Amygdala; Nucleus accumbens; Dopamine (Di Ciano, P. (526) 186)

Metabotropic glutamate receptor; Reinstatement; Self-administration; Conditioning; Alcohol (Bäckström, P. (528) 110)

Glutamate exocytosis

Ginkgolide B; Hippocampal synaptosome; Presynaptic voltage-dependent Ca^{2+} influx; Protein kinase A (Wang, S.-J. (514) 141)

Glutamate receptor

Morphine withdrawal; ΔFosB ; DNQX; MK-801; Nucleus accumbens; Ventral tegmental area (Wang, H.-L. (527) 94)

Glutathione

Satratoxin H; Reactive oxygen species; Apoptosis; *N*-Acetyl-L-cysteine; Mitogen-activated protein kinase (Nusuetrong, P. (507) 239)

Glycolysis; 6-phosphofructo-2-kinase/fructose-2,6-bisphosphatase; Fructose 2,6-bisphosphate; Pentose phosphate pathway; Aspirin; Apoptosis; Glutathione peroxidase; Nuclear factor kappa B (Cuesta, E. (517) 158)

Glutathione peroxidase

Glycolysis; 6-phosphofructo-2-kinase/fructose-2,6-bisphosphatase; Fructose 2,6-bisphosphate; Pentose phosphate pathway; Aspirin; Apoptosis; Glutathione; Nuclear factor kappa B (Cuesta, E. (517) 158)

Glycemic control

Diabetes; Diallyl trisulfide; Garlic oil; Streptozotocin; (Rat) (Liu, C.-T. (516) 165)

Glycine receptor

GABA_A receptor; Monoterpenoid; Menthol (Hall, A.C. (506) 9)

FLIPR® Membrane Potential Assay; High throughput screening (Jensen, A.A. (521) 39)

Glycine_B site

N-methyl-D-aspartate receptors; Dopamine; Schizophrenia; Antipsychotic (Bennett, S. (527) 52)

Glycolysis

6-phosphofructo-2-kinase/fructose-2,6-bisphosphatase; Fructose 2,6-bisphosphate; Pentose phosphate pathway; Aspirin; Apoptosis; Glutathione peroxidase; Glutathione; Nuclear factor kappa B (Cuesta, E. (517) 158)

Glycyrrhizae radix

Bakumondo-to (Mai-men-dong-tang); Antitussive effect; Liquiritin apioside; Liquiritin; Liquiritigenin (Kamei, J. (507) 163)

GM-CSF (granulocyte macrophage-colony stimulating factor)

COX (cyclooxygenase); NO-NSAIDs (nitric oxide-donating non-steroidal anti-inflammatory drugs); PGE₂ (prostaglandin E₂); Synoviocytes (Zacharowski, P. (508) 7)

Goniiothalamine

Redox status; cdc25C; Apoptosis; MDA-MB-231 cell (Chen, W.-Y. (522) 20)

GPI 15427

PARP-1; GPI 16539; Myeloperoxidase; Colitis; Ischemia/Reperfusion (Di Paola, R. (527) 163)

GPI 16539

PARP-1; GPI 15427; Myeloperoxidase; Colitis; Ischemia/Reperfusion (Di Paola, R. (527) 163)

GPR14

Urotensin-II; UT receptor; BIM-23127; SB-710411; GSK248451; Trachea; Bronchus (Behm, D.J. (516) 276)

G-protein

Dopamine transport; Steroid regulation; Dopamine autoreceptor (Thompson, T.L. (511) 121)

Receptor signaling; Adenylyl cyclase; Pertussis toxin; Ligand attachment; Ligand dissociation (Sah, R. (525) 60)

G-protein coupled receptors

Atosiban; Barusiban; Carbetocin; Oxytocin (Gimpl, G. (510) 9)

G-protein-activated inwardly rectifying potassium channel

Conditioned place aversion; Dopamine; Morphine; Withdrawal (Sato, M. (519) 215)

Grip strength

Botulinum toxin type-A; M toxin; Muscle weakening (Yoneda, S. (508) 223)

Grooming behaviour

Mice; Anxiety; GABA; Diazepam; Pentylenetetrazole (Kalueff, A.V. (508) 147)

Group I mGlu receptor

Anxiety; Plus maze; Fear potentiated startle; Contextual fear conditioning; Geller-Seifter test (Pietraszek, M. (514) 25)

Growth

Angiogenesis; Endothelial cell; Migration; Tube formation; MAP kinase (Tsuneki, H. (512) 105)

GS39783

Positive allosteric modulation; GABA_B receptor; CGP7930; Baclofen; Alcohol drinking behavior; Sardinian alcohol-preferring (sP) (Rat) (Orrù, A. (525) 105)

GSK248451

Urotensin-II; GPR14; UT receptor; BIM-23127; SB-710411; Trachea; Bronchus (Behm, D.J. (516) 276)

GTPγS binding

GABA_B receptor; SCH 50,911; Chronic treatment; (Mice) (Pibiri, F. (515) 94)

Guanine nucleotide binding protein

G protein γ₂ subunit; Opioid receptor agonist; Cannabinoid receptor agonist; Clonidine; Antinociception (Varga, E.V. (508) 93)

(Guinea pig)

Airway edema; Bronchial asthma; Bronchoconstriction; Lysophosphatidylcholine (Nobata, K. (520) 150)

Fentanyl; Buprenorphine; Δ⁹-THC; Antinociception; Transdermal (Cichewicz, D.L. (525) 74)

Guinea pig

Levosimendan; Acidosis; Epinephrine; Contractility; cAMP (Toller, W. (507) 199)

Guinea pig vas deferens

Dopamine D₄ receptor; NPA ((-)-Propylnorapomorphine); JL-18 (Morishita, H. (516) 145)

(Guinea-pig)

Azimilide; Dofetilide; HMR 1556; Ischemia–reperfusion; Delayed outward rectifier (Ducroq, J. (518) 165)

Guinea-pig

Morphine withdrawal; Opioid; Naltrexone; Sensitization; Fos (Mizutani, A. (509) 135)

Guinea-pig ileum smooth muscle contraction

Bradykinin receptor antagonist; Non-peptide; Chlorobenzhydryl piperazine (Kam, Y.L. (523) 143)

GW405833

Cannabinoid CB₂ receptor; Inflammatory pain; Neuropathic pain; Knock-out; Opioid (Whiteside, G.T. (528) 65)

GYKI 52466

AMPA receptor antagonist; Newborn mouse; Stroke; Interleukin-1β; Motoneuron; GYKI 53405; EGIS-8332; EGIS-10608 (Gressens, P. (519) 58)

GYKI 53405

AMPA receptor antagonist; Newborn mouse; Stroke; Interleukin-1β; Motoneuron; GYKI 52466; EGIS-8332; EGIS-10608 (Gressens, P. (519) 58)

H₂ receptor

Histamine; H₂ receptor antagonist; Zolantidine; Improgan (Hough, L.B. (522) 38)

H₂ receptor antagonist

Histamine; H₂ receptor; Zolantidine; Improgan (Hough, L.B. (522) 38)

[³H]2-BFI

Imidazoline I₂ binding site; Autoradiography; MAO-B; Brain; (Mouse) (MacInnes, N. (516) 139)

β-carboline; Norharman; Imidazoline I₂ receptor; [³H]Ro41-1049; [³H]Ro19-6327 (lazabemide); Morphine addiction; (Rat) brain and liver (Miralles, A. (518) 234)

[³H] flunitrazepam binding

GABA_A receptor; HEK 293 cell; Flumazenil; Diazepam; GABA (γ-aminobutyric acid) (Peričić, D. (507) 7)

H9c2 cardiomyocyte

KR-32570; Na⁺/H⁺ exchanger; Hypoxia I (Kim, M.J. (525) 1)

Habit

Drug addiction; Compulsion; Impulsivity; Sensitization; Tolerance; Allostatic; Prefrontal cortex; Orbitofrontal cortex; Dorsal striatum; Nucleus accumbens (Vanderschuren, L.J.M.J. (526) 77)

Habituation

Memory improvement; Brain energy metabolism; Recognition memory; Mitochondrial respiration; (Rat) (Riha, P.D. (511) 151)

Haematopoietic progenitor cell

Adenosine receptor; N⁶-Cyclopentyladenosine; 5-Fluorouracil; (Mouse) (Pospišil, M. (507) 1)

Halogenated volatile anaesthetic

Nitric oxide; EPR spectroscopy; Inducible and neuronal nitric oxide synthase; Lipopolysaccharide; NOS inhibitor (Sjakste, N. (513) 193)

Haloperidol

D₂ receptors; Streptozotocin; γ-hydroxybutyric acid; Dizocilpine (Sevak, R.J. (517) 64)

Schizophrenia; NMDA receptor; Phencyclidine; Cognition; Clozapine (Hashimoto, K. (519) 114)

Halothane

Pentobarbital; Sematilide; Ventricular repolarization (Takahara, A. (507) 169)

(Hamster)

Ileum; Nitrgenic neuron; Nitric oxide; Peristalsis; Propelled liquid volume (Shiina, T. (517) 120)

Hargreaves test

Pain; Opiate; Formalin test; Quaternary naloxone; Post-treatment (Sevostianova, N. (525) 83)

Heart

Fos; Morphine withdrawal; Tyrosine hydroxylase; Western blot (González-Cuello, A. (506) 119)

Ischemia; Valsartan; Mitochondria; Cell biology; Cardioprotection (Monteiro, P. (518) 158)

Morphine withdrawal; Protein kinase A; Protein kinase C (Cerezo, M. (522) 9)

Cardiovascular; Ischemia and reperfusion; Myocardial infarction; Cysteine protease; Calpain inhibitor (Khalil, P.N. (528) 124)

Heart rate

1,4-Butanediol; Schedule-controlled behavior; Mean arterial pressure; Radio telemetry; Rat (Gerak, L.R. (506) 75)

5-HT_{1A} receptor; Stress; Blood pressure; Anxiolytic; Strain difference (van den Buuse, M. (507) 187)

β-adrenoceptors; Peroxynitrite; Redox; Nitration; Vasodilation; (Rat) (Lewis, S.J. (518) 187)

Heat shock factor

Cyclooxygenase-2; Heat shock protein 72; Nuclear factor- κ B; Transcription factor (Ialenti, A. (509) 89)

Heat shock protein

Neonatal rat cardiomyocyte; Cyclosporin A; Ischemia–reperfusion; Electrophysiology; Cell contraction; Protein release; Mitochondria (Bès, S. (511) 109)

Heat shock protein 72

Cyclooxygenase-2; Heat shock factor; Nuclear factor- κ B; Transcription factor (Ialenti, A. (509) 89)

HEK 293 cell

GABA_A receptor; Flumazenil; Diazepam; GABA (γ -aminobutyric acid); [³H]flunitrazepam binding (Peričić, D. (507) 7)

HEK 293 cells

Ba²⁺; Hyperpolarization-activated cation channels; In situ patch clamp (van Welie, I. (507) 15)

HEK293 cells

Ryanodine receptor; Ca²⁺ release; Capacitative Ca²⁺ entry (Luo, D. (509) 109)

Helenalin

Cell differentiation; Protein kinase C; Extracellular signal-regulated kinase; Nuclear factor- κ B (Kim, S.H. (511) 89)

Heme

Soluble guanylate cyclase; Nitric oxide; cGMP; BAY 58-2667; BAY 41-2272; YC-1 (Schmidt, P.M. (513) 27)

Heme oxygenase-1

Quercetin; Inducible nitric oxide synthase; Nuclear factor- κ B; Signal transducer and activator of transcription-1; Microglia (Chen, J.-C. (521) 9)

Hemodynamics

Conivaptan hydrochloride; Myocardial infarction; Vasopressin; Vasopressin V_{1A} receptor; Vasopressin V₂ receptor; Aquaretic effect (Wada, K.-i. (507) 145)

Hepatitis

Y-40138; TNF- α ; IFN- γ ; IL-4; Chemokine; Pentoxifylline; Anti-TNF- α antibody; Concanavalin A (Fukuda, T. (523) 137)

Hepatocyte

Ethanol; Acetaldehyde; p42/44 MAPK; JNK; Apoptosis (Lee, Y.J. (508) 31)

β -Cyclodextrin; Cytotoxicity; Dehydrocrotonin; V79 cell (Corrêa, D.H.A. (510) 17)

Leucine; DNA synthesis; Proliferation (Kimura, M. (510) 167)

Hepatocyte growth factor

Gastric damage; COX-2 (cyclooxygenase-2); Adrenomedullin; CGRP (calcitonin gene-related peptide) receptor (Cantarella, G. (518) 221)

HepG2 cell

Chenodeoxycholic acid; Cholesterol 7 α -hydroxylase; CYP7A1; Induction; 2,4,6-Trihydroxyacetophenone (Charoenteeraboon, J. (515) 43)

hERG

Trazodone; QT-interval; Polymorphous ventricular tachycardia; Torsade de pointes (Tarantino, P. (510) 75)

HERG

QT interval; Risk assessment; (Dog) (Schneider, J. (512) 53)

HERG (human ether-a-go-go related gene)

QTc interval prolongation; Propranolol (Yao, X. (519) 208)

Heroin

Addiction; Dependence; Behavioral economics; Choice; Dopamine; Lateral hypothalamus; Cocaine; Prefrontal cortex (Ahmed, S.H. (526) 9)

Cocaine; Conditioned drug cues; Extinction; Incubation; Reinstatement; Relapse; Review; Stress (Bossert, J.M. (526) 36)

Hesperidin

Flavonoid; Diazepam; Synergy; Sedation; Sleep-enhancing action (Fernández, S.P. (512) 189)

Heterologous expression

Protopine; K_{ATP} channel; Sulphonylurea receptor; BK_{Ca} channel (Jiang, B. (506) 93)

HI-6

Acetylcholine; HLö-7; Oxime; Pralidoxime; Toxogonin; Soman (Øydvin, O.K. (516) 227)

High throughput screening

Glycine receptor; FLIPR® Membrane Potential Assay (Jensen, A.A. (521) 39)

High-fat diet

Vascular contractility; Endothelial dysfunction; Fenofibrate; Hypertriglyceridaemia (Naderali, E.K. (521) 99)

Hippocampal slice

Acetylcholinesterase; Anticonvulsant; Epileptiform activity; Organophosphate; Soman (Harrison, P.K. (518) 123)

5-carboxamidotryptamine; Adaptive change; Epileptiform activity; WAY 100635; SB 269970 (Tokarski, K. (524) 60)

Hippocampal synaptosome

Ginkgolide B; Glutamate exocytosis; Presynaptic voltage-dependent Ca²⁺ influx; Protein kinase A (Wang, S.-J. (514) 141)

Hippocampus

Excitotoxicity; FAK; MAPK; Survival signaling (Karanian, D.A. (508) 47)

Stereotaxic surgery; Cyclooxygenase; Morris water maze (Sharifzadeh, M. (511) 159)

Free radical scavenger; Transient cerebral ischemia; Long-term potentiation; $\cdot$ OH (hydroxyl radical); NOS (NO synthase) (Otani, H. (512) 129)

Kynurenic acid; Probenecid; Glucosamine-kynurenic acid; Neuroprotection; (Rat) (Robotka, H. (513) 75)

G protein; Pregnenolone sulfate; Presynaptic receptor; Sigma receptor; Steroid (Schiess, A.R. (518) 22)

Muscimol; Pyruvate; Glucose; Metabolism; Spontaneous alternation; Shock avoidance (Krebs, D.L. (520) 91)

Histamine

5-Lipoxygenase; Phorbol ester; Inflammation; Extravasation (Giannaras, A. (506) 265)

Gastric ulcer; Histamine receptor antagonist; Capsaicin; Gastric mucosal blood flow; Interleukin-1 β (Dembiński, A. (508) 211)

Oedema; Inflammation; Opioid receptor; Plasma extravasation (Romero, A. (511) 207)

Galanin; Galanin fragment; Galanin antagonist; Vasopressin secretion; Hyperosmosis (Molnár, A. (516) 174)

Colonic secretion; Ontogeny; Ion transport development; Bethanechol; 5-Hydroxytryptamine (Mrnka, L. (516) 268)

H₂ receptor; H₂ receptor antagonist; Zolantidine; Improgan (Hough, L.B. (522) 38)

Histamine H₁ receptor; Tachykinin NK₁ receptor; NMDA receptor; Nociceptive response; Histidine decarboxylase gene knockout mouse (Yoshida, A. (522) 55)

Histamine H₁ antagonist

Antihistamine; Anticholinergic; Carbachol; Acetylcholine (Orzechowski, R.F. (506) 257)

Histamine H₁ receptor

Histamine; Tachykinin NK₁ receptor; NMDA receptor; Nociceptive response; Histidine decarboxylase gene knockout mouse (Yoshida, A. (522) 55)

Histamine H₁ receptor antagonist

Olopatadine hydrochloride; Scratching; Atopic dermatitis; Animal model (Tamura, T. (524) 149)

Histamine H₄ receptor antagonist

JNJ 7777120; JNJ 10191584; Colitis; Inflammatory bowel disease; Neutrophil; Tumour necrosis factor- α (Varga, C. (522) 130)

Histamine receptor antagonist

Histamine; Gastric ulcer; Capsaicin; Gastric mucosal blood flow; Interleukin-1 β (Dembiński, A. (508) 211)

Histidine

Diabetes; Carnosine; Hyperlipidemia; Cytokine (Lee, Y.-t. (513) 145)

Histidine decarboxylase

In situ hybridization; Betahistine dihydrochloride; Tuberomammillary nuclei; (Cat) (Tighilet, B. (523) 54)

Histidine decarboxylase gene knockout mouse

Histamine; Histamine H₁ receptor; Tachykinin NK₁ receptor; NMDA receptor; Nociceptive response (Yoshida, A. (522) 55)

H⁺/K⁺-ATPase

Rat atrium; Inotropy; Omeprazole; Lansoprazole; SCH 28080 (Yenisehirli, A. (519) 259)

HLö-7

Acetylcholine; HI-6; Oxime; Pralidoxime; Toxogonin; Soman (Øydvín, O.K. (516) 227)

HMR 1556

Azimilide; Dofetilide; Ischemia–reperfusion; Delayed outward rectifier; (Guinea-pig) (Ducroq, J. (518) 165)

Hole-board test

5-HT₇ (5-hydroxytryptamine₇) receptors; Exploratory behavior; Monoamines; Amygdala; (Mouse) (Takeda, H. (518) 30)

Homeostasis

ATPase; Caloxin 2A1; Erythrocyte; Signal transduction (Pande, J. (508) 1)

Homocysteine

Captopril; Endothelium-dependent relaxation; ADMA (Asymmetric dimethylarginine); NO (Nitric oxide); (Rat) (Fu, Y.-F. (508) 167)

Endothelium; Kynurenic acid; S-adenosylhomocysteine (Stazka, J. (517) 217)

Honokiol

Cortical neuron, rat; Neurite outgrowth; ERK1/2; CaMK II (Zhai, H. (516) 112)

Horse dorsal penile vein

Acetylcholine; Nitric oxide; Cyclic GMP; Potassium channel; Prostanoid; Endothelial muscarinic receptor (Martínez, A.C. (515) 150)

Hot plate

Tramadol; Serotonin; Selective 5-HT_{1A}/5-HT_{1B} receptor antagonist; Antinociception; (Mice) (Rojas-Corralles, M.O. (511) 21)

Hot plate test

N/OFQ (nociceptin/orphanin FQ); R-K, paracetamol; UFP-101; Analgesia (Sandrini, M. (507) 43)

[³H]Ro19-6327 (lazabemide)

β -carboline; Norharman; Imidazoline I₂ receptor; [³H]2-BFI; [³H]Ro41-1049; Morphine addiction; (Rat) brain and liver (Miralles, A. (518) 234)

[³H]Ro41-1049

β -carboline; Norharman; Imidazoline I₂ receptor; [³H]2-BFI; [³H]Ro19-6327 (lazabemide); Morphine addiction; (Rat) brain and liver (Miralles, A. (518) 234)

5-HT efflux

Vilazodone; EMD-68843; Voltammetry; 5-HT re-uptake (Roberts, C. (517) 59)

5-HT receptor

Firing activity; Antidepressant; Idazoxan; Noradrenaline; α_2 -Adrenoceptor (Grandoso, L. (517) 51)

5-HT re-uptake

Vilazodone; EMD-68843; Voltammetry; 5-HT efflux (Roberts, C. (517) 59)

5-HT transporter

Serotonin; Aggression; 5-HT_{1B} receptor; 5-HT_{1A} receptor (Olivier, B. (526) 207)

5-HT_{1A}

Selective serotonin reuptake inhibitor; Ejaculation; Antidepressant; c-fos (de Jong, T.R. (509) 49)

Aggression; Resident–intruder; Serotonin; 5-HT_{1B}; (Rat) (de Boer, S.F. (526) 125)

5-HT_{1A} (5-Hydroxytryptamine_{1A}) receptor

Clomethiazole; Body temperature; Tolerance; Pharmacodynamic interaction; GABA_A (γ -Aminobutyric acid_A) receptor; NMDA (*N*-methyl-D-aspartate) receptor; Hypothermia (Visser, S.A.G. (512) 139)

5-HT_{1A} receptor

Stress; Blood pressure; Heart rate; Anxiolytic; Strain difference (van den Buuse, M. (507) 187)

MM-77; Anxiety; Stress; (Mouse) (Alfredo, B.-A. (508) 155)

Serotonin (5-hydroxytryptamine, 5-HT); Microdialysis; Frontal cortex; Paroxetine; *N*-[2-[4-(2-methoxyphenyl)-1-piperazinyl]ethyl]-*N*-(pyridinyl)-cyclohexanecarboxamide (WAY-100635); 8-Hydroxy-2-(di-*n*-propylamino)tetralin (8-OH-DPAT) (Hughes, Z.A. (510) 49)

c-Fos protein; Formalin; F 13640; Morphine; Rat spinal cord (Buritova, J. (514) 121)

Serotonin; G protein; [³⁵S]GTPγS binding; Cerebral cortex (Odagaki, Y. (521) 49)

Short-term memory; Fluoxetine; Bupirone; 8-OH-DPAT (8-hydroxy-di-*n*-propylamino tetralin); WAY100635 (Fernández-Pérez, S. (522) 78)

Serotonin; Orthopedic surgery; Intra-operative pain; Postoperative pain; Opioid hyperalgesia (Kiss, I. (523) 29)

Serotonin; Aggression; 5-HT_{1B} receptor; 5-HT transporter (Olivier, B. (526) 207)

5-HT_{1A} receptor agonist

Serotonin; 5-HT_{2A} receptor antagonist; 5-HT₃ receptor antagonist; Anxiety (Delgado, M. (511) 9)

5-HT_{1B}

Aggression; Resident-intruder; Serotonin; 5-HT_{1A}; (Rat) (de Boer, S.F. (526) 125)

5-HT_{1B} receptor

Serotonin; Aggression; 5-HT transporter; 5-HT_{1A} receptor (Olivier, B. (526) 207)

5-HT_{1B} receptor ligand

p-Chlorophenylalanine; Idazoxan; Sulpiride; Forced swimming test in mice (Tatarczyńska, E. (516) 46)

5-HT₂ receptor

5-hydroxytryptamine; Deoxycorticosterone acetate; Experimental hypertension; Mianserin (Silva, A.L.S. (518) 152)

5-HT_{2A}

Endocannabinoid; Alpha-amino-3-hydroxy-5-methyl-4-isoxazolepropionic acid (AMPA); Kainate; Wet dog shake; (Rat) (Gorzalka, B.B. (516) 28)

5-HT_{2A} receptor

5-HT_{2B} receptor; Canine; Radioligand binding; Cloning (Bonaventure, P. (513) 181)

Insulin; Internalization; Ca²⁺ transient (Ohkura, M. (518) 18)

Serotonin; Pancreatitis; R-102444; R-96544 (Ogawa, T. (521) 156)

5-HT_{2A} receptor antagonism

Gastric pentadecapeptide BPC 157; Pargyline/L-tryptophan; Serotonin syndrome; (Rats) (Boban Blagaic, A. (512) 173)

5-HT_{2A} receptor antagonist

Serotonin; 5-HT_{1A} receptor agonist; 5-HT₃ receptor antagonist; Anxiety (Delgado, M. (511) 9)

5-HT_{2A} receptor-mediated current response

Isorhynchophylline; Isocorynoxine; *Uncaria* alkaloid; 5-HT_{2A} receptor-mediated head twitch response; *Xenopus* oocyte (Matsumoto, K. (517) 191)

5-HT_{2A} receptor-mediated head twitch response

Isorhynchophylline; Isocorynoxine; *Uncaria* alkaloid; 5-HT_{2A} receptor-mediated current response; *Xenopus* oocyte (Matsumoto, K. (517) 191)

5-HT_{2B} receptor

5-HT_{2A} receptor; Canine; Radioligand binding; Cloning (Bonaventure, P. (513) 181)

5-HT_{2B} receptor agonism

Pergolide; Cabergoline; Bromocriptine; Lisuride; Terguride; Valvular heart disease (Jähnichen, S. (513) 225)

5-HT_{2C} receptor

Place conditioning; Locomotor activity; (Rat) (Mosher, T. (515) 107)

5-HT₃ receptor

Cisplatin; Nausea; Emesis; Tachykinin NK₁ receptor; Anti-emetic (Lau, A.H.Y. (506) 241)

Cannabinoid receptor ligand; Cocaine; Locomotor activity (Przegaliński, E. (517) 68)

5-HT₃ receptor antagonist; MDL72222; Y25130; β-Amyloid protein; Neurotoxicity; Cortical neuron; Neuroprotection (Ju Yeon Ban (520) 12)

α₂-Adrenoceptor; MD-354 (*m*-chlorophenylguanidine); Antinociception; In vivo model (Dukat, M. (528) 59)

5-HT₃ receptor antagonist

Serotonin; 5-HT_{1A} receptor agonist; 5-HT_{2A} receptor antagonist; Anxiety (Delgado, M. (511) 9)

MDL72222; Y25130; 5-HT₃ receptor; β-Amyloid protein; Neurotoxicity; Cortical neuron; Neuroprotection (Ju Yeon Ban (520) 12)

5-HT₃ serotonin receptor binding

NG 108-15 cell; Allosteric modulation; Slope of displacement; Verapamil; Ifenprodil (Maksay, G. (514) 17)

5-HT₇ (5-hydroxytryptamine₇) receptors

Exploratory behavior; Hole-board test; Monoamines; Amygdala; (Mouse) (Takeda, H. (518) 30)

HTS (high throughput screening)

Cdc25B; Selectivity; MCF-7; Antiproliferation; Cdk1 (cell-cycle-dependent kinase 1) (Kim, K.-R. (528) 37)

human

N-formylmethionyl peptide; Neutrophil; Chemotaxis; Superoxide anion generation; Lysozyme release; Receptor binding (Cavicchioni, G. (512) 1)

Human

Sildenafil; Cerebral artery; Phosphodiesterase 5; Migraine (Kruuse, C. (521) 105)

Dopamine; Addiction; Attention; Craving; Reward (Franken, I.H.A. (526) 199)

Human adenosine A₁ receptor

Internalization; Allosteric modulation; PD 81,723; SCH-202676; YFP (Klaasse, E.C. (522) 1)

Human AMPA-type receptor

Desensitization; Propofol; Patch-clamp; Fast solution exchange (Krampfl, K. (511) 1)

Human bronchiole

Human pulmonary artery; Nitric oxide donor; Soluble guanylyl cyclase; Large-conductance calcium-activated potassium channel (Elmedal, B. (516) 78)

Human CCR5 transgenic mouse

Chemokine CCR5 receptor; Receptor occupancy; Pharmacodynamics (Saita, Y. (518) 227)

Human epidermoid carcinoma A431 cell

TRPC1; TRPC5; Capacitative Ca^{2+} entry; Thapsigargin; Uridine 5'-triphosphate (Yoshida, J. (510) 217)

Human internal mammary artery

Acidosis; ATP-sensitive potassium channel; pH; Vascular smooth muscle (Rohra, D.K. (514) 175)

Human lung squamous carcinoma cell line CH27

Luteolin; Apoptosis; Cell cycle; Comet assay; DNA repair enzyme (Leung, H.W.-C. (508) 77)

Human myocardium

Gliclazide; Glibenclamide; Preconditioning (Loubani, M. (515) 142)

Human nicotinic acetylcholine receptor

Galanthamine; Scopolamine; Tacrine; *Xenopus laevis* oocyte; Two-micro-electrode voltage clamp (Smulders, C.J.G.M. (509) 97)

Human pulmonary artery

Human bronchiole; Nitric oxide donor; Soluble guanylyl cyclase; Large-conductance calcium-activated potassium channel (Elmedal, B. (516) 78)

Huperzine A

Oxidative stress; Nerve growth factor; MAP (mitogen-activated protein) kinase; TrkA (tyrosine kinase A) receptor (Tang, L.-L. (519) 9)

Hydrogen bonding

GBR 12935 derivative; Dopamine transporter; Monoamine uptake; Cocaine antagonist; Striatum; (Rat) (Zhen, J. (506) 17)

Hydrogen peroxide

Endothelium; Smooth muscle; Endothelium-derived hyperpolarizing factor; Membrane potential (Gluais, P. (513) 219)

Hydrogen sulfide (H_2S)

Capsaicin; Sensory neuron; Urinary bladder (Patacchini, R. (509) 171)

(±)-8-hydroxy-2-(di-*n*-propylamino) tetralin hydrobromide (8-OH-DPAT)

Swim stress; Convulsions; WAY-100635; 1-(2,5-dimethoxy-4-iodophenyl)-2-aminopropane (DOI); Ketanserin (Peričić, D. (527) 105)

8-Hydroxy-2-(di-*n*-propylamino)tetralin (8-OH-DPAT)

Serotonin (5-hydroxytryptamine, 5-HT); Microdialysis; Frontal cortex; Paroxetine; *N*-[2-[4-(2-methoxyphenyl)-1-piperazinyl]ethyl]-*N*-(pyridinyl)-cyclohexanecarboxamide (WAY-100635); 5-HT_{1A} receptor (Hughes, Z.A. (510) 49)

6-hydroxydopamine

Adenosine A_{2A} antagonist; Parkinson's disease; Dopamine; L-DOPA (L-dihydroxy-phenylalanine) (Pinna, A. (512) 157)

5-hydroxyindoleacetic acid

Aggression; Genetics; Serotonin transporter; Monoamine oxidase A; Microdialysis; (Monkey); (Mice); (Rat) (Francesco Ferrari, P. (526) 259)

γ-hydroxybutyric acid

D2 receptors; Haloperidol; Streptozotocin; Dizocilpine (Sevak, R.J. (517) 64)

Hydroxylamine

N^ω-hydroxy-L-arginine homologue; Nitric oxide release; Vasorelaxation; Electron paramagnetic resonance (Beranova, P. (516) 260)

(4-hydroxy-2-nonenal)

Edaravone; Cochlear protection; Antioxidant; Reactive oxygen species; Acoustic trauma; 4-HNE (Tanaka, K. (522) 116)

5-Hydroxytryptamine_{2A} receptor antagonist

Analgesia; Acute pain; Inflammation; Spinal cord (Nishiyama, T. (516) 18)

5-hydroxytryptamine

Deoxycorticosterone acetate; Experimental hypertension; 5-HT₂ receptor; Mianserin (Silva, A.L.S. (518) 152)

5-Hydroxytryptamine

Colonic secretion; Ontogeny; Ion transport development; Bethanechol; Histamine (Mrnka, L. (516) 268)

5-hydroxytryptamine₃ receptor

Transmural electrical stimulation; Short-circuit current; Muscarinic cholinergic receptor; Intestinal mucosa (Townsend IV, D. (519) 285)

5-hydroxytryptophan

Lamotrigine; Bipolar; Monoamine oxidase inhibition; Moclobemide; Tyramine (Southam, E. (519) 237)

5-Hydroxytryptophan

Tetrandrine; Sleep; Pentobarbital; Serotonergic system (Zhao, X. (506) 101)

Hyperactivity

Carnosine; Nitric oxide; Nitric oxide synthase; Chick (Tomonaga, S. (524) 84)

Hyperalgesia

MPEP; MTEP; Glutamate; Allodynia; Modality (Zhu, C.Z. (506) 107)

N/OFQ (nociceptin/orphanin FQ); NOP receptor antagonist; JTC-801; Allodynia (Tamai, H. (510) 223)

Type 1 diabetes; Non-obese diabetic mice; Kinin; Bradykinin B₁ receptor; desArg⁹bradykinin; R-715; R-954 (Gabra, B.H. (514) 61)

Nicotine; Withdrawal; Knockout (Grabus, S.D. (515) 90)

Allodynia; Gaboxadol; GABA_A receptor; Isoguvacine; Zolpidem (Rode, F. (516) 131)

Oxycodone; Diabetes; κ-Opioid receptor; Antinociception (Nozaki, C. (524) 75)

Hypercalcaemia

Bisphosphonate; Renal dysfunction (Komatsu, Y. (507) 317)

Hypercholesterolemia

Rho-kinase; Endothelial dysfunction (Steioff, K. (512) 247)

Hyperglycemia

Diabetes; Cataract; Hyperlipidemia; Lipid peroxide (Yoshida, M. (513) 159)

Hypericin

St. John's wort; Angiogenesis inhibitor; Bovine endothelial cells (Martínez-Poveda, B. (516) 97)

Hyperlipidemia

Diabetes; Histidine; Carnosine; Cytokine (Lee, Y.-t. (513) 145)

Diabetes; Cataract; Hyperglycemia; Lipid peroxide (Yoshida, M. (513) 159)

Hyperosmosis

Galanin; Galanin fragment; Galanin antagonist; Vasopressin secretion; Histamine (Molnár, A. (516) 174)

Hyperpolarisation

EDHF (Endothelial derived hyperpolarising factor); 14,15 EEZE; U46619; Mesenteric artery; mouse (Harrington, L.S. (506) 165)

Hyperpolarization

Renal artery; Nebivolol; Vasodilation (Georgescu, A. (508) 159)

Hyperpolarization-activated cation channels

Ba²⁺; In situ patch clamp; HEK 293 cells (van Welie, I. (507) 15)

Hyperpolarization-activated channel

Calcium-calmodulin; cAMP; Sino-atrial (Chatelier, A. (521) 29)

Hyperreactivity

Nitric oxide; Eosinophil; Airway inflammation; Asthma (Landgraf, R.G. (518) 212)

Hypertension

Rho-kinase; eNOS; Endothelial function; Nitric oxide; Y27632 (Löhn, M. (507) 179)

Fructose; *N*-acetylcysteine; Oxidative stress; Insulin resistance (Song, D. (508) 205)

β-Adrenoceptor; β-Adrenoceptor antagonist; D/L-Nebivolol; NO (nitric oxide); Vasodilation (Sacco, G. (511) 167)

Oxidative stress; Gene expression; Left ventricular hypertrophy; Energy metabolism (Chon, H. (513) 21)

K⁺ current density; Sarcoplasmic reticulum; Ryanodine receptor (Zhang, Y. (514) 111)

Basal vascular tone; Mitogen-activated protein kinase; Vascular smooth muscle; Protein kinase C (Kim, J. (514) 209)

Endothelial dysfunction; NO (nitric oxide); Bradykinin; Angiotensin-converting enzyme inhibitor; AT₁-receptor antagonist (De Gennaro Colonna, V. (516) 253)

Quinapril; Atorvastatin; Apoptosis; Confocal microscopy; Morphometry; Vascular reactivity (Yang, L. (518) 145)

Diabetes; Angiotensin converting enzyme inhibition; Vasoepitidase inhibition; Cardiomyopathy (Grönholm, T. (519) 267)

Hypertriglycerideamia

High-fat diet; Vascular contractility; Endothelial dysfunction; Fenofibrate (Naderali, E.K. (521) 99)

Hypertrophy

Cardiac; Diabetes; PPARγ; Troglitazone; Protein kinase C (Bell, D. (508) 69)

Angiotensin I-converting enzyme inhibitor; Angiotensin II type 1 receptor blocker; Calpain; Dystrophin glycoprotein complex; Myocardial infarction (Takahashi, M. (522) 84)

Hypothalamus

Peptide YY; Dopamine; Norepinephrine; Serotonin (Brunetti, L. (519) 48)

Hypothermia

Clomethiazole; Body temperature; Tolerance; Pharmacodynamic interaction; GABA_A (γ-Aminobutyric acid_A) receptor; 5-HT_{1A} (5-Hydroxytryptamine_{1A}) receptor; NMDA (*N*-methyl-D-aspartate) receptor (Visser, S.A.G. (512) 139)

TRPV1 receptor antagonist; JYL1421 (SC0030); Sensory neuropeptide release; Ca²⁺ accumulation; Wiping test; Pulmonary chemoreflex (Jakab, B. (517) 35)

Hypothyroidism

Blood pressure; Adrenoceptor; Muscarinic receptor; Nitric oxide (NO) (Iwata, T. (507) 311)

Hypoxia

KR-31378; Potassium channel; Protein kinase C-ε; Cardiac cell (Moon, C.-H. (506) 27)

Hypoxic cor pulmonale; Angiotensin II-receptor blocker; Olmesartan medoxomil; Remodeling; Collagen; Brain natriuretic peptide; TGF-β (Nakamoto, T. (528) 43)

Hypoxia1

KR-32570; Na⁺/H⁺ exchanger; H9c2 cardiomyocyte (Kim, M.J. (525) 1)

Hypoxic cor pulmonale

Angiotensin II-receptor blocker; Olmesartan medoxomil; Hypoxia; Remodeling; Collagen; Brain natriuretic peptide; TGF-β (Nakamoto, T. (528) 43)

Hypoxic respiratory response

[Dmt¹]DALDA; Morphine; Respiratory depression (Shimoyama, M. (511) 199)

ICAM-1 (intercellular adhesion molecule 1)

T cell; Leukocyte; cGMP-dependent protein kinase; Adhesion molecule; Tumor necrosis factor-α; E-selectin (Wong, D. (514) 91)

ICAM-1 (intercellular adhesion molecule-1)

Asthma; Common cold; Proton pump; Lansoprazole (Sasaki, T. (509) 201)

Icariin

Embryonic stem cells; Directional differentiation; Embryoid body; Cardiomyocyte; Sarcomere; Cell cycle; Apoptosis; p53 (Zhu, D. (514) 99)

Icatibant

Binding site; Cyclic peptide; G protein-coupled receptor; Site-directed mutagenesis (Cucchi, P. (528) 7)

i.c.v. self-administration

Δ⁹-THC; Conditioned place preference (Bairda, D. (506) 63)

Idazoxan

5-HT_{1B} receptor ligand; *p*-Chlorophenylalanine; Sulpiride; Forced swimming test in mice (Tatarczyńska, E. (516) 46)

Firing activity; Antidepressant; 5-HT receptor; Noradrenaline; α₂-Adrenoceptor (Grandoso, L. (517) 51)

Ifenprodil

5-HT₃ serotonin receptor binding; NG 108-15 cell; Allosteric modulation; Slope of displacement; Verapamil (Maksay, G. (514) 17)

IFN- γ

Y-40138; TNF- α ; IL-4; Chemokine; Pentoxifylline; Anti-TNF- α antibody; Concanavalin A; Hepatitis (Fukuda, T. (523) 137)

IgG

Neutrophils; Apoptosis; Necrotic morphological change; Kawasaki disease (Sugita, K. (513) 141)

IL-31

Scratching; NC/Nga mice (Takaoka, A. (516) 180)

IL-4

IL-6; pH; Asthma; Airway inflammation (Carpagnano, G.E. (519) 175)

Y-40138; TNF- α ; IFN- γ ; Chemokine; Pentoxifylline; Anti-TNF- α antibody; Concanavalin A; Hepatitis (Fukuda, T. (523) 137)

IL-6

IL-4; pH; Asthma; Airway inflammation (Carpagnano, G.E. (519) 175)

Ileum

Streptozotocin-diabetes; Colon; Calcium; Motility; (rat) (Forrest, A. (509) 77)

Nitrgenic neuron; Nitric oxide; Peristalsis; Propelled liquid volume; (Hamster) (Shiina, T. (517) 120)

Imaging

Serotonin transporter; Genetics; Alcohol dependence; Addiction; Environment; Plasticity (Lesch, K.-P. (526) 113)

Imidazoline binding sites

Pig brain; Monoamine oxidase (Anderson, N.J. (519) 68)

Imidazoline I₂ binding site

[³H]2-BFI; Autoradiography; MAO-B; Brain; (Mouse) (MacInnes, N. (516) 139)

Imidazoline I₂ receptor

β -carboline; Norharman; [³H]2-BFI; [³H]Ro41-1049; [³H]Ro19-6327 (lazabemide); Morphine addiction; (Rat) brain and liver (Miralles, A. (518) 234)

Imidazoline receptor

Agmatine; Morphine; Conditioned place preference (Wei, X.-L. (515) 99)

Imidazoline₁-binding site

α_2 -Adrenoceptor; Body temperature (Cambridge, N. (519) 86)

Imipramine

Depression; Acetylcholine nicotinic receptor; Antidepressant; Dopamine-mimetic-induced locomotor stimulation; β -adrenoceptor down-regulation (Popik, P. (515) 128)

Immobility

GABA_A receptor; General anaesthetic; Knock-in mice; Unconsciousness (Lambert, S. (516) 23)

Immune

Interferon α ; β ; γ ; Endocrine; Sleep; Food; Temperature; Glucose sensitive; Opiate; Naloxone (Dafny, N. (523) 1)

Immune response

Nicotinic receptor; Lymphocyte (Skok, M. (517) 246)

Immunophilin

Nerve growth factor; MAP kinase; Neurite outgrowth (Price, R.D. (509) 11)

Immunoprophylaxis

Cry j 2; Pollinosis; Oral tolerance; T cell epitope (Murasugi, T. (510) 143)

Improgan

Histamine; H₂ receptor; H₂ receptor antagonist; Zolantidine (Hough, L.B. (522) 38)

Impulse regulation

Aggression; Antidepressant; Negative affect; Personality trait; Dominance; Affiliative behaviour (Bond, A.J. (526) 218)

Impulsivity

Drug addiction; Habit; Compulsion; Sensitization; Tolerance; Allostasis; Prefrontal cortex; Orbitofrontal cortex; Dorsal striatum; Nucleus accumbens (Vanderschuren, L.J.M.J. (526) 77)

In situ hybridization

Histidine decarboxylase; Betahistine dihydrochloride; Tuberomammillary nuclei; (Cat) (Tighilet, B. (523) 54)

In situ patch clamp

Ba²⁺; Hyperpolarization-activated cation channels; HEK 293 cells (van Welie, I. (507) 15)

In vitro slice preparation

Antipsychotic drug; Seroquel; Dopamine D2 autoreceptor; Extracellular recording (Werkman, T.R. (506) 47)

In vivo microdialysis

Nicotine; Epibatidine; Nomifensine; Dopamine; Nucleus accumbens; Caudate-putamen (Janhunen, S. (511) 143)

Lithium carbonate; Milnacipran; Noradrenaline; Dopamine; Serotonin (Kitaichi, Y. (516) 219)

Milnacipran; Noradrenaline; Dopamine; Serotonin (Kitaichi, Y. (520) 37)

In vivo model

α_2 -Adrenoceptor; 5-HT₃ receptor; MD-354 (*m*-chlorophenylguanidine); Antinociception (Dukat, M. (528) 59)

Incapacitation

Transdermal patch; Physostigmine; Procyclidine; Soman; Mortality; Brain injury (Kim, W.-S. (525) 135)

Incubation

Cocaine; Conditioned drug cues; Extinction; Heroin; Reinstatement; Relapse; Review; Stress (Bossert, J.M. (526) 36)

Independence

Ciglitazone; Peroxisome proliferator-activated receptor γ ; Cyteinyl-leukotrienes; Mast cell (Okuyama, K. (521) 21)

Indomethacin

Ramatroban; CRTH2 (Chemoattractant receptor-homologous molecule expressed on Th2 cells); 15d-PGJ₂ (15-deoxy- $\Delta^{12,14}$ -PGJ₂); Competitive inhibitory effect (Sugimoto, H. (524) 30)

Inducible and neuronal nitric oxide synthase

Nitric oxide; Halogenated volatile anaesthetic; EPR spectroscopy; Lipopolysaccharide; NOS inhibitor (Sjakste, N. (513) 193)

Inducible nitric oxide synthase

FR260330; Dimerization (Chida, N. (509) 71)

Cyclooxygenase; Pyrexia; Interaction; Isobologram (Bhat, A.-S. (511) 137)

Nitrotyrosine; Isoprostan; Cardiac contractility; Antioxidant (Cheng, X. (519) 118)

Aromatic diamine compound; Nuclear factor- κ B; Anti-inflammation; Macrophages (Shin, H.-M. (521) 1)Quercetin; Nuclear factor- κ B; Signal transducer and activator of transcription-1; Heme oxygenase-1; Microglia (Chen, J.-C. (521) 9)**Induction**Chenodeoxycholic acid; Cholesterol 7 α -hydroxylase; CYP7A1; HepG2 cell; 2,4,6-Trihydroxyacetophenone (Charoenteeraboon, J. (515) 43)**Infarct size**

Arrhythmia; Fasudil; Preconditioning; Rho-kinase (Demiryörek, Ş. (527) 129)

Inflammation

5-Lipoxygenase; Histamine; Phorbol ester; Extravasation (Giannaras, A. (506) 265)

 α -Naphthylthiourea; Morphine; Naloxone methiodide; Pulmonary oedema (Comert, M. (511) 183)

Oedema; Histamine; Opioid receptor; Plasma extravasation (Romero, A. (511) 207)

Analgesia; Acute pain; Spinal cord; 5-Hydroxytryptamine_{2A} receptor antagonist (Nishiyama, T. (516) 18)

Arthritis; Statin; Nociception; Cytokine (Barsante, M.M. (516) 282)

Cyclooxygenase-2; Carrageenan-induced paw edema; Air pouch model; THP-1 cell line (Yin, L.-L. (520) 172)

Asthma; Late phase response; Mast cell; Corticosteroid; Cytokine (Nabe, T. (521) 144)

Monogalactosyldiglyceride; Croton oil; Carrageenan; Cyclooxygenase; Lipoxygenase (Bruno, A. (524) 159)

ABC transporter; Antiobesity drug; Cardiovascular disease; Cardiovascular drug; Drug-metabolizing enzyme; Drug target; Nutrigenetics; Nutrigenomics; Obesity; Pharmacodynamic; Pharmacogenetic; Statin (Siest, G. (527) 1)

Inflammation marker

Azithromycin; Neutrophil; Chronic obstructive pulmonary disease (COPD); Cytokine (Parnham, M.J. (517) 132)

Inflammatory bowel disease

Nitric oxide synthase; Oxidative stress (Di Paola, R. (507) 281)

Histamine H₄ receptor antagonist; JNJ 7777120; JNJ 10191584; Colitis; Neutrophil; Tumour necrosis factor- α (Varga, C. (522) 130)**Inflammatory pain**

Analgesic; Neuropathic pain; Nociception; (Rat, Mouse) (Christoph, T. (507) 87)

Cannabinoid CB₂ receptor; GW405833; Neuropathic pain; Knockout; Opioid (Whiteside, G.T. (528) 65)**iNOS (inducible nitric oxide synthase)**Brazilin; NO (nitric oxide); NF- κ B (nuclear factor- κ B); AP-1 (activator protein-1); Anti-inflammatory (Bae, I.-K. (513) 237)**Inositol 1,4,5-triphosphate**

PACAP-27 (pituitary adenylate cyclase activating peptide); Phospholipase C; Mouse ileum; Muscular inhibition (Zizzo, M.G. (521) 133)

InotropicCarvedilol; Congestive heart failure; α_1 -Adrenoceptor; β -Adrenoceptor; Lusitropic (Qvigstad, E. (516) 51)**Inotropic effect**Ca²⁺ transient; Endothelin-1; Wortmannin; Rabbit cardiac myocyte (Chu, L. (507) 135)

Neurotensin; Ventricular contractility (Osadchii, O. (520) 108)

InotropyH⁺/K⁺-ATPase; Rat atrium; Omeprazole; Lansoprazole; SCH 28080 (Yenisehirli, A. (519) 259)**Insulin**

Blood pressure; Glucose; Renin angiotensin system; Sympathetic nervous system; Vasodilation (Villafañá, S. (506) 143)

5-HT_{2A} receptor; Internalization; Ca²⁺ transient (Ohkura, M. (518) 18)Dipeptidyl peptidase-IV; Glucagon-like peptide-1; Oral glucose tolerance test; *Ob/ob* mice (Kim, K.-R. (518) 63)

Sodium tungstate; Somatostatin; Rat pancreas (Silvestre, R.A. (519) 127)

Rosiglitazone; Myeloprotection; Stem cell; CFU-GM (Granulocyte-macrophage progenitor cell); Neutropenia (Djazayeri, K. (522) 122)

SSAO (Semicarbazide-sensitive amine oxidase); Monoamine oxidase; Diabetes; Adipose tissue (Visentin, V. (522) 139)

Kinin; Bradykinin; Glucose; Rat uterus; Angiotensin-converting enzyme inhibitor (Damas, J. (525) 154)

Insulin resistanceFructose; *N*-acetylcysteine; Oxidative stress; Hypertension (Song, D. (508) 205)Thiazolidinedione; PPAR γ ; MCP-1; CCR2; Macrophage (Tanaka, T. (508) 255)

Ovarian hormone; The luteinizing hormone receptor (Tamura, K. (513) 151)

Insulin secretion

Dipeptidyl peptidase-4; Glucose tolerance; Vildagliptin; (Mice) (Ahrén, B. (521) 164)

KCP256; Sulfonylurea; K_{ATP} channel; MIN6 cell; Pancreatic islet (Mori, K. (528) 176)**Insulin sensitizer**FK614; Nonthiazolidinedione; Zucker fatty rat; PPAR (peroxisome proliferator-activated receptor) γ (Minoura, H. (519) 182)**Interaction**

Cyclooxygenase; Inducible nitric oxide synthase; Pyrexia; Isobologram (Bhat, A.-S. (511) 137)

Interferon alpha

Beta; Gamma; Immune; Endocrine; Sleep; Food; Temperature; Glucose sensitive; Opiate; Naloxone (Dafny, N. (523) 1)

Interferon- γ

Pituicytes; Interleukin-1 β ; Interleukin-6; Nitric oxide; Neural lobe; Neurohypophysis (Thorn, A. (519) 168)

Interleukin-1

p38; Tumor necrosis factor- α ; Adjuvant-induced arthritis; Collagen-induced arthritis (Wada, Y. (506) 285)

Interleukin-1 β

Histamine; Gastric ulcer; Histamine receptor antagonist; Capsaicin; Gastric mucosal blood flow (Dembiński, A. (508) 211)

Pituicytes; Interferon- γ ; Interleukin-6; Nitric oxide; Neural lobe; Neurohypophysis (Thorn, A. (519) 168)

Interleukin-1beta

AMPA receptor antagonist; Newborn mouse; Stroke; Motoneuron; GYKI 52466; GYKI 53405; EGIS-8332; EGIS-10608 (Gressens, P. (519) 58)

Interleukin-6

Pituicytes; Interferon- γ ; Interleukin-1 β ; Nitric oxide; Neural lobe; Neurohypophysis (Thorn, A. (519) 168)

Internalization

CHO-K1; Angiotensin II; Angiotensin AT₁ receptor; Receptor reserve (Le, M.T. (513) 35)

Insulin; 5-HT_{2A} receptor; Ca²⁺ transient (Ohkura, M. (518) 18)

Allosteric modulation; PD 81,723; SCH-202676; Human adenosine A₁ receptor; YFP (Klaasse, E.C. (522) 1)

Interpeduncular nucleus

Morphine; Naltrexone; Medial habenula; Locus coeruleus; Physical dependence (Panchal, V. (525) 98)

Intestinal motility

Cannabidiol; Cannabinoid; Cannabinoid receptor; SR141716; SR144528 (Fride, E. (506) 179)

Intestinal mucosa

Transmural electrical stimulation; Short-circuit current; 5-hydroxytryptamine₃ receptor; Muscarinic cholinergic receptor (Townsend IV, D. (519) 285)

Intestinal Na⁺-dependent Pi transport

JTP-59557; Type IIb Na/Pi cotransporter; Pi absorption (Matsuo, A. (517) 111)

Intestinal transit

Peptide hormone; Gastric emptying; Enteric nervous system (Depoortere, I. (515) 160)

Intestine

Protein kinase C; Calcium; Phorbol ester; Cell damage (Tepperman, B.L. (518) 1)

Intimal hyperplasia

Leukocyte; Neutrophil; Selectin; Phytic acid (Shimazawa, M. (520) 156)

Intracellular Ca²⁺-activated large-conductance K⁺ channel

ATP-sensitive K⁺ channel; Channel kinetics; U-37883A (Teramoto, N. (506) 1)

Intracerebroventricular

Osmotic minipump; Morphine pellet; Chronic; Naloxone; Withdrawal; Tolerance; (Mice) (Lenard, N.R. (527) 71)

Intraocular pressure

2-Alkynyladenosine derivative; Outflow facility; Adenosine A_{2A} receptor; K⁺ channel (Konno, T. (518) 203)

Chymase; Endothelin-1 (1–31); Endothelin ET_A receptor (Konno, T. (524) 132)

Intra-operative pain

Serotonin; 5-HT_{1A} receptor; Orthopedic surgery; Postoperative pain; Opioid hyperalgesia (Kiss, I. (523) 29)

Inverse agonism

Adenosine A₁ receptor; Constitutive activity; G14T mutant; “Locked-on” phenotype (de Ligt, R.A.F. (510) 1)

Inverse agonist

JTE-907; Cannabinoid CB₂ receptor; Agonist; Ear swelling (Ueda, Y. (520) 164)

Ethanol abuse; Reward; Knockout (Stephens, D.N. (526) 240)

Ion transport development

Colonic secretion; Ontogeny; Bethanechol; Histamine; 5-Hydroxytryptamine (Mrnka, L. (516) 268)

Ionotropic glutamate receptor

Gene expression; GABA release; Nucleus accumbens core (Jacobs, E.H. (511) 27)

Ionotropic purinergic receptor

Cough reflex; C-fiber; Rapidly adapting receptor; ATP (Kamei, J. (528) 158)

Iptakalim

Proliferation; ATP-sensitive potassium channel; Fluo-3; Pulmonary arterial smooth muscle cell (Xie, W. (511) 81)

Irbesartan

Angiotensinogen mRNA; Brain renin–angiotensin system; Angiotensin AT₁ receptor antagonist; Losartan (Pediconi, D. (528) 79)

Iron chelator

Mangiferin; Lipid peroxidation; Mitochondria (Andreu, G.P. (513) 47)

Iron overload

Baicalin; Oxidative injury; Liver (Zhao, Y. (509) 195)

Ischaemia

Neurodegeneration; Free radical scavenger; Kainic acid; S34176; Nitron (Lockhart, B. (511) 127)

Ischemia

Reperfusion; Endothelin; U46619; Vasoconstriction; NO (nitric oxide) (García-Villalón, A.L. (509) 165)

Valsartan; Mitochondria; Heart; Cell biology; Cardioprotection (Monteiro, P. (518) 158)

Ischemia and reperfusion

Cardiovascular; Heart; Myocardial infarction; Cysteine protease; Calpain inhibitor (Khalil, P.N. (528) 124)

Ischemia/reperfusion

Arrhythmia; $\text{Na}^+/\text{Ca}^{2+}$ exchange; Digitalis (Nagasawa, Y. (506) 249)

Nitric oxide; Acute renal failure; Endothelin-1 (Kurata, H. (517) 232)

Ischemia/Reperfusion

PARP-1; GPI 15427; GPI 16539; Myeloperoxidase; Colitis (Di Paola, R. (527) 163)

Ischemia–reperfusion

Neonatal rat cardiomyocyte; Cyclosporin A; Electrophysiology; Cell contraction; Protein release; Heat shock protein; Mitochondria (Bès, S. (511) 109)

Azimilide; Dofetilide; HMR 1556; Delayed outward rectifier; (Guinea-pig) (Ducroq, J. (518) 165)

Resveratrol; Rat liver; Mitochondria; Antioxidant; Permeability transition pore; Reactive oxygen species (Plin, C. (528) 162)

Ischemic preconditioning

Na^+/H^+ exchange; Myocardial ischemia and reperfusion injury (Yamada, K. (521) 115)

Islets of Langerhans

Peptide hormone-release; Cholinergic; Gene inactivation; Toxin-resistant current; R-type Ca^{2+} channel (Pereverzev, A. (511) 65)

Isallopregnanolone (3 β -hydroxy-5 α -pregnan-20-one)

Allopregnanolone (3 α -hydroxy-5 α -pregnan-20-one); Neurosteroid antagonism; Anaesthesia threshold; Male; (Rat) (Bäckström, T. (512) 15)

Isobologram

Cyclooxygenase; Inducible nitric oxide synthase; Pyrexia; Interaction (Bhat, A.-S. (511) 137)

Isobolographic analysis

Oxcarbazepine; Gabapentin; Electroshock maximal; Pharmacodynamic interaction; Seizure (Luszczki, J.J. (515) 54)

Isocorynoxine

Isorhynchophylline; *Uncaria* alkaloid; 5-HT_{2A} receptor-mediated head twitch response; 5-HT_{2A} receptor-mediated current response; *Xenopus* oocyte (Matsumoto, K. (517) 191)

Isoguvacine

Allodynia; Gaboxadol; GABA_A receptor; Hyperalgesia; Zolpidem (Rode, F. (516) 131)

Isolated perfused kidney and mesentery

Tacrolimus (FK506); Vascular reactivity; Endothelin; Bosentan (Tekes, E. (517) 92)

Isoprenaline

β -adrenoceptor; Contractility; Cardiac myocyte (Stones, R. (512) 117)

8-Isoprostaglandin F_{2 α}

Prostaglandin E₂; Carrageenan-induced air pouch model; Cyclooxygenase inhibitor; Vitamin E (Çiçek Özdöl, N. (506) 189)

Isoprostane

Inducible nitric oxide synthase; Nitrotyrosine; Cardiac contractility; Antioxidant (Cheng, X. (519) 118)

K⁺ channel; Cyclic AMP; Protein kinase A; Rho/Rho-kinase (Zhang, Y. (520) 22)

Isoproterenol

Angiotensin-converting enzyme; Myocardial hypertrophy; Renin-angiotensin system; β -adrenoceptor (Oliveira, E.M. (520) 135)

Isoquercitrin

Rutin; Asthma; Carbachol; *Argemone platyceras*; Antigen challenge; Anti-asthmatic properties; Anti-leukotriene action (Fernandez, J. (522) 108)

Isorhynchophylline

Isocorynoxine; *Uncaria* alkaloid; 5-HT_{2A} receptor-mediated head twitch response; 5-HT_{2A} receptor-mediated current response; *Xenopus* oocyte (Matsumoto, K. (517) 191)

Jaw movement

Nucleus accumbens shell; Retrorubral field; Ventral pallidum; GABA_A receptor; Dopamine D1/D2 receptor stimulation; (Rat) (Uchida, T. (510) 39)

JDTic

κ -Opioid receptor; Morphine physical dependence; (Rat) (Carroll, F.I. (524) 89)

JL-18

Dopamine D4 receptor; NPA ((–)-Propylnorapomorphine); Guinea pig vas deferens (Morishita, H. (516) 145)

JNJ 10191584

Histamine H₄ receptor antagonist; JNJ 7777120; Colitis; Inflammatory bowel disease; Neutrophil; Tumour necrosis factor- α (Varga, C. (522) 130)

JNJ 7777120

Histamine H₄ receptor antagonist; JNJ 10191584; Colitis; Inflammatory bowel disease; Neutrophil; Tumour necrosis factor- α (Varga, C. (522) 130)

JNK

Ethanol; Acetaldehyde; Hepatocyte; p42/44 MAPK; Apoptosis (Lee, Y.J. (508) 31)

JNK (Jun N-terminal kinase)

Manganese(II); Apoptosis; p38 MAPK (mitogen-activated protein kinase); c-Jun; p53; p21^{WAF1/CIP1} (Suzuki, T. (525) 48)

JTC-801

N/OFQ (nociceptin/orphanin FQ); NOP receptor antagonist; Allodynia; Hyperalgesia (Tamai, H. (510) 223)

JTE-907

Cannabinoid CB₂ receptor; Inverse agonist; Agonist; Ear swelling (Ueda, Y. (520) 164)

JTP-59557

Type IIb Na/Pi cotransporter; Intestinal Na⁺-dependent Pi transport; Pi absorption (Matsuo, A. (517) 111)

Jurkat

Olomoucine; Roscovitine; Caspase; SH-SY5Y (Ribas, J. (524) 49)

Juvenile pig

Detrusor contraction; Propiverine and metabolites (Wuest, M. (524) 145)

JYL1421 (SC0030)

TRPV1 receptor antagonist; Sensory neuropeptide release; Ca²⁺ accumulation; Wiping test; Hypothermia; Pulmonary chemoreflex (Jakab, B. (517) 35)

K⁺

Renal vasodilation; Endothelium-dependent; K⁺ channel (Quilley, J. (508) 193)

K⁺ channel

Alzheimer's disease; Cholinesterase inhibitor; Donepezil (E2020); Na⁺ channel (Yu, B. (508) 15)

K⁺; Renal vasodilation; Endothelium-dependent (Quilley, J. (508) 193)

Tetramethylpyrazine; Cystic fibrosis transmembrane conductance regulator; cAMP; Membrane permeabilization; Caco-2 cell line (Zhu, J.X. (510) 187)

SNC80; δ -Opioid receptor agonist; Peripheral antinociception; PGE₂ (Pacheco, D.F. (512) 23)

Sildenafil; Cyclic GMP; Protein kinase G; Peripheral processing (Ambriz-Tututi, M. (512) 121)

Lumiracoxib; NO-cyclic GMP pathway; Charybdotoxin; Apamin; Margatoxin; Serotonergic system; Opioid receptor (Lozano-Cuenca, J. (513) 81)

2-Alkynyladenosine derivative; Intraocular pressure; Outflow facility; Adenosine A_{2A} receptor (Konno, T. (518) 203)

Isoprostane; Cyclic AMP; Protein kinase A; Rho/Rho-kinase (Zhang, Y. (520) 22)

Sildenafil; Cyclic GMP; Protein kinase G; Spinal processing (Araiza-Saldaña, C.I. (527) 60)

K⁺ current density

Hypertension; Sarcoplasmic reticulum; Ryanodine receptor (Zhang, Y. (514) 111)

Kainate

5-HT_{2A}; Endocannabinoid; Alpha-amino-3-hydroxy-5-methyl-4-isoxazole-propionic acid (AMPA); Wet dog shake; (Rat) (Gorzalka, B.B. (516) 28)

Kainic acid

Neurodegeneration; Free radical scavenger; Ischaemia; S34176; Nitron (Lockhart, B. (511) 127)

Kappa agonist

8-Carboxamidocyclazocine; Cocaine; Drug self-administration; Monkey; rhesus (Stevenson, G.W. (506) 133)

Kappa-opioid

Efficacy; Antinociception; Delayed antagonism (Husbands, S.M. (509) 117)

K_{ATP} channel

Protopine; Sulphonylurea receptor; Heterologous expression; BK_{Ca} channel (Jiang, B. (506) 93)

Acetylcholine; Neurotransmitter; Patch clamp; Smooth muscle cell; Stable transfection (Hanna, S.T. (515) 34)

KCP256; Sulfonylurea; Insulin secretion; MIN6 cell; Pancreatic islet (Mori, K. (528) 176)

K_{ATP} channel opener

Bladder overactivity; (Rat) (Pinna, C. (516) 71)

Kawasaki disease

Neutrophils; Apoptosis; Necrotic morphological change; IgG (Sugita, K. (513) 141)

KCNN4, Intermediate conductance calcium-sensitive potassium channel

CFTR (Cystic fibrosis transmembrane conductance regulator); Chloride channel; Chloride secretion; Cystic fibrosis (Murthy, M. (516) 118)

KCP256

Sulfonylurea; K_{ATP} channel; Insulin secretion; MIN6 cell; Pancreatic islet (Mori, K. (528) 176)

K⁺-efflux

SCH 51866; Sildenafil citrate; Cyclic-nucleotide-gated-channel; cGMP-dependent protein kinase I α (Lusche, D.F. (513) 9)

Ketanserin

Swim stress; Convulsions; ($\pm$)-8-hydroxy-2-(di-*n*-propylamino) tetralin hydrobromide (8-OH-DPAT); WAY-100635; 1-(2,5-dimethoxy-4-iodophenyl)-2-aminopropane (DOI) (Peričić, D. (527) 105)

Kidney

GABA (γ -aminobutyric acid); Antihypertensive; Spontaneously hypertensive rat; Renal denervation; Renin (Hayakawa, K. (524) 120)

α_{1B} -adrenoceptor; Nandrolone; MDCK-D1 (Lindblom, J. (527) 157)

Kinetics

P2X receptor; Voltage dependence; Gate; Ligand affinity (Nakazawa, K. (508) 23)

Alvimopan; *N*-methylnaltrexone; Opioid receptor; Opioid antagonist (Cassel, J.A. (520) 29)

Kinin

Type 1 diabetes; Non-obese diabetic mice; Hyperalgesia; Bradykinin B₁ receptor; desArg⁹bradykinin; R-715; R-954 (Gabra, B.H. (514) 61)

Bradykinin; Insulin; Glucose; Rat uterus; Angiotensin-converting enzyme inhibitor (Damas, J. (525) 154)

Knock-in mice

GABA_A receptor; General anaesthetic; Unconsciousness; Immobility (Lambert, S. (516) 23)

Knock-out

CB₁; Endocannabinoid; Conditioning; Motivation; Food consumption (Hölter, S.M. (510) 69)

Knockout

Nicotine; Withdrawal; Hyperalgesia (Grabus, S.D. (515) 90)

Ethanol abuse; Reward; Inverse agonist (Stephens, D.N. (526) 240)

Cannabinoid CB₂ receptor; GW405833; Inflammatory pain; Neuropathic pain; Opioid (Whiteside, G.T. (528) 65)

Knock-out (mouse)

α_{2A} -adrenoceptor; D-amphetamine; Atipamezole; Locomotor activity; Behavioural sensitization (Juhila, J. (517) 74)

KR-31378

Potassium channel; Protein kinase C- ϵ ; Cardiac cell; Hypoxia (Moon, C.-H. (506) 27)

KR-32570

Cardioprotective effect; Na⁺/H⁺ exchanger; Lipid peroxidation (Lee, B.H. (511) 175)

Cardioprotection; Antiarrhythmia; Na⁺/H⁺ exchanger (Lee, B.H. (523) 101)

Na⁺/H⁺ exchanger; H9c2 cardiomyocyte; Hypoxia1 (Kim, M.J. (525) 1)

Kynurenic acid

Probenecid; Glucosamine-kynurenic acid; Neuroprotection; Hippocampus; (Rat) (Robotka, H. (513) 75)

Endothelium; Homocysteine; S-adenosylhomocysteine (Stazka, J. (517) 217)

L-838,417

ACTH (adrenocorticotrophic hormone); Corticosterone; GABA; Paraventricular nucleus; Stress; Diazepam; Zolpidem; Zopiclone; (Mouse) (Mikkelsen, J.D. (519) 223)

Lamotrigine

Bipolar; Monoamine oxidase inhibition; Moclobemide; 5-hydroxytryptophan; Tyramine (Southam, E. (519) 237)

Lansoprazole

Asthma; Common cold; ICAM-1 (intercellular adhesion molecule-1); Proton pump (Sasaki, T. (509) 201)

H⁺/K⁺-ATPase; Rat atrium; Inotropy; Omeprazole; SCH 28080 (Yenisehirli, A. (519) 259)

Large-conductance calcium-activated potassium channel

Human pulmonary artery; Human bronchiole; Nitric oxide donor; Soluble guanylyl cyclase (Elmedal, B. (516) 78)

LASSBio 552

Tetrazolephthalimide derivative; Leukotriene; Eosinophil; Allergy (Neves, J.S. (511) 219)

Late phase response

Asthma; Mast cell; Inflammation; Corticosteroid; Cytokine (Nabe, T. (521) 144)

Lateral hypothalamus

Addiction; Dependence; Behavioral economics; Choice; Dopamine; Cocaine; Heroin; Prefrontal cortex (Ahmed, S.H. (526) 9)

LDL oxidation

Gentisic acid; Aspirin; Antioxidant (Ashidate, K. (513) 173)

Learning

Thinner; Memory; NCAM; (Rat) (Baydas, G. (512) 181)

Learning and memory

Cognition; Depression; Mood; Open space swim test; Protein kinase C (Sun, M.-K. (512) 43)

Left ventricular hypertrophy

Oxidative stress; Hypertension; Gene expression; Energy metabolism (Chon, H. (513) 21)

Leptin

Blood flow; Endothelium; Nitric oxide; Blood pressure (Rahmouni, K. (518) 175)

Leucine

DNA synthesis; Proliferation; Hepatocyte (Kimura, M. (510) 167)

Leukocyte

T cell; cGMP-dependent protein kinase; Adhesion molecule; Tumor necrosis factor- α ; E-selectin; ICAM-1 (intercellular adhesion molecule 1) (Wong, D. (514) 91)

L-selectin; Platelet; P-selectin; Restenosis; Sulfatide; Thrombosis (Shimazawa, M. (520) 118)

Neutrophil; Intimal hyperplasia; Selectin; Phytic acid (Shimazawa, M. (520) 156)

Leukotriene

LASSBio 552; Tetrazolephthalimide derivative; Eosinophil; Allergy (Neves, J.S. (511) 219)

Leukotriene receptor antagonist

Airway mucus; Secretion; Asthma; COPD (chronic obstructive pulmonary disease) (Schmidt, R. (527) 150)

Levetiracetam

SV2A; Rat spinal cord; Binding (Lambeng, N. (520) 70)

Levobupivacaine

Bupivacaine; Neurotoxicity; NMDA; Mice mixed cultures of cortical neurons (Marganella, C. (518) 111)

Levosimendan

Acidosis; Epinephrine; Guinea pig; Contractility; cAMP (Toller, W. (507) 199)

Ligand affinity

P2X receptor; Voltage dependence; Gate; Kinetics (Nakazawa, K. (508) 23)

Ligand attachment

Receptor signaling; Adenylyl cyclase; G-protein; Pertussis toxin; Ligand dissociation (Sah, R. (525) 60)

Ligand dissociation

Receptor signaling; Adenylyl cyclase; G-protein; Pertussis toxin; Ligand attachment (Sah, R. (525) 60)

Light-dark box

Anxiety; Nicotine; Startle; Withdrawal; Prepulse inhibition; (Mouse) (Jonkman, S. (516) 40)

Light-enhanced startle

Fear conditioning; Fear-potentiated startle; Foot shock; Sensitization; Noradrenaline (Schweimer, J. (507) 117)

Linopirdine

Cytochrome; M-channel; Liver; Brain (Wolff, C. (518) 10)

Lipid peroxidation

KR-32570; Cardioprotective effect; Na⁺/H⁺ exchanger (Lee, B.H. (511) 175)

Mangiferin; Mitochondria; Iron chelator (Andreu, G.P. (513) 47)

Lipid peroxide

Diabetes; Cataract; Hyperglycemia; Hyperlipidemia (Yoshida, M. (513) 159)

Lipopolysaccharide

Nitric oxide; Halogenated volatile anaesthetic; EPR spectroscopy; Inducible and neuronal nitric oxide synthase; NOS inhibitor (Sjakste, N. (513) 193)

Bradykinin B₁ receptor; (Rat) aorta; Calcium-dependent K⁺ channel (Farias, N.C. (525) 123)

Lipoxygenase

Monogalactosyldiglyceride; Inflammation; Croton oil; Carrageenan; Cyclooxygenase (Bruno, A. (524) 159)

5-Lipoxygenase

Histamine; Phorbol ester; Inflammation; Extravasation (Giannaras, A. (506) 265)

Liquiritigenin

Glycyrrhizae radix; Bakumondo-to (Mai-men-dong-tang); Antitussive effect; Liquiritin apioside; Liquiritin (Kamei, J. (507) 163)

Liquiritin

Glycyrrhizae radix; Bakumondo-to (Mai-men-dong-tang); Antitussive effect; Liquiritin apioside; Liquiritigenin (Kamei, J. (507) 163)

Liquiritin apioside

Glycyrrhizae radix; Bakumondo-to (Mai-men-dong-tang); Antitussive effect; Liquiritin; Liquiritigenin (Kamei, J. (507) 163)

Lisuride

Pergolide; Cabergoline; Bromocriptine; Terguride; Valvular heart disease; 5-HT_{2B} receptor agonism (Jähnichen, S. (513) 225)

Lithium carbonate

Milnacipran; In vivo microdialysis; Noradrenaline; Dopamine; Serotonin (Kitaichi, Y. (516) 219)

Lithium chloride

Place conditioning; Biased conditioning apparatus; Nausea; Toxin; Long-Evans rat; Open-field (Tenk, C.M. (515) 117)

Liver

Baicalin; Iron overload; Oxidative injury (Zhao, Y. (509) 195)

Linopirdine; Cytochrome; M-channel; Brain (Wolff, C. (518) 10)

Diabetes; NF- κ B; Thioacetamide; Tissue repair (Devi, S.S. (523) 127)

Liver cirrhosis

Nitric oxide; Vascular reactivity; Methoxamine; Bile duct ligation; Calcium; Thapsigargin (Atucha, N.M. (525) 117)

Local anaesthetic

Toluene; Sodium channel; *Xenopus* oocyte; β_1 subunit (Gauthereau, M.Y. (528) 17)

“Locked-on” phenotype

Adenosine A₁ receptor; Inverse agonism; Constitutive activity; G14T mutant (de Ligt, R.A.F. (510) 1)

Locomotion

Cannabidiol; Cannabinoid; Antipsychotic; Psychotomimetic; Catalepsy (Moreira, F.A. (512) 199)

Locomotor activity

Diphenylpyraline; Dopamine release and uptake; Voltammetry; Microdialysis (Lapa, G.B. (506) 237)

Adenosine; Caffeine; Neurodevelopment; Maternal intake; Glutamate (da Silva, R.S. (509) 155)

5-HT_{2C} receptor; Place conditioning; (Rat) (Mosher, T. (515) 107)

5-HT₃ receptor; Cannabinoid receptor ligand; Cocaine (Przegaliński, E. (517) 68)

α_2 -adrenoceptor; D-amphetamine; Atipamezole; Behavioural sensitization; Knock-out (mouse) (Juhila, J. (517) 74)

Curcumin; Forced swimming; Tail suspension; Antidepressant-like effect; Monoamine; Monoamine oxidase; Mice (Xu, Y. (518) 40)

Locus coeruleus

Microdialysis; Pain; Formalin test; Noradrenaline (Sajedianfard, J. (512) 153)

Morphine; Naltrexone; Medial habenula; Interpeduncular nucleus; Physical dependence (Panchal, V. (525) 98)

Morphine; Synchronous activity; Single unit recording; Excitatory amino acid (Zhu, H. (528) 73)

Long-chain fatty alcohol

Calcium; Fura-2; Pituitary neural lobe; Primary sensory neuron; Trimethylcyclohexenonic alcohol (Jover, E. (516) 197)

Long-Evans rat

Lithium chloride; Place conditioning; Biased conditioning apparatus; Nausea; Toxin; Open-field (Tenk, C.M. (515) 117)

Long-term potentiation

Free radical scavenger; Transient cerebral ischemia; $\cdot$ OH (hydroxyl radical); NOS (NO synthase); Hippocampus (Otani, H. (512) 129)

Losartan

Angiotensinogen mRNA; Brain renin–angiotensin system; Angiotensin AT₁ receptor antagonist; Irbesartan (Pediconi, D. (528) 79)

Lower esophageal sphincter

Glutamate; 2-methyl-6-(phenylethynyl)-pyridine; MPEP; Gastroesophageal reflux (Jensen, J. (519) 154)

5-LOX

Colon cancer; Cigarette smoke; Angiogenesis; MMP; VEGF1 (Ye, Y.N. (519) 52)

L-selectin

Leukocyte; Platelet; P-selectin; Restenosis; Sulfatide; Thrombosis (Shimazawa, M. (520) 118)

LTD₄

ASK1; AP-1; Airway smooth muscle cells; Remodeling (Kumasawa, F. (517) 11)

L-type Ca²⁺ current

Paeoniflorin; NG108-15 cells (Tsai, T.-Y. (523) 16)

Lumiracoxib

K⁺ channel; NO-cyclic GMP pathway; Charybdotoxin; Apamin; Margatoxin; Serotonergic system; Opioid receptor (Lozano-Cuenca, J. (513) 81)

Lung fibrosis

Bleomycin; Mesna (El-Medany, A. (509) 61)

Lung injury

Nitric oxide; Oleic acid; Rho-kinase; Y-27632 (Köksel, O. (510) 135)

Lusitropic

Carvedilol; Congestive heart failure; α_1 -Adrenoceptor; β -Adrenoceptor; Inotropic (Qvigstad, E. (516) 51)

Luteolin

Human lung squamous carcinoma cell line CH27; Apoptosis; Cell cycle; Comet assay; DNA repair enzyme (Leung, H.W.-C. (508) 77)

Apoptosis; Caspase; Mitochondria; Bcl-2; Bcl-X_L; Bad; Bax; Cleavage (Cheng, A.-C. (509) 1)

Lymphocyte

Nicotinic receptor; Immune response (Skok, M. (517) 246)

Lysophosphatidylcholine

Airway edema; Bronchial asthma; Bronchoconstriction; (Guinea pig) (Nobata, K. (520) 150)

Lysozyme release

N-formylmethionyl peptide; Neutrophil; human; Chemotaxis; Superoxide anion generation; Receptor binding (Cavicchioni, G. (512) 1)

M toxin

Botulinum toxin type-A; Muscle weakening; Grip strength (Yoneda, S. (508) 223)

Macrophage

Thiazolidinedione; PPAR γ ; MCP-1; CCR2; Insulin resistance (Tanaka, T. (508) 255)

Macrophages

Aromatic diamine compound; Inducible nitric oxide synthase; Nuclear factor- κ B; Anti-inflammation (Shin, H.-M. (521) 1)

Magnesium

Diabetes; Mesenteric vascular bed; Nitric oxide; Endothelium dysfunction; (Rat) (Soltani, N. (508) 177)

Male

Allopregnanolone (3 α -hydroxy-5 α -pregnan-20-one); Isoallopregnanolone (3 β -hydroxy-5 α -pregnan-20-one); Neurosteroid antagonism; Anaesthesia threshold; (Rat) (Bäckström, T. (512) 15)

Male (Rat)

Aggression; Sexual behaviour; Neural mechanism; c-Fos; Serotonin; Pharmacology (Veening, J.G. (526) 226)

Manganese(II)

Apoptosis; JNK (Jun N-terminal kinase); p38 MAPK (mitogen-activated protein kinase); c-Jun; p53; p21^{WAF1/CIP1} (Suzuki, T. (525) 48)

Mangiferin

Lipid peroxidation; Mitochondria; Iron chelator (Andreu, G.P. (513) 47)

MAO-A inhibitor

CHF3381; NMDA receptor antagonist; Antinociceptive effect; Capsaicin (Bassani, F. (519) 231)

MAO-B

Imidazoline I₂ binding site; [³H]2-BFI; Autoradiography; Brain; (Mouse) (MacInnes, N. (516) 139)

MAP kinase

Immunophilin; Nerve growth factor; Neurite outgrowth (Price, R.D. (509) 11)

Angiogenesis; Endothelial cell; Growth; Migration; Tube formation (Tsuneki, H. (512) 105)

MAP kinase inhibition

Mixed lineage kinase; Tumor necrosis factor- α (Ciallella, J.R. (515) 179)

MAP (mitogen-activated protein) kinase

Huperzine A; Oxidative stress; Nerve growth factor; TrkA (tyrosine kinase A) receptor (Tang, L.-L. (519) 9)

MAPK

Hippocampus; Excitotoxicity; FAK; Survival signaling (Karanian, D.A. (508) 47)

Margatoxin

Lumiracoxib; K⁺ channel; NO-cyclic GMP pathway; Charybdotoxin; Apamin; Serotonergic system; Opioid receptor (Lozano-Cuenca, J. (513) 81)

Marmoset

Diethylpropion; WAY 100635; Figure-eight maze; Sensitivity (Mello Jr., E.L. (511) 43)

Mast cell

Ciglitazone; Peroxisome proliferator-activated receptor γ ; Cyteinyl-leukotrienes; Independence (Okuyama, K. (521) 21)

Asthma; Late phase response; Inflammation; Corticosteroid; Cytokine (Nabe, T. (521) 144)

Sepsis; Neutrophil migration; Compound 48/80 (Carvalho, M. (525) 161)

Maternal intake

Adenosine; Caffeine; Neurodevelopment; Glutamate; Locomotor activity (da Silva, R.S. (509) 155)

Mathematical modeling

Na⁺/K⁺-ATPase; Endotoxin; Sepsis; Cardiac glycoside (Baek, M. (514) 43)

Matrix metalloproteinase

Arthritis, adjuvant induced; Bone destruction; Osteoclast (Ishikawa, T. (508) 239)

Benz[*f*]indole-4,9-dione; 2-Amino-3-ethoxycarbonyl-*N*-methylbenz[*indole*-4,9-dione; Extracellular matrix; Tissue inhibitor of metalloproteinase; Membrane type 1-matrix metalloproteinase (Park, H.J. (527) 31)

MCF-7

Cdc25B; HTS (high throughput screening); Selectivity; Antiproliferation; Cdk1 (cell-cycle-dependent kinase 1) (Kim, K.-R. (528) 37)

M-channel

Linopirdine; Cytochrome; Liver; Brain (Wolff, C. (518) 10)

MCP-1

Thiazolidinedione; PPAR γ ; CCR2; Macrophage; Insulin resistance (Tanaka, T. (508) 255)

MCP-1 (Monocyte chemoattractant protein-1)

Neutrophil; Dexamethasone; Acute lung injury; Cyclosporin A; Tacrolimus (Koshika, T. (515) 169)

MD-354 (*m*-chlorophenylguanidine)

α_2 -Adrenoceptor; 5-HT₃ receptor; Antinociception; In vivo model (Dukat, M. (528) 59)

MDA-MB-231 cell

Goniiothalamine; Redox status; cdc25C; Apoptosis (Chen, W.-Y. (522) 20)

MDCK-D1

Kidney; α_{1B} -adrenoceptor; Nandrolone (Lindblom, J. (527) 157)

MDL72222

5-HT₃ receptor antagonist; Y25130; 5-HT₃ receptor; β -Amyloid protein; Neurotoxicity; Cortical neuron; Neuroprotection (Ju Yeon Ban (520) 12)

MDMA (3,4-Methylenedioxymethamphetamine)

6-OHDA (6-hydroxydopamine); Serotonin; Dopamine; Endogenous opioid; Parkinson's disease (Lebsanft, H.B. (516) 34)

Mean arterial pressure

1,4-Butanediol; Schedule-controlled behavior; Heart rate; Radio telemetry; (Rat) (Gerak, L.R. (506) 75)

Urocortin; Corticotropin releasing factor; Mean circulatory filling pressure; Venous; Capacitance vessel (Abdelrahman, A.M. (510) 107)

Mean circulatory filling pressure

Urocortin; Corticotropin releasing factor; Mean arterial pressure; Venous; Capacitance vessel (Abdelrahman, A.M. (510) 107)

Mecamylamine

Morphine; Naltrexone; Dextromethorphan; Bupropion; Opioid withdrawal (Taraschenko, O.D. (513) 207)

Mechanical hypersensitivity

α_2 -adrenoceptor; ω -conotoxin CVID; Dexmedetomidine; N-type Ca²⁺ channel (Blake, D.W. (506) 221)

Mechanical paw pressure threshold

Chronic constriction injury model; 2'-deoxyribose-*N*⁶-cyclopentyl-adenosine; 8-methylamino-*N*⁶-cyclopentyl-adenosine; Pharmacokinetics; Population pharmacokinetic/pharmacodynamic analysis (Schaddelee, M.P. (514) 131)

Mechanical scratching

Cutaneous barrier disruption; Prostaglandin; Transepidermal water loss (Honma, Y. (518) 56)

Medial habenula

Morphine; Naltrexone; Interpeduncular nucleus; Locus coeruleus; Physical dependence (Panchal, V. (525) 98)

Medial prefrontal cortex

Fluoxetine; Olanzapine; Microdialysis; Osmotic minipump (Amargós-Bosch, M. (516) 235)

Melanocortin

Antisense oligonucleotide; Food intake; Small interfering RNA; (Rat) (Senn, C. (522) 30)

Melanocortin receptor

Radioligand binding; Cooperativity; Melanocyte stimulating hormone; Sf9 cells; Calcium (Kopanchuk, S. (512) 85)

Melanocyte stimulating hormone

Melanocortin receptor; Radioligand binding; Cooperativity; Sf9 cells; Calcium (Kopanchuk, S. (512) 85)

Melatonin

Baicalein; Anti-amnesic effect; β -Amyloid peptide-(25–35); Passive avoidance test (Wang, S.-Y. (506) 55)

Alzheimer disease; Calyculin A; Tau; Phosphorylation (Li, X.-C. (510) 25)

Nicotinic acetylcholine receptor; α -Bungarotoxin; Myotube culture; Cyclic AMP; Calmodulin (de Almeida-Paula, L.D. (525) 24)

Memantine

NMDA receptor antagonist; Neramexane; Morphine analgesia; Clonidine; Rat sciatic nerve; Allodynia; Experimental nerve injury (Malyshkin, A.A. (519) 80)

Membrane depolarization

Renal hypertension; Ouabain; Contractile response; Endothelium (Molin, J.C. (522) 94)

Membrane permeabilization

Tetramethylpyrazine; Cystic fibrosis transmembrane conductance regulator; cAMP; K⁺ channel; Caco-2 cell line (Zhu, J.X. (510) 187)

Membrane potential

Endothelium; Smooth muscle; Endothelium-derived hyperpolarizing factor; Hydrogen peroxide (Gluais, P. (513) 219)

Membrane translocation

Ethanol withdrawal; 17 β -estradiol; Protein kinase C ϵ (Jung, M.E. (515) 62)

Membrane type 1-matrix metalloproteinase

Benz[*g*]indole-4,9-dione; 2-Amino-3-ethoxycarbonyl-*N*-methylbenz[*indole*-4,9-dione; Extracellular matrix; Matrix metalloproteinase; Tissue inhibitor of metalloproteinase (Park, H.J. (527) 31)

Memory

Thinner; Learning; NCAM; (Rat) (Baydas, G. (512) 181)

Selegiline; Donepezil; Water maze; Acetylcholine (Takahata, K. (518) 140)

FK962; Passive avoidance; Somatostatin; Water maze; Whole-cell patch-clamp (Tokita, K. (527) 111)

Memory evocation

Cortistatin; Circadian rhythm; Sleep-waking cycle; cAMP (Méndez-Díaz, M. (507) 21)

Memory improvement

Brain energy metabolism; Habituation; Recognition memory; Mitochondrial respiration; (Rat) (Riha, P.D. (511) 151)

Menthol

GABA_A receptor; Glycine receptor; Monoterpenoid (Hall, A.C. (506) 9)

Mesangial cells

YC-1; Cyclin D1; Proliferation; p38 mitogen-activated protein kinase (Chiang, W.-C. (517) 1)

Mesenteric artery

Prostacyclin; Nitrogenic innervation (Ferrer, M. (506) 151)

EDHF (Endothelial derived hyperpolarising factor); 14,15 EEZE; Hyperpolarisation; U46619; mouse (Harrington, L.S. (506) 165)

Endothelium-dependent relaxation; Acetylcholine; RHC-80267; Cholinesterase; Diacylglycerol lipase (Ghisal, P. (517) 97)

Mesenteric vascular bed

Diabetes; Nitric oxide; Magnesium; Endothelium dysfunction; (Rat) (Soltani, N. (508) 177)

Cholestasis; α_2 -Adrenoceptor; Clonidine; Nitric oxide; Opioid (Borhani, A.A. (514) 183)

Mesna

Bleomycin; Lung fibrosis (El-Medany, A. (509) 61)

Metabolism

Muscimol; Pyruvate; Glucose; Spontaneous alternation; Shock avoidance; Hippocampus (Krebs, D.L. (520) 91)

Metabotropic glutamate receptor

Glutamate; Reinstatement; Self-administration; Conditioning; Alcohol (Bäckström, P. (528) 110)

Metformin

Adiponectin; AMP activated protein kinase; Glucose; Adipocyte; Diabetes (Huypens, P. (518) 90)

(+)-methamphetamine

Sheep Purkinje fibre; Phencyclidine; 'Ecstasy'; Cocaine; Cocaethylene; Δ^9 -tetrahydrocannabinol; Morphine (Sheridan, R.D. (511) 99)

(+)-Methamphetamine

(+)-Amphetamine; Monoclonal antibody; (Rat) (Byrnes-Blake, K.A. (521) 86)

Methanandamide

Anandamide; Cannabinoid; Cross-tolerance; Tetrahydrocannabinol; Tolerance (Wiley, J.L. (510) 59)

L-Methionine

Dimer of platelet-derived growth factor-B; Collagen; Smooth muscle α -actin; Endothelin-1; L-Cysteine (Matsui, H. (509) 31)

Methotrexate

Multidrug resistance; Polymorphism; Dexamethasone (Pawlik, A. (528) 27)

Methoxamine

Nitric oxide; Vascular reactivity; Liver cirrhosis; Bile duct ligation; Calcium; Thapsigargin (Atucha, N.M. (525) 117)

8-methylamino-*N*⁶-cyclopentyl-adenosine

Chronic constriction injury model; 2'-deoxyribose-*N*⁶-cyclopentyl-adenosine; Mechanical paw pressure threshold; Pharmacokinetics; Population pharmacokinetic/pharmacodynamic analysis (Schaddelee, M.P. (514) 131)

6-methylflavone

GABA (γ -aminobutyric acid); 6-methylflavanone; Benzodiazepine; Flavonoid; GABA_A receptor (Hall, B.J. (512) 97)

Methyllycaconitine

$\alpha 7$ nicotinic receptor; Neuronal nicotinic receptor; Nicotine; Receptor binding; Epibatidine (Nuutinen, S. (515) 83)

 α -Methylnorepinephrine

Rilmidenine; Clonidine; Rostral ventrolateral medulla; Nucleus tractus solitarius; SHRs (spontaneously hypertensive rats); c-Jun (Wang, X. (514) 191)

1-Methyl-4-phenylpyridinium

Glibenclamide; PC12 cell; Mitochondrial membrane permeability; Cell injury (Lee, C.S. (527) 23)

2-methyl-6-(phenylethynyl)-pyridine

Glutamate; Lower esophageal sphincter; MPEP; Gastroesophageal reflux (Jensen, J. (519) 154)

Metoclopramide

Gastrointestinal motility; Ghrelin; Motilin; Prokineticin (Bassil, A.K. (524) 138)

Mianserin

5-hydroxytryptamine; Deoxycorticosterone acetate; Experimental hypertension; 5-HT₂ receptor (Silva, A.L.S. (518) 152)

(Mice)

Tramadol; Serotonin; Selective 5-HT_{1A}/5-HT_{1B} receptor antagonist; Antinociception; Hot plate (Rojas-Corralles, M.O. (511) 21)

GABA_B receptor; GTP γ S binding; SCH 50,911; Chronic treatment (Pibiri, F. (515) 94)

Dipeptidyl peptidase-4; Insulin secretion; Glucose tolerance; Vildagliptin (Åhrén, B. (521) 164)

Aggression; Genetics; Serotonin transporter; Monoamine oxidase A; 5-hydroxyindoleacetic acid; Microdialysis; (Monkey); (Rat) (Francesco Ferrari, P. (526) 259)

Intracerebroventricular; Osmotic minipump; Morphine pellet; Chronic; Naloxone; Withdrawal; Tolerance (Lenard, N.R. (527) 71)

Mice

Grooming behaviour; Anxiety; GABA; Diazepam; Pentylentetrazole (Kalueff, A.V. (508) 147)

Curcumin; Forced swimming; Tail suspension; Locomotor activity; Anti-depressant-like effect; Monoamine; Monoamine oxidase (Xu, Y. (518) 40)

Mice mixed cultures of cortical neurons

Bupivacaine; Levobupivacaine; Neurotoxicity; NMDA (Marganella, C. (518) 111)

Microdialysis

Diphenylpyraline; Dopamine release and uptake; Voltammetry; Locomotor activity (Lapa, G.B. (506) 237)

Substance abuse; Cocaine; Serotonin; Dopamine; Nucleus accumbens (Andrews, C.M. (508) 123)

Dopamine; Acetylcholine; Benzodiazepines; Valium; Withdrawal; Flumazenil; (Rat) (Rada, P. (508) 131)

Serotonin (5-hydroxytryptamine, 5-HT); Frontal cortex; Paroxetine; *N*-[2-[4-(2-methoxyphenyl)-1-piperazinyl]ethyl]-*N*-(pyridinyl)cyclohexanecarboxamide (WAY-100635); 5-HT_{1A} receptor; 8-Hydroxy-2-(di-*n*-propylamino)tetralin (8-OH-DPAT) (Hughes, Z.A. (510) 49)

Pain; Formalin test; Locus coeruleus; Noradrenaline (Sajedianfard, J. (512) 153)

Medial prefrontal cortex; Fluoxetine; Olanzapine; Osmotic minipump (Amargós-Bosch, M. (516) 235)

Amitriptyline; Adenosine; Adenosine uptake; Adenosine kinase; Adenosine deaminase (Sawynok, J. (518) 116)

Reactive oxygen species; Acute ethanol; Acetaldehyde; Acamprosate (Dahchour, A. (520) 51)

Dopamine; Eticlopride; Globus pallidus; Neuropeptide; SCH 23390; Striatum; Substantia nigra (Frankel, P.S. (522) 47)

Aminooxyacetic acid; *N*-Methyl-D-aspartate receptor; D-Serine; Serine racemase (Hashimoto, A. (525) 91)

Aggression; Genetics; Serotonin transporter; Monoamine oxidase A; 5-hydroxyindoleacetic acid; (Monkey); (Mice); (Rat) (Francesco Ferrari, P. (526) 259)

Zotepine; Serotonin (5-HT) release (Nakamura, S. (528) 95)

Microglia

Quercetin; Inducible nitric oxide synthase; Nuclear factor- κ B; Signal transducer and activator of transcription-1; Heme oxygenase-1 (Chen, J.-C. (521) 9)

Microparticle

Celecoxib; Retinal delivery; Oxidative stress; Diabetes (Ayalasomayajula, S.P. (511) 191)

Microsphere

Cerebral ischemia; BDNF; Synapsin I (Ando, T. (507) 49)

Oral hypoglycemic agent; Tolbutamide; Nitric oxide; Regional blood flow; Otsuka Long–Evans Tokushima Fatty rat (Iwase, M. (518) 243)

Migraine

Emesis; Nausea; Resiniferatoxin; Vanilloid; Sumatriptan; Dihydroergotamine; *Suncus murinus* (Cheng, F.H.M. (508) 231)

Sildenafil; Cerebral artery; Phosphodiesterase 5; Human (Kruuse, C. (521) 105)

Migration

Angiogenesis; Endothelial cell; Growth; Tube formation; MAP kinase (Tsuneki, H. (512) 105)

Milnacipran

Lithium carbonate; In vivo microdialysis; Noradrenaline; Dopamine; Serotonin (Kitaichi, Y. (516) 219)

In vivo microdialysis; Noradrenaline; Dopamine; Serotonin (Kitaichi, Y. (520) 37)

Milrinone

Adenosine; Calcium; cAMP; cGMP; GEA 3175; Nitric oxide; Phosphodiesterases; Platelets (Asplund Persson, A. (517) 149)

MIN6 cell

KCP256; Sulfonylurea; K_{ATP} channel; Insulin secretion; Pancreatic islet (Mori, K. (528) 176)

Misoprostol

COX-2; Prostaglandin; Ulcer healing; Omeprazole; Celecoxib (Poonam, D. (519) 277)

Mitochondria

Luteolin; Apoptosis; Caspase; Bcl-2; Bcl-X_L; Bad; Bax; Cleavage (Cheng, A.-C. (509) 1)

Neonatal rat cardiomyocyte; Cyclosporin A; Ischemia–reperfusion; Electrophysiology; Cell contraction; Protein release; Heat shock protein (Bès, S. (511) 109)

Mangiferin; Lipid peroxidation; Iron chelator (Andreu, G.P. (513) 47)

Apoptosis; Necrosis; Calcium ionophore; Clonazepam; Bcl-2 (Hamahata, K. (516) 187)

Ischemia; Valsartan; Heart; Cell biology; Cardioprotection (Monteiro, P. (518) 158)

Reticular stress; Apoptosis; Albumin; Neuroprotection (Gallego-Sandín, S. (520) 1)

Sampangine; Apoptosis; Reactive oxygen species; Plant alkaloid; Caspase (Kluza, J. (525) 32)

Resvaratrol; Rat liver; Antioxidant; Permeability transition pore; Reactive oxygen species; Ischemia–reperfusion (Plin, C. (528) 162)

Mitochondrial membrane permeability

1-Methyl-4-phenylpyridinium; Glibenclamide; PC12 cell; Cell injury (Lee, C.S. (527) 23)

Mitochondrial respiration

Memory improvement; Brain energy metabolism; Habituation; Recognition memory; (Rat) (Riha, P.D. (511) 151)

Mitochondrion

Permeability transition; Apoptosis; Neuroprotection (Fuks, B. (519) 24)

Mitogen-activated protein kinase

Satratoxin H; Reactive oxygen species; Apoptosis; Glutathione; *N*-Acetyl-L-cysteine (Nusuetrong, P. (507) 239)

Hypertension; Basal vascular tone; Vascular smooth muscle; Protein kinase C (Kim, J. (514) 209)

Mixed lineage kinase

Tumor necrosis factor- α ; MAP kinase inhibition (Ciallella, J.R. (515) 179)

MK-801

Morphine withdrawal; Δ FosB; Glutamate receptor; DNQX; Nucleus accumbens; Ventral tegmental area (Wang, H.-L. (527) 94)

MM-77

Anxiety; 5-HT_{1A} receptor; Stress; (Mouse) (Alfredo, B.-A. (508) 155)

MMP

5-LOX; Colon cancer; Cigarette smoke; Angiogenesis; VEGF1 (Ye, Y.N. (519) 52)

Moclobemide

Lamotrigine; Bipolar; Monoamine oxidase inhibition; 5-hydroxytryptophan; Tyramine (Southam, E. (519) 237)

Modality

MPEP; MTEP; Glutamate; Hyperalgesia; Allodynia (Zhu, C.Z. (506) 107)

Molsidomine

Sildenafil; Pulmonary hypertension; Acetylcholine; Atrial natriuretic peptide; (Chronic hypoxic rats) (Andersen, C.U. (510) 87)

Mometasone

Experimental allergic rhinitis; Sensitivity of histamine; Passive cutaneous anaphylaxis titer; Chlorpheniramine (Tsumuro, T. (524) 155)

(Monkey)

Aggression; Genetics; Serotonin transporter; Monoamine oxidase A; 5-hydroxyindoleacetic acid; Microdialysis; (Mice); (Rat) (Francesco Ferrari, P. (526) 259)

Monkey

8-Carboxamidocyclazocine; Kappa agonist; Cocaine; Drug self-administration; rhesus (Stevenson, G.W. (506) 133)

Monoamine

Curcumin; Forced swimming; Tail suspension; Locomotor activity; Antidepressant-like effect; Monoamine oxidase; Mice (Xu, Y. (518) 40)

Monoamine oxidase

Curcumin; Forced swimming; Tail suspension; Locomotor activity; Antidepressant-like effect; Monoamine; Mice (Xu, Y. (518) 40)

Imidazoline binding sites; Pig brain (Anderson, N.J. (519) 68)

SSAO (Semicarbazide-sensitive amine oxidase); Diabetes; Insulin; Adipose tissue (Visentin, V. (522) 139)

Monoamine oxidase A

Aggression; Genetics; Serotonin transporter; 5-hydroxyindoleacetic acid; Microdialysis; (Monkey); (Mice); (Rat) (Francesco Ferrari, P. (526) 259)

Monoamine oxidase inhibition

Lamotrigine; Bipolar; Moclobemide; 5-hydroxytryptophan; Tyramine (Southam, E. (519) 237)

Monoamine uptake

GBR 12935 derivative; Dopamine transporter; Hydrogen bonding; Cocaine antagonist; Striatum; (Rat) (Zhen, J. (506) 17)

Monoamines

5-HT₇ (5-hydroxytryptamine₇) receptors; Exploratory behavior; Hole-board test; Amygdala; (Mouse) (Takeda, H. (518) 30)

Monoclonal antibody

(+)-Methamphetamine; (+)-Amphetamine; (Rat) (Byrnes-Blake, K.A. (521) 86)

Monocyte

Prostaglandin; Adhesion molecule (Takahashi, H.K. (512) 223)

Prostaglandin; Adhesion molecule (Takahashi, H.K. (517) 252)

Monogalactosyldiglyceride

Inflammation; Croton oil; Carrageenan; Cyclooxygenase; Lipoxigenase (Bruno, A. (524) 159)

Monoterpenoid

GABA_A receptor; Glycine receptor; Menthol (Hall, A.C. (506) 9)

Mood

Cognition; Depression; Learning and memory; Open space swim test; Protein kinase C (Sun, M.-K. (512) 43)

Morphine

Cyclosporin A; L-NAME (*N*^G-nitro-L-arginine methyl ester); Aminoguanidine; Nitric oxide; Neuroimmunophilin ligands; Conditioned place preference (Langroudi, R.M. (507) 107)

Neuropeptide FF; Receptor; Analgesia; (Mouse) (Quelven, I. (508) 107)

Sheep Purkinje fibre; Phencyclidine; 'Ecstasy'; Cocaine; Cocaethylene; Δ⁹-tetrahydrocannabinol; (+)-methamphetamine (Sheridan, R.D. (511) 99)

α-Naphthylthiourea; Naloxone methiodide; Pulmonary oedema; Inflammation (Comert, M. (511) 183)

[Dmt¹]DALDA; Respiratory depression; Hypoxic respiratory response (Shimoyama, M. (511) 199)

Naltrexone; Dextromethorphan; Mecamylamine; Bupropion; Opioid withdrawal (Taraschenko, O.D. (513) 207)

5-HT_{1A} receptor; c-Fos protein; Formalin; F 13640; Rat spinal cord (Buritova, J. (514) 121)

Agmatine; Conditioned place preference; Imidazoline receptor (Wei, X.-L. (515) 99)

Naloxone; Place aversion; α₇ Nicotinic acetylcholine receptor subtype; α₄β₂ Nicotinic acetylcholine receptor subtype (Motoshima, S. (519) 91)

δ-opioid receptor; Receptor phosphorylation (Navratilova, E. (519) 212)

Conditioned place aversion; Dopamine; G-protein-activated inwardly rectifying potassium channel; Withdrawal (Sato, M. (519) 215)

GABA receptor; Conditioned place preference; Ventral tegmental area; (Rat) (Sahraei, H. (524) 95)

D-Amino acid oxidase; NMDA (*N*-methyl-D-aspartate) receptor; D-Serine; Serine racemase (Yoshikawa, M. (525) 94)

Naltrexone; Medial habenula; Interpeduncular nucleus; Locus coeruleus; Physical dependence (Panchal, V. (525) 98)

Locus coeruleus; Synchronous activity; Single unit recording; Excitatory amino acid (Zhu, H. (528) 73)

Morphine addiction

β-carboline; Norharman; Imidazoline I₂ receptor; [³H]2-BFI; [³H]Ro41-1049; [³H]Ro19-6327 (lazabemide); (Rat) brain and liver (Miralles, A. (518) 234)

Morphine analgesia

NMDA receptor antagonist; Memantine; Neramexane; Clonidine; Rat sciatic nerve; Allodynia; Experimental nerve injury (Malyshkin, A.A. (519) 80)

Morphine pellet

Intracerebroventricular; Osmotic minipump; Chronic; Naloxone; Withdrawal; Tolerance; (Mice) (Lenard, N.R. (527) 71)

Morphine physical dependence

κ-Opioid receptor; JDTic; (Rat) (Carroll, F.I. (524) 89)

Morphine withdrawal

Fos; Heart; Tyrosine hydroxylase; Western blot (González-Cuello, A. (506) 119)

Opioid; Naltrexone; Sensitization; Fos; Guinea-pig (Mizutani, A. (509) 135)

Heart; Protein kinase A; Protein kinase C (Cerezo, M. (522) 9)

ΔFosB; Glutamate receptor; DNQX; MK-801; Nucleus accumbens; Ventral tegmental area (Wang, H.-L. (527) 94)

Morphine withdrawal syndrome

Neonatal rat; Serotonin reuptake transporter inhibitor; Naloxone (Wu, C.-C. (512) 37)

Morphometry

Quinapril; Atorvastatin; Apoptosis; Confocal microscopy; Hypertension; Vascular reactivity (Yang, L. (518) 145)

Morris water maze

Stereotaxic surgery; Cyclooxygenase; Hippocampus (Sharifzadeh, M. (511) 159)

Mortality

Transdermal patch; Physostigmine; Procyclidine; Soman; Brain injury; Incapacitation (Kim, W.-S. (525) 135)

Motilin

Gastrointestinal motility; Ghrelin; Metoclopramide; Prokineticin (Bassil, A.K. (524) 138)

Motility

Streptozotocin-diabetes; Colon; Ileum; Calcium; (rat) (Forrest, A. (509) 77)

Motivation

CB₁; Endocannabinoid; Conditioning; Food consumption; Knock-out (Hölter, S.M. (510) 69)

Motoneuron

AMPA receptor antagonist; Newborn mouse; Stroke; Interleukin-1 β ; GYKI 52466; GYKI 53405; EGIS-8332; EGIS-10608 (Gressens, P. (519) 58)

(Mouse)

Adenosine receptor; N⁶-Cyclopentyladenosine; Haematopoietic progenitor cell; 5-Fluorouracil (Pospišil, M. (507) 1)

Neuropeptide FF; Receptor; Morphine; Analgesia (Quelven, I. (508) 107)

MM-77; Anxiety; 5-HT_{1A} receptor; Stress (Alfredo, B.-A. (508) 155)

Light–dark box; Anxiety; Nicotine; Startle; Withdrawal; Prepulse inhibition (Jonkman, S. (516) 40)

Imidazoline I₂ binding site; 2-BFI; Autoradiography; MAO-B; Brain (MacInnes, N. (516) 139)

5-HT₇ (5-hydroxytryptamine₇) receptors; Exploratory behavior; Hole-board test; Monoamines; Amygdala (Takeda, H. (518) 30)

ACTH (adrenocorticotrophic hormone); Corticosterone; GABA; Paraventricular nucleus; Stress; L-838,417; Diazepam; Zolpidem; Zopiclone (Mikkelsen, J.D. (519) 223)

Caffeine; Adenosine A_{2A} receptor (El Yacoubi, M. (519) 290)

mouse

EDHF (Endothelial derived hyperpolarising factor); 14,15 EEZE; Hyperpolarisation; U46619; Mesenteric artery (Harrington, L.S. (506) 165)

Mouse

Mustard oil; Neurogenic inflammation; Substance P; CGRP (Grant, A.D. (507) 273)

Mouse aorta

Oestrogen receptor α ; Oestrogen receptor β ; Oestrogen receptor; PPT (4,4',4''-(4-propyl-[1H]-pyrazole-1,3,5-triyl) tris-phenol); DPN (2,3-bis(4-hydroxyphenyl)-propionitrile); Mouse mesenteric artery (Al Zubair, K. (513) 101)

Mouse ileum

PACAP-27 (pituitary adenylate cyclase activating peptide); Phospholipase C; Inositol 1,4,5-triphosphate; Muscular inhibition (Zizzo, M.G. (521) 133)

Mouse mesenteric artery

Oestrogen receptor α ; Oestrogen receptor β ; Oestrogen receptor; PPT (4,4',4''-(4-propyl-[1H]-pyrazole-1,3,5-triyl) tris-phenol); DPN (2,3-bis(4-hydroxyphenyl)-propionitrile); Mouse aorta (Al Zubair, K. (513) 101)

Mouse stomach

ATP; P2X receptor; P2Y receptor; Contraction; Relaxation (Mulè, F. (513) 135)

Movement disorder

Dyskinesia; GABA (γ -aminobutyric acid) (Kreil, A. (521) 95)

MPEP

MTEP; Glutamate; Hyperalgesia; Allodynia; Modality (Zhu, C.Z. (506) 107)

Glutamate; Lower esophageal sphincter; 2-methyl-6-(phenylethynyl)-pyridine; Gastroesophageal reflux (Jensen, J. (519) 154)

MRL/lpr mouse

Pruritus; Scratching behavior; κ -opioid agonist (Umeuchi, H. (518) 133)

MTEP

MPEP; Glutamate; Hyperalgesia; Allodynia; Modality (Zhu, C.Z. (506) 107)

Multichannel block

Terikalant; Cellular electrophysiology; Antiarrhythmic action (Biliczki, P. (510) 161)

Multidrug resistance

Polymorphism; Methotrexate; Dexamethasone (Pawlik, A. (528) 27)

Mu-opioid receptor

Opioid; Adolescence (White, D.A. (528) 119)

Murine GABA transporter (mGAT1-4)

GABA (γ -aminobutyric acid) uptake; Structure activity relationship; Subtype selectivity (Kragler, A. (519) 43)

Muscarinic cholinergic receptor

Transmural electrical stimulation; Short-circuit current; 5-hydroxytryptamine₃ receptor; Intestinal mucosa (Townsend IV, D. (519) 285)

Muscarinic receptor

Hypothyroidism; Blood pressure; Adrenoceptor; Nitric oxide (NO) (Iwata, T. (507) 311)

Muscarinic receptor antagonist

Solifenacin; Detrusor overactivity; Cerebral infarction (Suzuki, M. (512) 61)

Muscarinic receptors

Olanzapine; Clozapine; Thioridazine; Acetylcholine (Johnson, D.E. (506) 209)

Muscimol

Pyruvate; Glucose; Metabolism; Spontaneous alternation; Shock avoidance; Hippocampus (Krebs, D.L. (520) 91)

Muscle weakening

Botulinum toxin type-A; M toxin; Grip strength (Yoneda, S. (508) 223)

Muscular inhibition

PACAP-27 (pituitary adenylate cyclase activating peptide); Phospholipase C; Inositol 1,4,5-triphosphate; Mouse ileum (Zizzo, M.G. (521) 133)

Mustard oil

Neurogenic inflammation; Substance P; CGRP; Mouse (Grant, A.D. (507) 273)

Myeloperoxidase

Celecoxib; Rofecoxib; Acetic-acid-induced colitis; Reduced glutathione; Total nitric oxide synthetase (El-Medany, A. (507) 291)

PARP-1; GPI 15427; GPI 16539; Colitis; Ischemia/Reperfusion (Di Paola, R. (527) 163)

Myeloprotection

Rosiglitazone; Stem cell; CFU-GM (Granulocyte–macrophage progenitor cell); Neutropenia; Insulin (Djazayeri, K. (522) 122)

Myocardial contractility

Adrenergic downregulation; Phosphodiesterase inhibitor; cAMP (Osadchii, O. (514) 201)

Myocardial hypertrophy

Angiotensin-converting enzyme; Renin–angiotensin system; Isoproterenol; β -adrenoceptor (Oliveira, E.M. (520) 135)

Myocardial infarction

Conivaptan hydrochloride; Vasopressin; Vasopressin V_{1A} receptor; Vasopressin V_2 receptor; Aquaretic effect; Hemodynamics (Wada, K.-i. (507) 145)

Coronary circulation; Endothelial function; Remodeling; Vasodilatation; Nitric oxide; Superoxide (Berges, A. (516) 60)

Angiotensin I-converting enzyme inhibitor; Angiotensin II type 1 receptor blocker; Calpain; Dystrophin glycoprotein complex; Hypertrophy (Takahashi, M. (522) 84)

Angiotensin-converting enzyme inhibition; Diuretic; Pharmacokinetics (Westendorp, B. (527) 141)

Cardiovascular; Heart; Ischemia and reperfusion; Cysteine protease; Calpain inhibitor (Khalil, P.N. (528) 124)

Myocardial ischemia

Coronary circulation; Coronary vasoconstriction; Endothelin receptor; Endothelial dysfunction (Climent, B. (524) 102)

Myocardial ischemia and reperfusion injury

Na^+/H^+ exchange; Ischemic preconditioning (Yamada, K. (521) 115)

Myocardial necrosis

Brain natriuretic peptide; Corin; Neutral endopeptidase (Jiang, W. (507) 153)

Myometrium

YC-1; DETA/NO; Soluble guanylate cyclase activator; Nitric oxide donor (Demirkoprulu, N. (517) 240)

Myotube culture

Melatonin; Nicotinic acetylcholine receptor; α -Bungarotoxin; Cyclic AMP; Calmodulin (de Almeida-Paula, L.D. (525) 24)

 N^1 -dansyl-spermine

Cortical slice; Epileptiform activity; NMDA receptor; Spermine; DBA/2 mice (Kirby, B.P. (524) 53)

***N*-[2-[4-(2-methoxyphenyl)-1-piperazinyl]ethyl]-*N*-(pyridinyl)cyclohexanecarboxamide (WAY-100635)**

Serotonin (5-hydroxytryptamine, 5-HT); Microdialysis; Frontal cortex; Paroxetine; 5-HT $_{1A}$ receptor; 8-Hydroxy-2-(di-*n*-propylamino)tetralin (8-OH-DPAT) (Hughes, Z.A. (510) 49)

 N^6 -Cyclopentyladenosine

Adenosine receptor; Haematopoietic progenitor cell; 5-Fluorouracil; (Mouse) (Pospíšil, M. (507) 1)

 Na^+ channel

Alzheimer's disease; Cholinesterase inhibitor; Donepezil (E2020); K^+ channel (Yu, B. (508) 15)

NAAG, (*N*-acetylaspartylglutamate)

NMDA, (*N*-methyl-D-aspartate); Neuroprotection; GCP II, (glutamate carboxypeptidase II); NAALADase, (*N*-acetylated- α -linked acidic dipeptidase); Dynorphin A (Long, J.B. (508) 115)

NAALADase, (*N*-acetylated- α -linked acidic dipeptidase)

NMDA, (*N*-methyl-D-aspartate); NAAG, (*N*-acetylaspartylglutamate); Neuroprotection; GCP II, (glutamate carboxypeptidase II); Dynorphin A (Long, J.B. (508) 115)

 Na^+/Ca^{2+} exchange

Ischemia/reperfusion; Arrhythmia; Digitalis (Nagasawa, Y. (506) 249)

***N*-acetylcysteine**

Fructose; Oxidative stress; Insulin resistance; Hypertension (Song, D. (508) 205)

***N*-Acetylcysteine**

Nitric oxide; Nitric oxide store; Organic nitrate; Superoxide anion; Tolerance (Sarr, M. (513) 119)

***N*-Acetyl-L-cysteine**

Satratoxin H; Reactive oxygen species; Apoptosis; Glutathione; Mitogen-activated protein kinase (Nusuetrong, P. (507) 239)

NAD(P)H oxidase

Diabetes mellitus; Endothelial dysfunction; Oxygen radical; Beta 1-adrenoceptor antagonist; Angiotensin AT $_1$ receptor antagonist (Dorenkamp, M. (520) 179)

NADPH oxidase

Superoxide anion; Nitrotyrosine; Superoxide dismutase; Endothelial nitric oxide synthetase; Type II diabetes (Bitar, M.S. (511) 53)

Erectile dysfunction; Cholesterol; Superoxide (Shukla, N. (517) 224)

 Na^+/H^+ exchanger

KR-32570; Cardioprotective effect; Lipid peroxidation (Lee, B.H. (511) 175)

KR-32570; Cardioprotection; Antiarrhythmia (Lee, B.H. (523) 101)

 Na^+/H^+ exchanger

KR-32570; H9c2 cardiomyocyte; Hypoxia1 (Kim, M.J. (525) 1)

 Na^+/H^+ exchange

Myocardial ischemia and reperfusion injury; Ischemic preconditioning (Yamada, K. (521) 115)

Na⁺/K⁺-ATPase

Endotoxin; Sepsis; Cardiac glycoside; Mathematical modeling (Baek, M. (514) 43)

Naloxone

Morphine withdrawal syndrome; Neonatal rat; Serotonin reuptake transporter inhibitor (Wu, C.-C. (512) 37)

Morphine; Place aversion; α_7 Nicotinic acetylcholine receptor subtype; $\alpha_4\beta_2$ Nicotinic acetylcholine receptor subtype (Motoshima, S. (519) 91)

Interferon alpha; Beta; Gamma; Immune; Endocrine; Sleep; Food; Temperature; Glucose sensitive; Opiate (Dafny, N. (523) 1)

Intracerebroventricular; Osmotic minipump; Morphine pellet; Chronic; Withdrawal; Tolerance; (Mice) (Lenard, N.R. (527) 71)

Naloxone methiodide

α -Naphthylthiourea; Morphine; Pulmonary oedema; Inflammation (Comert, M. (511) 183)

Naltrexone

Morphine withdrawal; Opioid; Sensitization; Fos; Guinea-pig (Mizutani, A. (509) 135)

Morphine; Dextromethorphan; Mecamylamine; Bupropion; Opioid withdrawal (Taraschenko, O.D. (513) 207)

Morphine; Medial habenula; Interpeduncular nucleus; Locus coeruleus; Physical dependence (Panchal, V. (525) 98)

L-NAME (*N*^G-nitro-L-arginine methyl ester)

Cyclosporin A; Morphine; Aminoguanidine; Nitric oxide; Neuroimmunophilin ligands; Conditioned place preference (Langroudi, R.M. (507) 107)

Nandrolone

Kidney; α_{1B} -adrenoceptor; MDCK-D1 (Lindblom, J. (527) 157)

 α -Naphthylthiourea

Morphine; Naloxone methiodide; Pulmonary oedema; Inflammation (Comert, M. (511) 183)

Natriuretic peptide receptor A

C-type natriuretic peptide; Central nervous system; Exocrine pancreatic secretion; cGMP pathway; Natriuretic peptide receptor B; c-ANP-(4-23) amide (Sabbatini, M.E. (524) 67)

Natriuretic peptide receptor B

C-type natriuretic peptide; Central nervous system; Exocrine pancreatic secretion; cGMP pathway; Natriuretic peptide receptor A; c-ANP-(4-23) amide (Sabbatini, M.E. (524) 67)

Nausea

Cisplatin; Emesis; 5-HT₃ receptor; Tachykinin NK₁ receptor; Anti-emetic (Lau, A.H.Y. (506) 241)

Emesis; Migraine; Resiniferatoxin; Vanilloid; Sumatriptan; Dihydroergotamine; *Suncus murinus* (Cheng, F.H.M. (508) 231)

Lithium chloride; Place conditioning; Biased conditioning apparatus; Toxin; Long-Evans rat; Open-field (Tenk, C.M. (515) 117)

Apomorphine; Domperidone; Emesis; Dopamine (Lau, A.H.Y. (516) 247)

NBTI (nitrobenzylthioinosine)

NOP (nociceptin opioid peptide); Paracetamol; Autoradiography; Adenosine uptake; Nociceptin (Godfrey, L. (508) 99)

NCAM

Thinner; Learning; Memory; (Rat) (Baydas, G. (512) 181)

NC/Nga mice

IL-31; Scratching (Takaoka, A. (516) 180)

Nebivolol

Renal artery; Vasodilation; Hyperpolarization (Georgescu, A. (508) 159)

D/L-Nebivolol

β -Adrenoceptor; β -Adrenoceptor antagonist; Hypertension; NO (nitric oxide); Vasodilation (Sacco, G. (511) 167)

Necrosis

Apoptosis; Mitochondria; Calcium ionophore; Clonazepam; Bcl-2 (Hamahata, K. (516) 187)

Necrotic morphological change

Neutrophils; Apoptosis; IgG; Kawasaki disease (Sugita, K. (513) 141)

Negative affect

Aggression; Antidepressant; Impulse regulation; Personality trait; Dominance; Affiliative behaviour (Bond, A.J. (526) 218)

Neocortex

Baclofen; 3-Chloro,4-methoxyfendiline; Pre- and postsynaptic GABA_B receptor; (Rat) (Ong, J. (507) 35)

Neonatal rat

Morphine withdrawal syndrome; Serotonin reuptake transporter inhibitor; Naloxone (Wu, C.-C. (512) 37)

Neonatal rat cardiomyocyte

Cyclosporin A; Ischemia–reperfusion; Electrophysiology; Cell contraction; Protein release; Heat shock protein; Mitochondria (Bès, S. (511) 109)

Nephrosis

Dopamine D1-like receptor; Proteinuria; Puromycin aminonucleoside; Zelandopam (Yatsu, T. (510) 121)

Neramexane

NMDA receptor antagonist; Memantine; Morphine analgesia; Clonidine; Rat sciatic nerve; Allodynia; Experimental nerve injury (Malyshkin, A.A. (519) 80)

Nerve growth factor

Immunophilin; MAP kinase; Neurite outgrowth (Price, R.D. (509) 11)

Huperzine A; Oxidative stress; MAP (mitogen-activated protein) kinase; TrkA (tyrosine kinase A) receptor (Tang, L.-L. (519) 9)

NESS 0327

Cannabinoid CB₁ receptor; Sympathetic nervous system; P2X receptor (Tambaro, S. (525) 150)

Neural lobe

Pituitary; Interferon- γ ; Interleukin-1 β ; Interleukin-6; Nitric oxide; Neurophytophysis (Thorn, A. (519) 168)

Neural mechanism

Aggression; Sexual behaviour; c-Fos; Serotonin; Pharmacology; Male (Rat) (Veening, J.G. (526) 226)

Neurite outgrowth

Immunophilin; Nerve growth factor; MAP kinase (Price, R.D. (509) 11)

Honokiol; Cortical neuron, rat; ERK1/2; CaMK II (Zhai, H. (516) 112)

Neuroactive steroid

Cortisol; 11-Deoxycortisol; GABA_A receptor; 3 α ,5 β -Reduced cortisol; Tetrahydrodeoxycorticosterone (Penland, S.N. (506) 129)

Neurodegeneration

Free radical scavenger; Ischaemia; Kainic acid; S34176; Nitrone (Lockhart, B. (511) 127)

Neurodevelopment

Adenosine; Caffeine; Maternal intake; Glutamate; Locomotor activity (da Silva, R.S. (509) 155)

Neurogenic inflammation

Mustard oil; Substance P; CGRP; Mouse (Grant, A.D. (507) 273)

Neuroimmunophilin ligands

Cyclosporin A; Morphine; L-NAME (*N*^G-nitro-L-arginine methyl ester); Aminoguanidine; Nitric oxide; Conditioned place preference (Langroudi, R.M. (507) 107)

Neurokinin

Circadian; Suprachiasmatic; Raphe; Depression (Gannon, R.L. (527) 86)

Neurokinin receptor antagonist

Forced swim test; Depression; CP-96,345; SR 48968; SR 142801 (Dableh, L.J. (507) 99)

Neuroleptics

Aggression; Serotonin; Defense; Frustration; Alcohol; Dopamine; GABA; Benzodiazepines (de Almeida, R.M.M. (526) 51)

Neurometer

Neuropathic pain; Allodynia; Formalin test; Antinociception; (Rat) (Akada, Y. (523) 46)

Neuronal death

BK_{Ca} (large-conductance Ca²⁺-activated K⁺ channel); Cerebral cortex; Chemical ischemia; Excitotoxicity (Katsuki, H. (508) 85)

Neuronal nicotinic receptor

α 7 nicotinic receptor; Nicotine; Receptor binding; Methyllycaconitine; Epibatidine (Nuutinen, S. (515) 83)

Neuronal nitric oxide synthase

Nitrgenic neurotransmission; Fundic compliance; ARL 17477; (Pig) (Lefebvre, R.A. (525) 143)

Neuropathic pain

Analgesic; Inflammatory pain; Nociception; (Rat, Mouse) (Christoph, T. (507) 87)

Cannabinoid; Cannabinoid CB₁ receptor; Cannabinoid CB₂ receptor; Vanilloid TRPV-1 receptor; Spinal cord; Fos (Rodella, L.F. (508) 139)

Nicotinic acetylcholine receptor; Cancer pain; Allodynia; Analgesia; Vincristine (Lynch III, J.J. (509) 43)

Allodynia; Formalin test; Antinociception; Neurometer; (Rat) (Akada, Y. (523) 46)

Cold allodynia; Phentolamine; Prazosin; Yohimbine; α -adrenoreceptor (Kim, S.K. (523) 64)

Glucocorticoid receptor; N-type calcium channel; cDNA microarray (Takasaki, I. (524) 80)

Cannabinoid CB₂ receptor; GW405833; Inflammatory pain; Knockout; Opioid (Whiteside, G.T. (528) 65)

Neuropeptide

Dopamine; Eticlopride; Globus pallidus; Microdialysis; SCH 23390; Striatum; Substantia nigra (Frankel, P.S. (522) 47)

Neuropeptide FF

Receptor; Morphine; Analgesia; (Mouse) (Quelven, I. (508) 107)

Neuropeptide release

Cisplatin; Sensory neuropathy (Horvath, P. (507) 247)

Neurohypophysis

Pituicytes; Interferon- γ ; Interleukin-1 β ; Interleukin-6; Nitric oxide; Neural lobe (Thorn, A. (519) 168)

Neuroprotection

Stroke; Apoptosis; Thiobarbituric acid reacting substance; Oxygen radical (Feng, Y. (507) 77)

NMDA, (*N*-methyl-D-aspartate); NAAG, (*N*-acetylaspartylglutamate); GCP II, (glutamate carboxypeptidase II); NAALADase, (*N*-acetylated- α -linked acidic dipeptidase); Dynorphin A (Long, J.B. (508) 115)

Kynurenic acid; Probenecid; Glucosamine-kynurenic acid; Hippocampus; (Rat) (Robotka, H. (513) 75)

Edaravone; Free radical scavenger; Apoptosis; Focal ischemia (Amemiya, S. (516) 125)

Permeability transition; Apoptosis; Mitochondrion (Fuks, B. (519) 24)

Reticular stress; Apoptosis; Mitochondria; Albumin (Gallego-Sandín, S. (520) 1)

5-HT₃ receptor antagonist; MDL72222; Y25130; 5-HT₃ receptor; β -Amyloid protein; Neurotoxicity; Cortical neuron (Ju Yeon Ban (520) 12)

Acetylcholinesterase inhibitor; Nicotinic acetylcholine receptor; Up-regulation; Alzheimer's disease (Kume, T. (527) 77)

Neurosteroid antagonism

Allopregnanolone (3 α -hydroxy-5 α -pregnan-20-one); Isoallopregnanolone (3 β -hydroxy-5 α -pregnan-20-one); Anaesthesia threshold; Male; (Rat) (Bäckström, T. (512) 15)

Neurotensin

Ventricular contractility; Inotropic effect (Osadchii, O. (520) 108)

Neurotoxicity

Bupivacaine; Levobupivacaine; NMDA; Mice mixed cultures of cortical neurons (Marganella, C. (518) 111)

5-HT₃ receptor antagonist; MDL72222; Y25130; 5-HT₃ receptor; β -Amyloid protein; Cortical neuron; Neuroprotection (Ju Yeon Ban (520) 12)

Neurotransmitter

Acetylcholine; K_{ATP} channel; Patch clamp; Smooth muscle cell; Stable transfection (Hanna, S.T. (515) 34)

Neutral endopeptidase

Brain natriuretic peptide; Corin; Myocardial necrosis (Jiang, W. (507) 153)

Neutropenia

Rosiglitazone; Myeloprotection; Stem cell; CFU-GM (Granulocyte-macrophage progenitor cell); Insulin (Djazayeri, K. (522) 122)

Neutrophil

N-formylmethionyl peptide; human; Chemotaxis; Superoxide anion generation; Lysozyme release; Receptor binding (Cavicchioni, G. (512) 1)

MCP-1 (Monocyte chemoattractant protein-1); Dexamethasone; Acute lung injury; Cyclosporin A; Tacrolimus (Koshika, T. (515) 169)

Azithromycin; Chronic obstructive pulmonary disease (COPD); Inflammation marker; Cytokine (Parnham, M.J. (517) 132)

Platelet; YC-1; P-selectin; Cathepsin G; fMLP; Whole blood (Liao, C.-H. (519) 158)

Leukocyte; Intimal hyperplasia; Selectin; Phytic acid (Shimazawa, M. (520) 156)

Histamine H₄ receptor antagonist; JNJ 7777120; JNJ 10191584; Colitis; Inflammatory bowel disease; Tumour necrosis factor- α (Varga, C. (522) 130)

Neutrophil migration

Sepsis; Mast cell; Compound 48/80 (Carvalho, M. (525) 161)

Neutrophils

Apoptosis; Necrotic morphological change; IgG; Kawasaki disease (Sugita, K. (513) 141)

New quinolone

Nonsteroidal anti-inflammatory drug; Drug interaction; Convulsion; GABA_A receptor (Yoshino, T. (507) 69)

Newborn mouse

AMPA receptor antagonist; Stroke; Interleukin-1 β ; Motoneuron; GYKI 52466; GYKI 53405; EGIS-8332; EGIS-10608 (Gressens, P. (519) 58)

NF- κ B

Diabetes; Liver; Thioacetamide; Tissue repair (Devi, S.S. (523) 127)

COX-2; Plaunotol; Gastric epithelial cells; CRE (Fu, H.Y. (524) 38)

NF- κ B (nuclear factor- κ B)

Protocatechuic aldehyde; Endothelial cell; Adhesion; AP-1 (activator protein-1) (Zhou, Z. (513) 1)

Brazilin; NO (nitric oxide); iNOS (inducible nitric oxide synthase); AP-1 (activator protein-1); Anti-inflammatory (Bae, I.-K. (513) 237)

***N*-formylmethionyl peptide**

Neutrophil; human; Chemotaxis; Superoxide anion generation; Lysozyme release; Receptor binding (Cavicchioni, G. (512) 1)

NG 108-15 cell

5-HT₃ serotonin receptor binding; Allosteric modulation; Slope of displacement; Verapamil; Ifenprodil (Maksay, G. (514) 17)

NG108-15 cells

Paeoniflorin; L-type Ca²⁺ current (Tsai, T.-Y. (523) 16)

N^ω-hydroxy-L-arginine homologue

Hydroxylamine; Nitric oxide release; Vasorelaxation; Electron paramagnetic resonance (Beranova, P. (516) 260)

Nicotine

Epibatidine; Tyrosine hydroxylase; Calcium; Transcription (Gueorguiev, V.D. (506) 37)

Cocaine; Behavioral conditioning; Development; Substance abuse; Rat (McMillen, B.A. (509) 161)

Epibatidine; Nomifensine; Dopamine; Nucleus accumbens; Caudate-putamen; In vivo microdialysis (Janhunen, S. (511) 143)

Desensitization; Acetylcholine; Nicotinic receptor; Smoking; Phosphorylation (Marszalec, W. (514) 83)

α 7 nicotinic receptor; Neuronal nicotinic receptor; Receptor binding; Methyllycaconitine; Epibatidine (Nuutinen, S. (515) 83)

Withdrawal; Hyperalgesia; Knockout (Grabus, S.D. (515) 90)

Light–dark box; Anxiety; Startle; Withdrawal; Prepulse inhibition; (Mouse) (Jonkman, S. (516) 40)

Subjective effect; Drug discrimination; Reward; Ethanol; (Rat) (Le Foll, B. (519) 96)

Nicotinic antagonists; Analgesia; Drug discrimination (Damaj, M.I. (521) 43)

Alcohol; Cocaine; Drug addiction; Opiates; Pharmacotherapy (Heidbreder, C. (526) 101)

Nicotine discrimination

Ethanol; Antagonism; Blood ethanol level (Korkosz, A. (512) 165)

Nicotinic acetylcholine receptor

Cancer pain; Neuropathic pain; Allodynia; Analgesia; Vincristine (Lynch III, J.J. (509) 43)

Melatonin; α -Bungarotoxin; Myotube culture; Cyclic AMP; Calmodulin (de Almeida-Paula, L.D. (525) 24)

Acetylcholinesterase inhibitor; Up-regulation; Neuroprotection; Alzheimer's disease (Kume, T. (527) 77)

 α ₄ β ₂ Nicotinic acetylcholine receptor subtype

Morphine; Naloxone; Place aversion; α 7 Nicotinic acetylcholine receptor subtype (Motoshima, S. (519) 91)

 α 7 Nicotinic acetylcholine receptor subtype

Morphine; Naloxone; Place aversion; α ₄ β ₂ Nicotinic acetylcholine receptor subtype (Motoshima, S. (519) 91)

Nicotinic antagonists

Nicotine; Analgesia; Drug discrimination (Damaj, M.I. (521) 43)

Nicotinic receptor

Nicotine; Desensitization; Acetylcholine; Smoking; Phosphorylation (Marszalec, W. (514) 83)

Lymphocyte; Immune response (Skok, M. (517) 246)

 α 7 nicotinic receptor

Neuronal nicotinic receptor; Nicotine; Receptor binding; Methyllycaconitine; Epibatidine (Nuutinen, S. (515) 83)

Voltage-clamp; Alzheimer's disease; Acetylcholine binding protein (Papke, R.L. (524) 11)

Nifedipine

Chloride channel; Niflumic acid; Bumetanide; Pulmonary artery; rat (Oriowo, M.A. (506) 157)

Niflumic acid

Chloride channel; Bumetanide; Nifedipine; Pulmonary artery; rat (Oriowo, M.A. (506) 157)

Rat portal vein; Capacitative Ca^{2+} entry; Store operated Ca^{2+} entry; Cyclopiazonic acid (Burt, R.P. (510) 97)

Nitration

β -adrenoceptors; Peroxynitrite; Redox; Vasodilation; Heart rate; (Rat) (Lewis, S.J. (518) 187)

Nitroergic innervation

Prostacyclin; Mesenteric artery (Ferrer, M. (506) 151)

Nitroergic nerve

β -Adrenoceptor antagonist; Nitric oxide; Sodium channel activator; *Tityus serrulatus* venom (Teixeira, C.E. (519) 146)

Nitroergic neuron

Ileum; Nitric oxide; Peristalsis; Propelled liquid volume; (Hamster) (Shiina, T. (517) 120)

Nitroergic neurotransmission

Fundic compliance; Neuronal nitric oxide synthase; ARL 17477; (Pig) (Lefebvre, R.A. (525) 143)

Nitric oxide

Cyclosporin A; Morphine; L-NAME (N^G -nitro-L-arginine methyl ester); Aminoguanidine; Neuroimmunophilin ligands; Conditioned place preference (Langroudi, R.M. (507) 107)

Rho-kinase; eNOS; Hypertension; Endothelial function; Y27632 (Löhn, M. (507) 179)

Diabetes; Mesenteric vascular bed; Magnesium; Endothelium dysfunction; (Rat) (Soltani, N. (508) 177)

Tumor necrosis factor alpha; Aminoguanidine; Superoxide; Endotoxin (Lin, H.-C. (508) 249)

Angiogenesis; Endothelial cell; Free radical; Endothelial nitric oxide synthase (Polytarchou, C. (510) 31)

Lung injury; Oleic acid; Rho-kinase; Y-27632 (Köksel, O. (510) 135)

Soluble guanylate cyclase; Heme; cGMP; BAY 58-2667; BAY 41-2272; YC-1 (Schmidt, P.M. (513) 67)

N-Acetylcysteine; Nitric oxide store; Organic nitrate; Superoxide anion; Tolerance (Sarr, M. (513) 119)

Halogenated volatile anaesthetic; EPR spectroscopy; Inducible and neuronal nitric oxide synthase; Lipopolysaccharide; NOS inhibitor (Sjakste, N. (513) 193)

Cholestasis; Mesenteric vascular bed; α_2 -Adrenoceptor; Clonidine; Opioid (Borhani, A.A. (514) 183)

Acetylcholine; Cyclic GMP; Potassium channel; Prostanoid; Endothelial muscarinic receptor; Horse dorsal penile vein (Martínez, A.C. (515) 150)

Coronary circulation; Endothelial function; Myocardial infarction; Remodeling; Vasodilatation; Superoxide (Berges, A. (516) 60)

Ileum; Nitroergic neuron; Peristalsis; Propelled liquid volume; (Hamster) (Shiina, T. (517) 120)

Adenosine; Calcium; cAMP; cGMP; GEA 3175; Milrinone; Phosphodiesterases; Platelets (Asplund Persson, A. (517) 149)

Diastole; Prostaglandin; Vasodilatation; Adenosine (Kisch-Wedel, H. (517) 208)

Acute renal failure; Ischemia/reperfusion; Endothelin-1 (Kurata, H. (517) 232)

Leptin; Blood flow; Endothelium; Blood pressure (Rahmouni, K. (518) 175)

Eosinophil; Airway inflammation; Asthma; Hyperreactivity (Landgraf, R.G. (518) 212)

Oral hypoglycemic agent; Tolbutamide; Microsphere; Regional blood flow; Otsuka Long–Evans Tokushima Fatty rat (Iwase, M. (518) 243)

β -Adrenoceptor antagonist; Nitroergic nerve; Sodium channel activator; *Tityus serrulatus* venom (Teixeira, C.E. (519) 146)

Pituitocytes; Interferon- γ ; Interleukin- 1β ; Interleukin-6; Neural lobe; Neurohypophysis (Thorn, A. (519) 168)

Angiotensin II; Eicosanoid; Cyclooxygenase; Cytochrome P_{450} epoxygenase; $\text{TXA}_2/\text{PGH}_2$ receptor (Jerez, S. (520) 127)

Dephostatin; cGMP; GEA 3175; Protein phosphorylation; Relaxation; SNAP (Persson, A.A. (521) 124)

Aging; Vasoactive agent; Coronary circulation; Endothelial function; Prostaglandin (Ishihata, A. (523) 119)

Carnosine; Hyperactivity; Nitric oxide synthase; Chick (Tomonaga, S. (524) 84)

Acute pulmonary embolism; L-arginine; Phosphodiesterase-5 inhibitor; Pulmonary hypertension; Sildenafil (Souza-Silva, A.R. (524) 126)

Parotid acinar amylase secretion; Endotoxin; Salivary gland inflammation; NOS2 induction (Barta, A. (524) 169)

Cerebral circulation; Signal transduction; Cyclic nucleotide (Baranov, D. (525) 112)

Vascular reactivity; Liver cirrhosis; Methoxamine; Bile duct ligation; Calcium; Thapsigargin (Atucha, N.M. (525) 117)

Nitric oxide donor

Human pulmonary artery; Human bronchiole; Soluble guanylyl cyclase; Large-conductance calcium-activated potassium channel (Elmedal, B. (516) 78)

YC-1; DETA/NO; Soluble guanylate cyclase activator; Myometrium (Demirkoprulu, N. (517) 240)

Nitric oxide (NO)

Hypothyroidism; Blood pressure; Adrenoceptor; Muscarinic receptor (Iwata, T. (507) 311)

Nitric oxide release

N^{ω} -hydroxy-L-arginine homologue; Hydroxylamine; Vasorelaxation; Electron paramagnetic resonance (Beranova, P. (516) 260)

Nitric oxide scavenger

Streptozotocin-induced diabetes; Oxidative stress; Cardiovascular dysfunction (Hutchings, S.R. (528) 132)

Nitric oxide store

N-Acetylcysteine; Nitric oxide; Organic nitrate; Superoxide anion; Tolerance (Sarr, M. (513) 119)

Nitric oxide synthase

Inflammatory bowel disease; Oxidative stress (Di Paola, R. (507) 281)

c-Fos; Pain; Plasticity; Spinal cord (Pilyavskii, A.I. (521) 70)

Carnosine; Hyperactivity; Nitric oxide; Chick (Tomonaga, S. (524) 84)

Nitric oxide/cGMP (guanosine 3', 5',-cyclic monophosphate)

PGG (1,2,3,4,6-penta-*O*-galloyl- β -D-glucose); Vasorelaxation; Cell adhesion (Kang, D.G. (524) 111)

Nitron

Neurodegeneration; Free radical scavenger; Ischaemia; Kainic acid; S34176 (Lockhart, B. (511) 127)

Nitrotyrosine

Superoxide anion; Superoxide dismutase; NADPH oxidase; Endothelial nitric oxide synthetase; Type II diabetes (Bitar, M.S. (511) 53)

Inducible nitric oxide synthase; Isoprostane; Cardiac contractility; Anti-oxidant (Cheng, X. (519) 118)

NMDA, (*N*-methyl-D-aspartate)

NAAG, (*N*-acetylaspartylglutamate); Neuroprotection; GCP II, (glutamate carboxypeptidase II); NAALADase, (*N*-acetylated- α -linked acidic dipeptidase); Dynorphin A (Long, J.B. (508) 115)

Bupivacaine; Levobupivacaine; Neurotoxicity; Mice mixed cultures of cortical neurons (Marganella, C. (518) 111)

NMDA (*N*-methyl-D-aspartate) receptor

Clomethiazole; Body temperature; Tolerance; Pharmacodynamic interaction; GABA_A (γ -Aminobutyric acid_A) receptor; 5-HT_{1A} (5-Hydroxytryptamine_{1A}) receptor; Hypothermia (Visser, S.A.G. (512) 139)

D-Amino acid oxidase; Morphine; D-Serine; Serine racemase (Yoshikawa, M. (525) 94)

NMDA receptor

Schizophrenia; Phencyclidine; Cognition; Clozapine; Haloperidol (Hashimoto, K. (519) 114)

Histamine; Histamine H₁ receptor; Tachykinin NK₁ receptor; Nociceptive response; Histidine decarboxylase gene knockout mouse (Yoshida, A. (522) 55)

Cortical slice; Epileptiform activity; Spermine; N¹-dansyl-spermine; DBA/2 mice (Kirby, B.P. (524) 53)

NMDA receptor antagonist

Epileptic seizure; Cerebral cortex; Development; (Rat) (Šlamberová, R. (516) 10)

Memantine; Neramexane; Morphine analgesia; Clonidine; Rat sciatic nerve; Allodynia; Experimental nerve injury (Malyshekin, A.A. (519) 80)

CHF3381; MAO-A inhibitor; Antinociceptive effect; Capsaicin (Bassani, F. (519) 231)

***N*-Methyl-D-aspartate receptor**

Aminooxyacetic acid; Microdialysis; D-Serine; Serine racemase (Hashimoto, A. (525) 91)

***N*-methyl-D-aspartate receptors**

Glycine_B site; Dopamine; Schizophrenia; Antipsychotic (Bennett, S. (527) 52)

***N*-methylnaltrexone**

Alvimopan; Opioid receptor; Opioid antagonist; Kinetics (Cassel, J.A. (520) 29)

NO (nitric oxide)

Ischemia; Reperfusion; Endothelin; U46619; Vasoconstriction (García-Villalón, A.L. (509) 165)

β -Adrenoceptor; β -Adrenoceptor antagonist; Hypertension; D/L-Nebivolol; Vasodilation (Sacco, G. (511) 167)

Brazilin; iNOS (inducible nitric oxide synthase); NF- κ B (nuclear factor- κ B); AP-1 (activator protein-1); Anti-inflammatory (Bae, I.-K. (513) 237)

Endothelial dysfunction; Hypertension; Bradykinin; Angiotensin-converting enzyme inhibitor; AT₁-receptor antagonist (De Gennaro Colonna, V. (516) 253)

NO (nitric oxide)

Voltage-sensitive Ca²⁺-channel; Spontaneously Hypertensive rat (Lewis, S.J. (528) 144)

NO (Nitric oxide)

Adrenoceptor; Cardiomyopathy; Cholestasis; Endogenous opioid peptide; Papillary muscle (Ebrahimi, F. (523) 93)

NO (Nitric oxide)

Captopril; Homocysteine; Endothelium-dependent relaxation; ADMA (Asymmetric dimethylarginine); (Rat) (Fu, Y.-F. (508) 167)

Nociceptin

Tilidine; Nortilidine; Opioid; Receptor (Thierry, C. (506) 205)

Orphanin FQ; *c-fos*; Behavioral sensitization; Nociceptin receptor; Orphanin FQ receptor (Okabe, C. (507) 57)

NBTI (nitrobenzylthioinosine); NOP (nociceptin opioid peptide); Paracetamol; Autoradiography; Adenosine uptake (Godfrey, L. (508) 99)

[Nphe¹, Arg¹⁴, Lys¹⁵]N/OFQ-NH₂; UFP-101; Orphanin FQ; NOP receptor; Potassium channel; Periaqueductal gray (Chiou, L.-C. (515) 47)

Nociceptin receptor

Nociceptin; Orphanin FQ; *c-fos*; Behavioral sensitization; Orphanin FQ receptor (Okabe, C. (507) 57)

Nociception

Analgesic; Neuropathic pain; Inflammatory pain; (Rat, Mouse) (Christoph, T. (507) 87)

Arthritis; Statin; Inflammation; Cytokine (Barsante, M.M. (516) 282)

Receptor; Surrogate ligand (Nothacker, H.-P. (519) 191)

Nociceptive response

Histamine; Histamine H₁ receptor; Tachykinin NK₁ receptor; NMDA receptor; Histidine decarboxylase gene knockout mouse (Yoshida, A. (522) 55)

Nociceptor

Pain; Dorsal root ganglion; Sodium channel; Deltamethrin (Dekker, L.V. (528) 52)

NO-cyclic GMP pathway

Lumiracoxib; K⁺ channel; Charybdotoxin; Apamin; Margatoxin; Serotonergic system; Opioid receptor (Lozano-Cuenca, J. (513) 81)

N/OFQ (nociceptin/orphanin FQ)

R-K, paracetamol; UFP-101; Analgesia; Hot plate test (Sandrini, M. (507) 43)

NOP receptor antagonist; JTC-801; Allodynia; Hyperalgesia (Tamai, H. (510) 223)

Nomifensine

Nicotine; Epibatidine; Dopamine; Nucleus accumbens; Caudate-putamen; In vivo microdialysis (Janhunen, S. (511) 143)

Non-acute pain

σ_1 Receptor; Formalin (Cendán, C.M. (511) 73)

Non-obese diabetic mice

Type 1 diabetes; Hyperalgesia; Kinin; Bradykinin B₁ receptor; desArg⁹-bradykinin; R-715; R-954 (Gabra, B.H. (514) 61)

Non-peptide

Bradykinin receptor antagonist; Guinea-pig ileum smooth muscle contraction; Chlorobenzhydryl piperazine (Kam, Y.L. (523) 143)

Nonpeptide antagonist

Binding site; G protein-coupled receptor; Site-directed mutagenesis; Tachykinin NK₂ receptor β isoform (Meini, S. (516) 104)

Non-reactivation effect

Pralidoxime derivative; Sedative effect; Soman poisoning; Anticonvulsant effect; Acetylcholine (Loke, W.-K. (521) 59)

NO-NSAIDs (nitric oxide-donating non-steroidal anti-inflammatory drugs)

COX (cyclooxygenase); GM-CSF (granulocyte macrophage-colony stimulating factor); PGE₂ (prostaglandin E₂); Synoviocytes (Zacharowski, P. (508) 7)

Non-steroidal anti-inflammatory drug

Adjuvant-induced arthritis; Cyclooxygenase-2; Celecoxib (Noguchi, M. (513) 229)

Nonsteroidal anti-inflammatory drug

New quinolone; Drug interaction; Convulsion; GABA_A receptor (Yoshino, T. (507) 69)

Nonthiazolidindione

FK614; Insulin sensitizer; Zucker fatty rat; PPAR (peroxisome proliferator-activated receptor) γ (Minoura, H. (519) 182)

NOP (nociceptin opioid peptide)

NBT1 (nitrobenzylthioinosine); Paracetamol; Autoradiography; Adenosine uptake; Nociceptin (Godfrey, L. (508) 99)

NOP receptor

[Nphe¹,Arg¹⁴,Lys¹⁵]N/OFQ-NH₂; UFP-101; Nociceptin; Orphanin FQ; Potassium channel; Periaqueductal gray (Chiou, L.-C. (515) 47)

NOP receptor antagonist

N/OFQ (nociceptin/orphanin FQ); JTC-801; Allodynia; Hyperalgesia (Tamai, H. (510) 223)

Noradrenaline

Fear conditioning; Fear-potentiated startle; Foot shock; Light-enhanced startle; Sensitization (Schweimer, J. (507) 117)

Bombesin; Thromboxane A₂; Prostaglandin E₂; Adrenal gland; Sympathetic nerve (Yokotani, K. (512) 29)

Microdialysis; Pain; Formalin test; Locus coeruleus (Sajedianfard, J. (512) 153)

Lithium carbonate; Milnacipran; In vivo microdialysis; Dopamine; Serotonin (Kitaichi, Y. (516) 219)

Firing activity; Antidepressant; 5-HT receptor; Idazoxan; α_2 -Adrenoceptor (Grandoso, L. (517) 51)

Milnacipran; In vivo microdialysis; Dopamine; Serotonin (Kitaichi, Y. (520) 37)

Norepinephrine

Peptide YY; Hypothalamus; Dopamine; Serotonin (Brunetti, L. (519) 48)

Norharmalin

β -carboline; Imidazoline I₂ receptor; [³H]2-BFI; [³H]Ro41-1049; [³H]Ro19-6327 (lazabemide); Morphine addiction; (Rat) brain and liver (Miralles, A. (518) 234)

Nortilidine

Tilidine; Opioid; Receptor; Nociceptin (Thierry, C. (506) 205)

NOS inhibitor

Nitric oxide; Halogenated volatile anaesthetic; EPR spectroscopy; Inducible and neuronal nitric oxide synthase; Lipopolysaccharide (Sjake, N. (513) 193)

NOS (NO synthase)

Free radical scavenger; Transient cerebral ischemia; Long-term potentiation; $\cdot$ OH (hydroxyl radical); Hippocampus (Otani, H. (512) 129)

NOS2 induction

Parotid acinar amylase secretion; Nitric oxide; Endotoxin; Salivary gland inflammation (Barta, A. (524) 169)

NPA ((-)-Propylnorapomorphine)

Dopamine D₄ receptor; JL-18; Guinea pig vas deferens (Morishita, H. (516) 145)

[Nphe¹,Arg¹⁴,Lys¹⁵]N/OFQ-NH₂

UFP-101; Nociceptin; Orphanin FQ; NOP receptor; Potassium channel; Periaqueductal gray (Chiou, L.-C. (515) 47)

N-type Ca²⁺ channel

α_2 -adrenoceptor; ω -conotoxin CVID; Dexmedetomidine; Mechanical hypersensitivity (Blake, D.W. (506) 221)

N-type calcium channel

Glucocorticoid receptor; Neuropathic pain; cDNA microarray (Takasaki, I. (524) 80)

Nuclear factor kappa B

Glycolysis; 6-phosphofructo-2-kinase/fructose-2,6-bisphosphatase; Fructose 2,6-bisphosphate; Pentose phosphate pathway; Aspirin; Apoptosis; Glutathione peroxidase; Glutathione (Cuesta, E. (517) 158)

Nuclear factor- κ B

Cyclooxygenase-2; Heat shock factor; Heat shock protein 72; Transcription factor (Ialenti, A. (509) 89)

Helenalin; Cell differentiation; Protein kinase C; Extracellular signal-regulated kinase (Kim, S.H. (511) 89)

Aromatic diamine compound; Inducible nitric oxide synthase; Anti-inflammation; Macrophages (Shin, H.-M. (521) 1)

Quercetin; Inducible nitric oxide synthase; Signal transducer and activator of transcription-1; Heme oxygenase-1; Microglia (Chen, J.-C. (521) 9)

Nuclear transcription factor kappa B

Parkinson's disease; Dopamine; Ethyl pyruvate; Oxidative stress; p53 (Wang, L.-Z. (508) 57)

Nucleus accumbens

Second-order schedules of reinforcement; Cocaine; Amygdala; Dopamine; Glutamate (Di Ciano, P. (526) 186)

Nucleus accumbens

Substance abuse; Cocaine; Serotonin; Dopamine; Microdialysis (Andrews, C.M. (508) 123)

Nicotine; Epibatidine; Nomifensine; Dopamine; Caudate-putamen; In vivo microdialysis (Janhunen, S. (511) 143)

CART; Cocaine; Corticosterone; Dopamine (Hunter, R.G. (517) 45)

Dopamine; Ethanol; C57BL/6 mouse; Voltammetry (Budygin, E.A. (523) 40)

Relapse; Addiction; Dopamine; Glutamate (Schmidt, H.D. (526) 65)

Drug addiction; Habit; Compulsion; Impulsivity; Sensitization; Tolerance; Allostatic; Prefrontal cortex; Orbitofrontal cortex; Dorsal striatum (Vander-schuren, L.J.M.J. (526) 77)

Morphine withdrawal; Δ FosB; Glutamate receptor; DNQX; MK-801; Ventral tegmental area (Wang, H.-L. (527) 94)

Nucleus accumbens core

Ionotropic glutamate receptor; Gene expression; GABA release (Jacobs, E.H. (511) 27)

Nucleus accumbens shell

Jaw movement; Retrosubthalamic field; Ventral pallidum; GABA_A receptor; Dopamine D1/D2 receptor stimulation; (Rat) (Uchida, T. (510) 39)

Nucleus tractus solitarius

Rilmidenine; Clonidine; α -Methylnorepinephrine; Rostral ventrolateral medulla; SHRs (spontaneously hypertensive rats); c-Jun (Wang, X. (514) 191)

Nutrigenetics

ABC transporter; Antiobesity drug; Cardiovascular disease; Cardiovascular drug; Drug-metabolizing enzyme; Drug target; Inflammation; Nutrigenomics; Obesity; Pharmacodynamic; Pharmacogenetic; Statin (Siest, G. (527) 1)

Nutrigenomics

ABC transporter; Antiobesity drug; Cardiovascular disease; Cardiovascular drug; Drug-metabolizing enzyme; Drug target; Inflammation; Nutrigenetics; Obesity; Pharmacodynamic; Pharmacogenetic; Statin (Siest, G. (527) 1)

NW-1029

Dorsal root ganglion; Sensory neuron; Tetrodotoxin-resistant sodium channel; Tetrodotoxin-sensitive sodium channel; Ralfinamide (Stummann, T.C. (510) 197)

OAT

Drug transport; Transporter; Diuretic; Bumetanide (Kobayashi, Y. (524) 44)

Obesity

C75; Fatty acid synthase; Appetite suppression (Rohrbach, K.W. (511) 31)

Overweight; Energy balance; Oleoyl-estrone; Dexfenfluramine; Sibutramine; Phentermine (Ferrer-Lorente, R. (513) 243)

ABC transporter; Antiobesity drug; Cardiovascular disease; Cardiovascular drug; Drug-metabolizing enzyme; Drug target; Inflammation; Nutrigenetics; Nutrigenomics; Pharmacodynamic; Pharmacogenetic; Statin (Siest, G. (527) 1)

Feeding; Drug abuse (Vicentic, A. (528) 188)

Ob/ob mice

Dipeptidyl peptidase-IV; Glucagon-like peptide-1; Insulin; Oral glucose tolerance test (Kim, K.-R. (518) 63)

Oedema

Histamine; Inflammation; Opioid receptor; Plasma extravasation (Romero, A. (511) 207)

Oestrogen receptor

Oestrogen receptor α ; Oestrogen receptor β ; PPT (4,4',4''-(4-propyl-[1H]-pyrazole-1,3,5-triyl) tris-phenol); DPN (2,3-bis(4-hydroxyphenyl)-propionitrile); Mouse aorta; Mouse mesenteric artery (Al Zubair, K. (513) 101)

Oestrogen receptor α

Oestrogen receptor β ; Oestrogen receptor; PPT (4,4',4''-(4-propyl-[1H]-pyrazole-1,3,5-triyl) tris-phenol); DPN (2,3-bis(4-hydroxyphenyl)-propionitrile); Mouse aorta; Mouse mesenteric artery (Al Zubair, K. (513) 101)

Oestrogen receptor β

Oestrogen receptor α ; Oestrogen receptor; PPT (4,4',4''-(4-propyl-[1H]-pyrazole-1,3,5-triyl) tris-phenol); DPN (2,3-bis(4-hydroxyphenyl)-propionitrile); Mouse aorta; Mouse mesenteric artery (Al Zubair, K. (513) 101)

6-OHDA (6-hydroxydopamine)

MDMA (3,4-Methylenedioxymethamphetamine); Serotonin; Dopamine; Endogenous opioid; Parkinson's disease (Lebsanft, H.B. (516) 34)

8-OH-DPAT (8-hydroxy-di-n-propylamino tetralin)

Short-term memory; 5-HT_{1A} receptor; Fluoxetine; Buspirone; WAY100635 (Fernández-Pérez, S. (522) 78)

·OH (hydroxyl radical)

Free radical scavenger; Transient cerebral ischemia; Long-term potentiation; NOS (NO synthase); Hippocampus (Otani, H. (512) 129)

Olanzapine

Clozapine; Thioridazine; Acetylcholine; Muscarinic receptors (Johnson, D.E. (506) 209)

Medial prefrontal cortex; Fluoxetine; Microdialysis; Osmotic minipump (Amargós-Bosch, M. (516) 235)

Oleic acid

Lung injury; Nitric oxide; Rho-kinase; Y-27632 (Köksel, O. (510) 135)

Oleoyl-estrone

Obesity; Overweight; Energy balance; Dexfenfluramine; Sibutramine; Phentermine (Ferrer-Lorente, R. (513) 243)

Olmesartan medoxomil

Angiotensin; Diabetic retinopathy; Electroretinogram; Oxygen induced retinopathy (Nakamura, H. (512) 239)

Hypoxic cor pulmonale; Angiotensin II-receptor blocker; Hypoxia; Remodeling; Collagen; Brain natriuretic peptide; TGF- β (Nakamoto, T. (528) 43)

Olomoucine

Roscovitine; Caspase; SH-SY5Y; Jurkat (Ribas, J. (524) 49)

Olopatadine hydrochloride

Histamine H₁ receptor antagonist; Scratching; Atopic dermatitis; Animal model (Tamura, T. (524) 149)

Olprinone

Gastroepiploic artery; Phosphodiesterase inhibitor; Diltiazem; Phosphodiesterase 3A; Phenylephrine (Adachi, H. (528) 137)

Omeprazole

Tegaserod; Small intestinal transit (Cowan, A. (517) 127)

H⁺/K⁺-ATPase; Rat atrium; Inotropy; Lansoprazole; SCH 28080 (Yenisehirli, A. (519) 259)

COX-2; Prostaglandin; Ulcer healing; Misoprostol; Celecoxib (Poonam, D. (519) 277)

Ontogeny

Colonic secretion; Ion transport development; Bethanechol; Histamine; 5-Hydroxytryptamine (Mrnka, L. (516) 268)

OPC-14523

Depression; Serotonin (Jordan, S. (517) 165)

Open space swim test

Cognition; Depression; Learning and memory; Mood; Protein kinase C (Sun, M.-K. (512) 43)

Open-field

Lithium chloride; Place conditioning; Biased conditioning apparatus; Nausea; Toxin; Long-Evans rat (Tenk, C.M. (515) 117)

Operant behaviour

Addiction; Analgesics; Antidepressant; Drug abuse; Opioid; Reinforcement (Magalas, Z. (528) 103)

Opiate

Analgesia (Pradhan, A.A.A. (506) 229)

Interferon alpha; Beta; Gamma; Immune; Endocrine; Sleep; Food; Temperature; Glucose sensitive; Naloxone (Dafny, N. (523) 1)

Pain; Formalin test; Hargreaves test; Quaternary naloxone; Post-treatment (Sevostianova, N. (525) 83)

Opiates

Alcohol; Cocaine; Drug addiction; Nicotine; Pharmacotherapy (Heidbreder, C. (526) 101)

Opioid

Tilidine; Nortilidine; Receptor; Nociceptin (Thierry, C. (506) 205)

Morphine withdrawal; Naltrexone; Sensitization; Fos; Guinea-pig (Mizutani, A. (509) 135)

Cholestasis; Mesenteric vascular bed; α_2 -Adrenoceptor; Clonidine; Nitric oxide (Borhani, A.A. (514) 183)

Cannabinoid CB₂ receptor; GW405833; Inflammatory pain; Neuropathic pain; Knockout (Whiteside, G.T. (528) 65)

Addiction; Analgesics; Antidepressant; Drug abuse; Operant behaviour; Reinforcement (Magalas, Z. (528) 103)

Adolescence; Mu-opioid receptor (White, D.A. (528) 119)

 κ -opioid agonist

Pruritus; MRL/*lpr* mouse; Scratching behavior (Umeuchi, H. (518) 133)

Opioid antagonist

Alvimopan; *N*-methylnaltrexone; Opioid receptor; Kinetics (Cassel, J.A. (520) 29)

Opioid hyperalgesia

Serotonin; 5-HT_{1A} receptor; Orthopedic surgery; Intra-operative pain; Postoperative pain (Kiss, I. (523) 29)

Opioid receptor

Oedema; Histamine; Inflammation; Plasma extravasation (Romero, A. (511) 207)

Lumiracoxib; K⁺ channel; NO-cyclic GMP pathway; Charybdotoxin; Amin; Margatoxin; Serotonergic system (Lozano-Cuenca, J. (513) 81)

Alvimopan; *N*-methylnaltrexone; Opioid antagonist; Kinetics (Cassel, J.A. (520) 29)

 δ -opioid receptor

Morphine; Receptor phosphorylation (Navratilova, E. (519) 212)

 κ -Opioid receptor

Oxycodone; Diabetes; Hyperalgesia; Antinociception (Nozaki, C. (524) 75)

JDTic; Morphine physical dependence; (Rat) (Carroll, F.I. (524) 89)

 δ -Opioid receptor agonist

SNC80; K⁺ channel; Peripheral antinociception; PGE₂ (Pacheco, D.F. (512) 23)

Opioid receptor agonist

Guanine nucleotide binding protein; G protein γ_2 subunit; Cannabinoid receptor agonist; Clonidine; Antinociception (Varga, E.V. (508) 93)

Opioid system

Cholestasis; Pruritus; [³⁵S]GTP γ S binding; (Rat) (Inan, S. (518) 182)

Opioid withdrawal

Morphine; Naltrexone; Dextromethorphan; Mecamylamine; Bupropion (Taraschenko, O.D. (513) 207)

Oral glucose tolerance test

Dipeptidyl peptidase-IV; Glucagon-like peptide-1; Insulin; *Ob/ob* mice (Kim, K.-R. (518) 63)

Oral hypoglycemic agent

Tolbutamide; Nitric oxide; Microsphere; Regional blood flow; Otsuka Long-Evans Tokushima Fatty rat (Iwase, M. (518) 243)

Oral tolerance

Cry j 2; Pollinosis; Immunoprophylaxis; T cell epitope (Murasugi, T. (510) 143)

Orbitofrontal cortex

Drug addiction; Habit; Compulsion; Impulsivity; Sensitization; Tolerance; Allostasis; Prefrontal cortex; Dorsal striatum; Nucleus accumbens (Vander-schuren, L.J.M.J. (526) 77)

Organ culture

Endothelium-dependent relaxation; Dexamethasone (Murata, T. (515) 134)

Organ injury

Septic shock; Endothelin; Bosentan; Survival (Iskit, A.B. (506) 83)

Organic anion transporter

Prostaglandin; Renal cortical slice; Renal proximal tubule (Nagai, J. (525) 128)

Organic nitrate

N-Acetylcysteine; Nitric oxide; Nitric oxide store; Superoxide anion; Tolerance (Sarr, M. (513) 119)

Organophosphate

Acetylcholinesterase; Anticonvulsant; Epileptiform activity; Hippocampal slice; Soman (Harrison, P.K. (518) 123)

Orogastric administration

Anti-ulcer drug; Astaxanthin; Gastric antral ulceration; *Xanthophyllomyces dendrorhous* (Kim, J.-H. (514) 53)

Orphanin FQ

Nociceptin; *c-fos*; Behavioral sensitization; Nociceptin receptor; Orphanin FQ receptor (Okabe, C. (507) 57)

[Nphe¹, Arg¹⁴, Lys¹⁵]N/OFQ-NH₂; UFP-101; Nociceptin; NOP receptor; Potassium channel; Periaqueductal gray (Chiou, L.-C. (515) 47)

Orphanin FQ receptor

Nociceptin; Orphanin FQ; *c-fos*; Behavioral sensitization; Nociceptin receptor (Okabe, C. (507) 57)

Orthopedic surgery

Serotonin; 5-HT_{1A} receptor; Intra-operative pain; Postoperative pain; Opioid hyperalgesia (Kiss, I. (523) 29)

Osmotic minipump

Medial prefrontal cortex; Fluoxetine; Olanzapine; Microdialysis (Amargós-Bosch, M. (516) 235)

Intracerebroventricular; Morphine pellet; Chronic; Naloxone; Withdrawal; Tolerance; (Mice) (Lenard, N.R. (527) 71)

Osteoclast

Matrix metalloproteinase; Arthritis, adjuvant induced; Bone destruction (Ishikawa, T. (508) 239)

Otsuka Long–Evans Tokushima Fatty rat

Oral hypoglycemic agent; Tolbutamide; Nitric oxide; Microsphere; Regional blood flow (Iwase, M. (518) 243)

Ouabain

Renal hypertension; Contractile response; Membrane depolarization; Endothelium (Molin, J.C. (522) 94)

Outflow facility

2-Alkynyladenosine derivative; Intraocular pressure; Adenosine A_{2A} receptor; K⁺ channel (Konno, T. (518) 203)

Ovalbumin

Allergic airway response; Capsazepine; TRPV1 (transient receptor potential vanilloid 1) (van den Worm, E. (518) 77)

Ovarian hormone

Insulin resistance; The luteinizing hormone receptor (Tamura, K. (513) 151)

Ovariectomy

17- β -estradiol; Cardiomyopathy; Oxidative stress; Adriamycin (Muñoz-Castañeda, J.R. (523) 86)

Ovary

Angiogenesis; Eicosanoid (Sakurai, T. (516) 158)

Overweight

Obesity; Energy balance; Oleoyl-estrone; Dexfenfluramine; Sibutramine; Phentermine (Ferrer-Lorente, R. (513) 243)

Oxcarbazepine

Gabapentin; Electroshock maximal; Isobolographic analysis; Pharmacodynamic interaction; Seizure (Luszczki, J.J. (515) 54)

Oxidative injury

Baicalin; Iron overload; Liver (Zhao, Y. (509) 195)

Oxidative stress

Inflammatory bowel disease; Nitric oxide synthase (Di Paola, R. (507) 281)

Parkinson's disease; Dopamine; Ethyl pyruvate; Nuclear transcription factor kappa B; p53 (Wang, L.-Z. (508) 57)

Fructose; *N*-acetylcysteine; Insulin resistance; Hypertension (Song, D. (508) 205)

Celecoxib; Microparticle; Retinal delivery; Diabetes (Ayalasomayajula, S.P. (511) 191)

Hypertension; Gene expression; Left ventricular hypertrophy; Energy metabolism (Chon, H. (513) 21)

Huperzine A; Nerve growth factor; MAP (mitogen-activated protein) kinase; TrkA (tyrosine kinase A) receptor (Tang, L.-L. (519) 9)

17- β -estradiol; Cardiomyopathy; Ovariectomy; Adriamycin (Muñoz-Castañeda, J.R. (523) 86)

Ozone; Diabetes (and its complications); Diabetic foot; Antioxidant defense system (Martínez-Sánchez, G. (523) 151)

Streptozotocin-induced diabetes; Nitric oxide scavenger; Cardiovascular dysfunction (Hutchings, S.R. (528) 132)

Oxime

Acetylcholine; HI-6; HLö-7; Pralidoxime; Toxogonin; Soman (Øydvín, O.K. (516) 227)

Oxotremorine-M

Caffeine; Turning behavior; Striatum; Adenosine/acetylcholine interaction (Núñez-Taltavull, J.F. (506) 71)

Oxycodone

Diabetes; κ -Opioid receptor; Hyperalgesia; Antinociception (Nozaki, C. (524) 75)

Oxygen induced retinopathy

Angiotensin; Diabetic retinopathy; Electroretinogram; Olmesartan medox-omil (Nakamura, H. (512) 239)

Oxygen radical

Stroke; Neuroprotection; Apoptosis; Thiobarbituric acid reacting substance (Feng, Y. (507) 77)

Diabetes mellitus; Endothelial dysfunction; NAD(P)H oxidase; Beta 1-adrenoceptor antagonist; Angiotensin AT₁ receptor antagonist (Dorenkamp, M. (520) 179)

Oxygen–glucose deprivation

Cyclooxygenase-2; Prostaglandin E₂; Preconditioning; Ca²⁺; Primary cortical cultures (Gendron, T.F. (517) 17)

Oxytocin

Atosiban; Barusiban; Carbetocin; G-protein coupled receptors (Gimpl, G. (510) 9)

Ozone

Diabetes (and its complications); Diabetic foot; Oxidative stress; Antioxidant defense system (Martínez-Sánchez, G. (523) 151)

P1 receptor

Skeletal muscle, frog; P2 receptor; Temperature dependency (Ziganshin, A.U. (509) 187)

P2 receptor

Skeletal muscle, frog; P1 receptor; Temperature dependency (Ziganshin, A.U. (509) 187)

p21^{WAF1/CIP1}

Manganese(II); Apoptosis; JNK (Jun N-terminal kinase); p38 MAPK (mitogen-activated protein kinase); c-Jun; p53 (Suzuki, T. (525) 48)

P2X receptor

Voltage dependence; Gate; Kinetics; Ligand affinity (Nakazawa, K. (508) 23)

ATP; P2Y receptor; Mouse stomach; Contraction; Relaxation (Mulè, F. (513) 135)

Atomic force microscopy; Protein structure; ATP (Nakazawa, K. (518) 107)

Cannabinoid CB₁ receptor; Sympathetic nervous system; NESS 0327 (Tambaro, S. (525) 150)

P2Y receptor

ATP; P2X receptor; Mouse stomach; Contraction; Relaxation (Mulè, F. (513) 135)

p38

Tumor necrosis factor- α ; Interleukin-1; Adjuvant-induced arthritis; Collagen-induced arthritis (Wada, Y. (506) 285)

p38 MAPK (mitogen-activated protein kinase)

Manganese(II); Apoptosis; JNK (Jun N-terminal kinase); c-Jun; p53; p21^{WAF1/CIP1} (Suzuki, T. (525) 48)

p38 mitogen-activated protein kinase

YC-1; Mesangial cells; Cyclin D1; Proliferation (Chiang, W.-C. (517) 1)

p42/44 MAPK

Ethanol; Acetaldehyde; Hepatocyte; JNK; Apoptosis (Lee, Y.J. (508) 31)

p53

Parkinson's disease; Dopamine; Ethyl pyruvate; Oxidative stress; Nuclear transcription factor kappa B (Wang, L.-Z. (508) 57)

Embryonic stem cells; Directional differentiation; Embryoid body; Cardiomyocyte; Icarin; Sarcomere; Cell cycle; Apoptosis (Zhu, D. (514) 99)

Manganese(II); Apoptosis; JNK (Jun N-terminal kinase); p38 MAPK (mitogen-activated protein kinase); c-Jun; p21^{WAF1/CIP1} (Suzuki, T. (525) 48)

PACAP-27 (pituitary adenylate cyclase activating peptide)

Phospholipase C; Inositol 1,4,5-triphosphate; Mouse ileum; Muscular inhibition (Zizzo, M.G. (521) 133)

Paclitaxel

Sirolimus; Restenosis; Cell proliferation; Cell cycle (Parry, T.J. (524) 19)

Paeoniflorin

L-type Ca²⁺ current; NG108-15 cells (Tsai, T.-Y. (523) 16)

Pain

Microdialysis; Formalin test; Locus coeruleus; Noradrenaline (Sajedianfard, J. (512) 153)

Sensory neuron; Electrophysiology (Gerevich, Z. (521) 34)

c-Fos; Nitric oxide synthase; Plasticity; Spinal cord (Pilyavskii, A.I. (521) 70)

Opiate; Formalin test; Hargreaves test; Quaternary naloxone; Post-treatment (Sevostianova, N. (525) 83)

Dorsal root ganglion; Nociceptor; Sodium channel; Deltamethrin (Dekker, L.V. (528) 52)

p-Aminohippurate

Urinary excretion; Phenolsulfonphthalein; Anion exchanger; Brush-border membrane (Itagaki, S. (518) 83)

Pancreatic islet

KCP256; Sulfonylurea; K_{ATP} channel; Insulin secretion; MIN6 cell (Mori, K. (528) 176)

Pancreatitis

5-HT_{2A} receptor; Serotonin; R-102444; R-96544 (Ogawa, T. (521) 156)

Panic disorder

Dorsal periaqueductal grey; GABA; Benzodiazepine; Elevated T-maze; Generalised anxiety (Bueno, C.H. (516) 239)

Papillary muscle

Adrenoceptor; Cardiomyopathy; Cholestasis; Endogenous opioid peptide; NO (Nitric oxide) (Ebrahimi, F. (523) 93)

Paracetamol

NBTI (nitrobenzylthioinosine); NOP (nociceptin opioid peptide); Autoradiography; Adenosine uptake; Nociceptin (Godfrey, L. (508) 99)

Paraventricular nucleus

ACTH (adrenocorticotrophic hormone); Corticosterone; GABA; Stress; L-838,417; Diazepam; Zolpidem; Zopiclone; (Mouse) (Mikkelsen, J.D. (519) 223)

Pargyline/L-tryptophan

Gastric pentadecapeptide BPC 157; Serotonin syndrome; 5-HT_{2A} receptor antagonism; (Rats) (Boban Blagaic, A. (512) 173)

Parkinson's disease

Dopamine; Ethyl pyruvate; Oxidative stress; Nuclear transcription factor kappa B; p53 (Wang, L.-Z. (508) 57)

Adenosine A_{2A} antagonist; Dopamine; 6-hydroxydopamine; L-DOPA (L-dihydroxy-phenylalanine) (Pinna, A. (512) 157)

MDMA (3,4-Methylenedioxymethamphetamine); 6-OHDA (6-hydroxy-dopamine); Serotonin; Dopamine; Endogenous opioid (Lebsanft, H.B. (516) 34)

Parotid acinar amylase secretion

Nitric oxide; Endotoxin; Salivary gland inflammation; NOS2 induction (Barta, A. (524) 169)

Paroxetine

Serotonin (5-hydroxytryptamine, 5-HT); Microdialysis; Frontal cortex; *N*-[2-[4-(2-methoxyphenyl)-1-piperazinyl]ethyl]-*N*-(pyridinyl)cyclohexanecarboxamide (WAY-100635); 5-HT_{1A} receptor; 8-Hydroxy-2-(di-*n*-propylamino)tetralin (8-OH-DPAT) (Hughes, Z.A. (510) 49)

PARP-1

GPI 15427; GPI 16539; Myeloperoxidase; Colitis; Ischemia/Reperfusion (Di Paola, R. (527) 163)

Partial agonist

Aripiprazole; Antipsychotic; Dopamine D2 receptor; Receptor density; Schizophrenia (Tadori, Y. (515) 10)

Passive avoidance

FK962; Memory; Somatostatin; Water maze; Whole-cell patch-clamp (Tokita, K. (527) 111)

Passive avoidance test

Baicalein; Melatonin; Anti-amnesic effect; β -Amyloid peptide-(25–35) (Wang, S.-Y. (506) 55)

Passive cutaneous anaphylaxis titer

Experimental allergic rhinitis; Sensitivity of histamine; Mometasone; Chlorpheniramine (Tsumuro, T. (524) 155)

Patch clamp

Acetylcholine; Neurotransmitter; K_{ATP} channel; Smooth muscle cell; Stable transfection (Hanna, S.T. (515) 34)

Patch-clamp

Human AMPA-type receptor; Desensitization; Propofol; Fast solution exchange (Krampfl, K. (511) 1)

PC12 cell

1-Methyl-4-phenylpyridinium; Glibenclamide; Mitochondrial membrane permeability; Cell injury (Lee, C.S. (527) 23)

p-Chlorophenylalanine

5-HT_{1B} receptor ligand; Idazoxan; Sulpiride; Forced swimming test in mice (Tatarczyńska, E. (516) 46)

PD 81,723

Internalization; Allosteric modulation; SCH-202676; Human adenosine A₁ receptor; YFP (Klaasse, E.C. (522) 1)

Pentobarbital

Tetrandrine; Sleep; 5-Hydroxytryptophan; Serotonergic system (Zhao, X. (506) 101)

Halothane; Sematilide; Ventricular repolarization (Takahara, A. (507) 169)

Proton; GABA; GABA_A receptor; *Xenopus* oocyte (Wang, M.-D. (528) 1)

Pentose phosphate pathway

Glycolysis; 6-phosphofructo-2-kinase/fructose-2,6-bisphosphatase; Fructose 2,6-bisphosphate; Aspirin; Apoptosis; Glutathione peroxidase; Glutathione; Nuclear factor kappa B (Cuesta, E. (517) 158)

Pentoxifylline

Y-40138; TNF- α ; IFN- γ ; IL-4; Chemokine; Anti-TNF- α antibody; Concanavalin A; Hepatitis (Fukuda, T. (523) 137)

Pentylene-tetrazol

Ethosuximide; T-type Ca²⁺ channel; Central sensitization; Capsaicin; Formalin (Barton, M.E. (521) 79)

Pentylene-tetrazole

Grooming behaviour; Mice; Anxiety; GABA; Diazepam (Kalueff, A.V. (508) 147)

Peptide hormone

Gastric emptying; Intestinal transit; Enteric nervous system (Depoortere, I. (515) 160)

Peptide hormone-release

Islets of Langerhans; Cholinergic; Gene inactivation; Toxin-resistant current; R-type Ca²⁺ channel (Pereverzev, A. (511) 65)

Peptide YY

Hypothalamus; Dopamine; Norepinephrine; Serotonin (Brunetti, L. (519) 48)

Pergolide

Cabergoline; Bromocriptine; Lisuride; Terguride; Valvular heart disease; 5-HT_{2B} receptor agonism (Jähnichen, S. (513) 225)

Periaqueductal gray

[Nphe¹,Arg¹⁴,Lys¹⁵]N/OFQ-NH₂; UFP-101; Nociceptin; Orphanin FQ; NOP receptor; Potassium channel (Chiou, L.-C. (515) 47)

Periodontal disease

Free radical; Alveolar bone loss; Reactive oxygen specie (Di Paola, R. (516) 151)

Peripheral antinociception

SNC80; δ -Opioid receptor agonist; K⁺ channel; PGE₂ (Pacheco, D.F. (512) 23)

Peripheral inflammation

Antinociception; Tachykinin NK₁ receptor antagonist; Substance P; Spinal cord; 4 β -Phorbol-12-myristate-13-acetate (Tsuchiya, M. (507) 29)

Peripheral processing

Sildenafil; Cyclic GMP; Protein kinase G; K⁺ channel (Ambriz-Tututi, M. (512) 121)

Peristalsis

Ileum; Nitrergic neuron; Nitric oxide; Propelled liquid volume; (Hamster) (Shiina, T. (517) 120)

Perivascular fibrosis

Rho-kinase; Angiotensin II; Cardiac hypertrophy; Cardiac dysfunction; Apolipoprotein E knockout mice (Wang, Y.-X. (512) 215)

Permeability transition

Apoptosis; Neuroprotection; Mitochondrion (Fuks, B. (519) 24)

Permeability transition pore

Resveratrol; Rat liver; Mitochondria; Antioxidant; Reactive oxygen species; Ischemia–reperfusion (Plin, C. (528) 162)

Peroxisome proliferator-activated receptor γ

Ciglitazone; Cycteinyll-leukotrienes; Mast cell; Independence (Okuyama, K. (521) 21)

Peroxyinitrite

β -adrenoceptors; Redox; Nitration; Vasodilation; Heart rate; (Rat) (Lewis, S.J. (518) 187)

Personality trait

Aggression; Antidepressant; Negative affect; Impulse regulation; Dominance; Affiliative behaviour (Bond, A.J. (526) 218)

Pertussis toxin

Receptor signaling; Adenylyl cyclase; G-protein; Ligand attachment; Ligand dissociation (Sah, R. (525) 60)

PGE₂

SNC80; δ -Opioid receptor agonist; K⁺ channel; Peripheral antinociception (Pacheco, D.F. (512) 23)

PGE₂ (prostaglandin E₂)

COX (cyclooxygenase); GM-CSF (granulocyte macrophage-colony stimulating factor); NO-NSAIDs (nitric oxide-donating non-steroidal anti-inflammatory drugs); Synoviocytes (Zacharowski, P. (508) 7)

PGG (1,2,3,4,6-penta-O-galloyl- β -D-glucose)

Vasorelaxation; Nitric oxide/cGMP (guanosine 3', 5',-cyclic monophosphate); Cell adhesion (Kang, D.G. (524) 111)

P-glycoprotein

Tumor necrosis factor- α (TNF- α); Cytochrome P450 (CYP); Endotoxin; TNF- α knockout mice (Miyoshi, M. (507) 229)

Endotoxin; CYP3A2; CYP2C11; Antipyrine clearance; (Rat) (Ueyama, J. (510) 127)

pH

Acidosis; ATP-sensitive potassium channel; Human internal mammary artery; Vascular smooth muscle (Rohra, D.K. (514) 175)

IL-4; IL-6; Asthma; Airway inflammation (Carpagnano, G.E. (519) 175)

Pharmacodynamic

ABC transporter; Antiobesity drug; Cardiovascular disease; Cardiovascular drug; Drug-metabolizing enzyme; Drug target; Inflammation; Nutrigenetics; Nutrigenomics; Obesity; Pharmacogenetic; Statin (Siest, G. (527) 1)

Pharmacodynamic interaction

Clomethiazole; Body temperature; Tolerance; GABA_A (γ -Aminobutyric acid_A) receptor; 5-HT_{1A} (5-Hydroxytryptamine_{1A}) receptor; NMDA (N-methyl-D-aspartate) receptor; Hypothermia (Visser, S.A.G. (512) 139)

Oxcarbazepine; Gabapentin; Electroshock maximal; Isobolographic analysis; Seizure (Luszczki, J.J. (515) 54)

Pharmacodynamics

Chemokine CCR5 receptor; Human CCR5 transgenic mouse; Receptor occupancy (Saita, Y. (518) 227)

Pharmacogenetic

ABC transporter; Antiobesity drug; Cardiovascular disease; Cardiovascular drug; Drug-metabolizing enzyme; Drug target; Inflammation; Nutrigenetics; Nutrigenomics; Obesity; Pharmacodynamic; Statin (Siest, G. (527) 1)

Pharmacokinetics

Chronic constriction injury model; 2'-deoxyribose-N⁶-cyclopentyl-adenosine; 8-methylamino-N⁶-cyclopentyl-adenosine; Mechanical paw pressure threshold; Population pharmacokinetic/pharmacodynamic analysis (Schad-delee, M.P. (514) 131)

Myocardial infarction; Angiotensin-converting enzyme inhibition; Diuretic (Westendorp, B. (527) 141)

Pharmacology

Aggression; Sexual behaviour; Neural mechanism; c-Fos; Serotonin; Male (Rat) (Veening, J.G. (526) 226)

Pharmacotherapy

Alcohol; Cocaine; Drug addiction; Nicotine; Opiates (Heidbreder, C. (526) 101)

Alcohol; Relapse prevention; Addiction; Treatment (Kiefer, F. (526) 163)

Phencyclidine

Sheep Purkinje fibre; 'Ecstasy'; Cocaine; Cocaethylene; Δ^9 -tetrahydrocannabinol; (+)-methamphetamine; Morphine (Sheridan, R.D. (511) 99)

Schizophrenia; NMDA receptor; Cognition; Clozapine; Haloperidol (Hashimoto, K. (519) 114)

Phenolsulfonphthalein

Urinary excretion; p-Aminohippurate; Anion exchanger; Brush-border membrane (Itagaki, S. (518) 83)

Phentermine

Obesity; Overweight; Energy balance; Oleoyl-estrone; Dexfenfluramine; Sibutramine (Ferrer-Lorente, R. (513) 243)

Phentolamine

Neuropathic pain; Cold allodynia; Prazosin; Yohimbine; α -adrenoreceptor (Kim, S.K. (523) 64)

Phenylephrine

Gastroepiploic artery; Phosphodiesterase inhibitor; Olprinone; Diltiazem; Phosphodiesterase 3A (Adachi, H. (528) 137)

Phenylethyl isothiocyanate

Apoptosis; Antioxidant; Caspase-3 inhibitor; PLC/PRF/5 cell (Wu, S.-J. (518) 96)

Phorbol ester

5-Lipoxygenase; Histamine; Inflammation; Extravasation (Giannaras, A. (506) 265)

Protein kinase C; Calcium; Intestine; Cell damage (Tepperman, B.L. (518) 1)

4 β -Phorbol-12-myristate-13-acetate

Antinociception; Tachykinin NK₁ receptor antagonist; Substance P; Spinal cord; Peripheral inflammation (Tsuchiya, M. (507) 29)

Phosphatidylinositol 3-kinase

α_1 -adrenoceptor; Receptor phosphorylation; Protein kinase C; Protein phosphatase; Desensitization (Alcántara-Hernández, R. (525) 18)

Phosphodiesterase 3

Cyclic AMP; Trequinsin; Formalin test (Torres-López, J.E. (519) 75)

Phosphodiesterase 3A

Gastroepiploic artery; Phosphodiesterase inhibitor; Olprinone; Diltiazem; Phenylephrine (Adachi, H. (528) 137)

Phosphodiesterase 5

Sildenafil; Cerebral artery; Human; Migraine (Kruuse, C. (521) 105)

Phosphodiesterase inhibitor

Glucagon; Dobutamide; Cilostamide; Rat ventricle; Cardiac contractility; cAMP (Juan-Fita, M.J. (512) 207)

Adrenergic downregulation; cAMP; Myocardial contractility (Osadchii, O. (514) 201)

Gastroepiploic artery; Olprinone; Diltiazem; Phosphodiesterase 3A; Phenylephrine (Adachi, H. (528) 137)

Phosphodiesterase-5 inhibitor

Acute pulmonary embolism; L-arginine; Nitric oxide; Pulmonary hypertension; Sildenafil (Souza-Silva, A.R. (524) 126)

Phosphodiesterases

Adenosine; Calcium; cAMP; cGMP; GEA 3175; Milrinone; Nitric oxide; Platelets (Asplund Persson, A. (517) 149)

6-phosphofructo-2-kinase/fructose-2,6-bisphosphatase

Glycolysis; Fructose 2,6-bisphosphate; Pentose phosphate pathway; Aspirin; Apoptosis; Glutathione peroxidase; Glutathione; Nuclear factor kappa B (Cuesta, E. (517) 158)

Phospholipase C

Brain; Bombesin BB₂ receptor; Diacylglycerol lipase; Sympatho-adrenomedullary outflow (Shimizu, T. (514) 151)

PACAP-27 (pituitary adenylate cyclase activating peptide); Inositol 1,4,5-trisphosphate; Mouse ileum; Muscular inhibition (Zizzo, M.G. (521) 133)

Phosphorylation

Alzheimer disease; Calyculin A; Tau; Melatonin (Li, X.-C. (510) 25)

Nicotine; Desensitization; Acetylcholine; Nicotinic receptor; Smoking (Marszałec, W. (514) 83)

p-Hydroxyacetophenone

Acetylsalicylic acid; Alcohol dehydrogenase (Negoro, M. (523) 25)

Physical dependence

Triazolam; Flumazenil; Bretazenil; Benzodiazepine; Precipitated withdrawal; (Baboon) (Weerts, E.M. (519) 103)

Morphine; Naltrexone; Medial habenula; Interpeduncular nucleus; Locus coeruleus (Panchal, V. (525) 98)

Physostigmine

Transdermal patch; Procyclidine; Soman; Mortality; Brain injury; Incapacitation (Kim, W.-S. (525) 135)

Phytic acid

Leukocyte; Neutrophil; Intimal hyperplasia; Selectin (Shimazawa, M. (520) 156)

Pi absorption

JTP-59557; Type IIb Na/Pi cotransporter; Intestinal Na⁺-dependent Pi transport (Matsuo, A. (517) 111)

(Pig)

Nitrogenic neurotransmission; Fundic compliance; Neuronal nitric oxide synthase; ARL 17477 (Lefebvre, R.A. (525) 143)

Pig brain

Imidazoline binding sites; Monoamine oxidase (Anderson, N.J. (519) 68)

Pindolol

Unpredictable chronic mild stress; Tramadol; Desipramine; Yohimbine (Yalcin, I. (514) 165)

Pituitocytes

Interferon-γ; Interleukin-1β; Interleukin-6; Nitric oxide; Neural lobe; Neurohypophysis (Thorn, A. (519) 168)

Pituitary neural lobe

Calcium; Fura-2; Long-chain fatty alcohol; Primary sensory neuron; Trimethyl-cyclohexenonic alcohol (Jover, E. (516) 197)

Place aversion

Morphine; Naloxone; α₇ Nicotinic acetylcholine receptor subtype; α₄β₂ Nicotinic acetylcholine receptor subtype (Motoshima, S. (519) 91)

Place conditioning

5-HT_{2C} receptor; Locomotor activity; (Rat) (Mosher, T. (515) 107)

Lithium chloride; Biased conditioning apparatus; Nausea; Toxin; Long-Evans rat; Open-field (Tenk, C.M. (515) 117)

Plant alkaloid

Sampangine; Apoptosis; Reactive oxygen species; Mitochondria; Caspase (Kluza, J. (525) 32)

Plasma extravasation

Oedema; Histamine; Inflammation; Opioid receptor (Romero, A. (511) 207)

Type 1 diabetes; Vascular permeability; Bradykinin B₁ receptor (Lawson, S.R. (514) 69)

Plasma membrane (Ca²⁺–Mg²⁺)ATPase

Denervation; Vas deferens; Sarco(endo)plasmic reticulum (Ca²⁺–Mg²⁺)ATPase; Ryanodine receptor; Calcium (Quintas, L.E.M. (525) 54)

Plasticity

c-Fos; Nitric oxide synthase; Pain; Spinal cord (Pilyavskii, A.I. (521) 70)

Serotonin transporter; Genetics; Alcohol dependence; Addiction; Environment; Imaging (Lesch, K.-P. (526) 113)

Platelet

Neutrophil; YC-1; P-selectin; Cathepsin G; fMLP; Whole blood (Liao, C.-H. (519) 158)

Leukocyte; L-selectin; P-selectin; Restenosis; Sulfatide; Thrombosis (Shimazawa, M. (520) 118)

Platelet-derived growth factor

Astrapterocarpan; *Astragalus membranaceus*; Vascular smooth muscle cell; Cardiovascular disease (Ohkawara, S. (525) 41)

Platelets

Adenosine; Calcium; cAMP; cGMP; GEA 3175; Milrinone; Nitric oxide; Phosphodiesterases (Asplund Persson, A. (517) 149)

Platinum

Astrocytoma; Cancer; Apoptosis (Marković, M. (517) 28)

Plaunotol

COX-2; Gastric epithelial cells; NF- κ B; CRE (Fu, H.y. (524) 38)

PLC/PRF/5 cell

Phenylethyl isothiocyanate; Apoptosis; Antioxidant; Caspase-3 inhibitor (Wu, S.-J. (518) 96)

Plus maze

Anxiety; Group I mGlu receptor; Fear potentiated startle; Contextual fear conditioning; Geller–Seifter test (Pietraszek, M. (514) 25)

Pollinosis

Cry j 2; Oral tolerance; Immunoprophylaxis; T cell epitope (Murasugi, T. (510) 143)

Polymorphism

Multidrug resistance; Methotrexate; Dexamethasone (Pawlik, A. (528) 27)

Polymorphous ventricular tachycardia

Trazodone; QT-interval; hERG; Torsade de pointes (Tarantino, P. (510) 75)

Polyphenol

Spanish red wine; Composition; Vasodilation; Rat aorta; Endothelium (Padilla, E. (517) 84)

Population pharmacokinetic/pharmacodynamic analysis

Chronic constriction injury model; 2'-deoxyribose- N^6 -cyclopentyl-adenosine; 8-methylamino- N^6 -cyclopentyl-adenosine; Mechanical paw pressure threshold; Pharmacokinetics (Schaddelee, M.P. (514) 131)

Positive allosteric modulation

GABA_B receptor; CGP7930; GS39783; Baclofen; Alcohol drinking behavior; Sardinian alcohol-preferring (sP) (Rat) (Orrù, A. (525) 105)

Postoperative pain

Serotonin; 5-HT_{1A} receptor; Orthopedic surgery; Intra-operative pain; Opioid hyperalgesia (Kiss, I. (523) 29)

Cannabinoid; Tactile allodynia (LaBuda, C.J. (527) 172)

Postprandial hypertriglyceridemia

Diabetic gastroparesis; *Rheum palmatum* L.; Domperidone; Atropine (Xie, W. (510) 113)

Post-treatment

Pain; Opiate; Formalin test; Hargreaves test; Quaternary naloxone (Sevostianova, N. (525) 83)

Potassium channel

KR-31378; Protein kinase C- ϵ ; Cardiac cell; Hypoxia (Moon, C.-H. (506) 27)

[Nphe¹,Arg¹⁴,Lys¹⁵]N/OFG-NH₂; UFP-101; Nociceptin; Orphanin FQ; NOP receptor; Periaqueductal gray (Chiou, L.-C. (515) 47)

Acetylcholine; Nitric oxide; Cyclic GMP; Prostanoid; Endothelial muscarinic receptor; Horse dorsal penile vein (Martínez, A.C. (515) 150)

PPAR (peroxisome proliferator-activated receptor) γ

FK614; Nonthiazolidindione; Insulin sensitizer; Zucker fatty rat (Minoura, H. (519) 182)

PPAR γ

Cardiac; Hypertrophy; Diabetes; Troglitazone; Protein kinase C (Bell, D. (508) 69)

Thiazolidinedione; MCP-1; CCR2; Macrophage; Insulin resistance (Tanaka, T. (508) 255)

Anandamide; 3T3-L1; Adipocyte (Bouaboula, M. (517) 174)

PPT (4,4',4''-(4-propyl-[1H]-pyrazole-1,3,5-triyl) tris-phenol)

Oestrogen receptor α ; Oestrogen receptor β ; Oestrogen receptor; DPN (2,3-bis(4-hydroxyphenyl)-propionitrile); Mouse aorta; Mouse mesenteric artery (Al Zubair, K. (513) 101)

Pralidoxime

Acetylcholine; HI-6; HLö-7; Oxime; Toxogonin; Soman (Øydvin, O.K. (516) 227)

Pralidoxime derivative

Sedative effect; Soman poisoning; Anticonvulsant effect; Acetylcholine; Non-reactivation effect (Loke, W.-K. (521) 59)

Prazosin

Neuropathic pain; Cold allodynia; Phentolamine; Yohimbine; α -adrenoreceptor (Kim, S.K. (523) 64)

Pre- and postsynaptic GABA_B receptor

Neocortex; Baclofen; 3-Chloro,4-methoxyfendiline; (Rat) (Ong, J. (507) 35)

Precipitated withdrawal

Triazolam; Flumazenil; Bretazenil; Benzodiazepine; Physical dependence; (Baboon) (Weerts, E.M. (519) 103)

Preconditioning

Gliclazide; Glibenclamide; Human myocardium (Loubani, M. (515) 142)

Cyclooxygenase-2; Prostaglandin E₂; Oxygen–glucose deprivation; Ca²⁺; Primary cortical cultures (Gendron, T.F. (517) 17)

Arrhythmia; Fasudil; Infarct size; Rho-kinase (Demiryürek, Ş. (527) 129)

Prefrontal cortex

Addiction; Dependence; Behavioral economics; Choice; Dopamine; Lateral hypothalamus; Cocaine; Heroin (Ahmed, S.H. (526) 9)

Drug addiction; Habit; Compulsion; Impulsivity; Sensitization; Tolerance; Allostasis; Orbitofrontal cortex; Dorsal striatum; Nucleus accumbens (Vanderschuren, L.J.M.J. (526) 77)

Pregnane-X-receptor

Forskolin; CYP3A (Dowless, M.S. (512) 9)

Pregnant human uterus

α_1 -adrenoceptor subtypes; Estrogen receptor subtypes (Ducza, E. (528) 183)

Pregnenolone sulfate

Hippocampus; G protein; Presynaptic receptor; Sigma receptor; Steroid (Schiess, A.R. (518) 22)

Prepulse inhibition

Light–dark box; Anxiety; Nicotine; Startle; Withdrawal; (Mouse) (Jonkman, S. (516) 40)

Presenilin

Tumor growth; Angiogenesis; Secretase; Amyloid precursor protein (Paris, D. (514) 1)

Presynaptic receptor

Hippocampus; G protein; Pregnenolone sulfate; Sigma receptor; Steroid (Schiess, A.R. (518) 22)

Presynaptic voltage-dependent Ca^{2+} influx

Ginkgolide B; Glutamate exocytosis; Hippocampal synaptosome; Protein kinase A (Wang, S.-J. (514) 141)

Primary cortical cultures

Cyclooxygenase-2; Prostaglandin E_2 ; Oxygen–glucose deprivation; Preconditioning; Ca^{2+} (Gendron, T.F. (517) 17)

Primary sensory neuron

Calcium; Fura-2; Long-chain fatty alcohol; Pituitary neural lobe; Trimethyl-cyclohexenonic alcohol (Jover, E. (516) 197)

Probenecid

Kynurenic acid; Glucosamine-kynurenic acid; Neuroprotection; Hippocampus; (Rat) (Robotka, H. (513) 75)

Procyclidine

Transdermal patch; Physostigmine; Soman; Mortality; Brain injury; Incapacitation (Kim, W.-S. (525) 135)

Proinflammatory cytokine

Acetylsalicylic acid; Vitamin C; Antioxidant enzyme (Konturek, P.C. (506) 169)

Prokineticin

Gastrointestinal motility; Ghrelin; Metoclopramide; Motilin (Bassil, A.K. (524) 138)

Proliferation

Sho-saiko-to, (SST); Wogonin; CD4/CD8 ratio; CD8^+ T-cell (Ohtake, N. (507) 301)

Leucine; DNA synthesis; Hepatocyte (Kimura, M. (510) 167)

Iptakalim; ATP-sensitive potassium channel; Fluo-3; Pulmonary arterial smooth muscle cell (Xie, W. (511) 81)

YC-1; Mesangial cells; Cyclin D1; p38 mitogen-activated protein kinase (Chiang, W.-C. (517) 1)

Propelled liquid volume

Ileum; Nitrergic neuron; Nitric oxide; Peristalsis; (Hamster) (Shiina, T. (517) 120)

Propriverine and metabolites

Juvenile pig; Detrusor contraction (Wuest, M. (524) 145)

Propofol

Human AMPA-type receptor; Desensitization; Patch-clamp; Fast solution exchange (Krampfl, K. (511) 1)

Propranolol

HERG (human ether-a-go-go related gene); QTc interval prolongation (Yao, X. (519) 208)

Prostacyclin

Nitrergic innervation; Mesenteric artery (Ferrer, M. (506) 151)

Prostaglandin

Monocyte; Adhesion molecule (Takahashi, H.K. (512) 223)

Diastole; Vasodilatation; Adenosine; Nitric oxide (Kisch-Wedel, H. (517) 208)

Monocyte; Adhesion molecule (Takahashi, H.K. (517) 252)

Cutaneous barrier disruption; Transepidermal water loss; Mechanical scratching (Honma, Y. (518) 56)

COX-2; Ulcer healing; Omeprazole; Misoprostol; Celecoxib (Poonam, D. (519) 277)

Aging; Vasoactive agent; Coronary circulation; Endothelial function; Nitric oxide (Ishihata, A. (523) 119)

Organic anion transporter; Renal cortical slice; Renal proximal tubule (Nagai, J. (525) 128)

Prostaglandin E_2

8-Isoprostaglandin $\text{F}_{2\alpha}$; Carrageenan-induced air pouch model; Cyclooxygenase inhibitor; Vitamin E (Çiçek Özdöl, N. (506) 189)

Bombesin; Thromboxane A_2 ; Noradrenaline; Adrenal gland; Sympathetic nerve (Yokotani, K. (512) 29)

Cyclooxygenase-2; Oxygen–glucose deprivation; Preconditioning; Ca^{2+} ; Primary cortical cultures (Gendron, T.F. (517) 17)

Prostanoid

Acetylcholine; Nitric oxide; Cyclic GMP; Potassium channel; Endothelial muscarinic receptor; Horse dorsal penile vein (Martínez, A.C. (515) 150)

Prostate

Vanilloids; Capsaicin; TRPV1 (Sánchez, M.G. (515) 20)

Protein C

Disseminated intravascular coagulation model; Venous thrombosis model; Factor Xa inhibitor; Thrombin inhibitor; Thrombin generation (Furugohri, T. (514) 35)

Protein kinase A

Ginkgolide B; Glutamate exocytosis; Hippocampal synaptosome; Presynaptic voltage-dependent Ca^{2+} influx (Wang, S.-J. (514) 141)

Isoprostan; K^+ channel; Cyclic AMP; Rho/Rho-kinase (Zhang, Y. (520) 22)

Heart; Morphine withdrawal; Protein kinase C (Cerezo, M. (522) 9)

Protein kinase C

Cardiac; Hypertrophy; Diabetes; PPAR γ ; Troglitazone (Bell, D. (508) 69)

Helenalin; Cell differentiation; Extracellular signal-regulated kinase; Nuclear factor- κB (Kim, S.H. (511) 89)

Cognition; Depression; Learning and memory; Mood; Open space swim test (Sun, M.-K. (512) 43)

Hypertension; Basal vascular tone; Mitogen-activated protein kinase; Vascular smooth muscle (Kim, J. (514) 209)

GF 109203X; Airway smooth muscle; Desensitization; β -Adrenoceptor (Boterman, M. (516) 86)

Calcium; Intestine; Phorbol ester; Cell damage (Tepperman, B.L. (518) 1)

Heart; Morphine withdrawal; Protein kinase A (Cerezo, M. (522) 9)

α_1 -adrenoceptor; Receptor phosphorylation; Protein phosphatase; Desensitization; Phosphatidylinositol 3-kinase (Alcántara-Hernández, R. (525) 18)

Protein kinase C- ϵ

KR-31378; Potassium channel; Cardiac cell; Hypoxia (Moon, C.-H. (506) 27)

Protein kinase C ϵ

Ethanol withdrawal; 17β -estradiol; Membrane translocation (Jung, M.E. (515) 62)

Protein kinase G

Sildenafil; Cyclic GMP; K^+ channel; Peripheral processing (Ambriz-Tututi, M. (512) 121)

Sildenafil; Cyclic GMP; K^+ channel; Spinal processing (Araiza-Saldaña, C.I. (527) 60)

Protein phosphatase

α_1 -adrenoceptor; Receptor phosphorylation; Protein kinase C; Desensitization; Phosphatidylinositol 3-kinase (Alcántara-Hernández, R. (525) 18)

Protein phosphorylation

Dephosphatase; cGMP; GEA 3175; Nitric oxide; Relaxation; SNAP (Persson, A.A. (521) 124)

Protein release

Neonatal rat cardiomyocyte; Cyclosporin A; Ischemia–reperfusion; Electrophysiology; Cell contraction; Heat shock protein; Mitochondria (Bès, S. (511) 109)

Protein structure

P2X receptor; Atomic force microscopy; ATP (Nakazawa, K. (518) 107)

Protein–serine–threonine kinase

Rho GTP-binding protein; Angioplasty; Trapidil; Forskolin (Ishikura, K. (515) 28)

Proteinuria

Dopamine D1-like receptor; Nephrosis; Puromycin aminonucleoside; Zelandopam (Yatsu, T. (510) 121)

Protium kleinii

Skin inflammation; Burseraceae; α -Amyrin; Triterpenes; Ear oedema (Otuki, M.F. (507) 253)

Protocatechuic aldehyde

Endothelial cell; Adhesion; NF- κ B (nuclear factor- κ B); AP-1 (activator protein-1) (Zhou, Z. (513) 1)

Proton

GABA; Pentobarbital; GABA $_A$ receptor; *Xenopus* oocyte (Wang, M.-D. (528) 1)

Proton pump

Asthma; Common cold; ICAM-1 (intercellular adhesion molecule-1); Lansoprazole (Sasaki, T. (509) 201)

Protopine

K $_{ATP}$ channel; Sulphonylurea receptor; Heterologous expression; BK $_{Ca}$ channel (Jiang, B. (506) 93)

Pruritus

MRL/*lpr* mouse; Scratching behavior; κ -opioid agonist (Umeuchi, H. (518) 133)

Cholestasis; [35 S]GTP γ S binding; Opioid system; (Rat) (Inan, S. (518) 182)

P-selectin

Neutrophil; Platelet; YC-1; Cathepsin G; fMLP; Whole blood (Liao, C.-H. (519) 158)

Leukocyte; L-selectin; Platelet; Restenosis; Sulfatide; Thrombosis (Shimazawa, M. (520) 118)

Pseudo-autosomal region

Aggression; Quantitative trait locus; Steroid sulfatase; Y-chromosome (Roubertoux, P.L. (526) 172)

Psychotomimetic

Cannabidiol; Cannabinoid; Antipsychotic; Locomotion; Catalepsy (Moraes, F.A. (512) 199)

Pulmonary arterial smooth muscle cell

Proliferation; Iptakalim; ATP-sensitive potassium channel; Fluo-3 (Xie, W. (511) 81)

Pulmonary artery

Chloride channel; Niflumic acid; Bumetanide; Nifedipine; rat (Oriowo, M.A. (506) 157)

Pulmonary chemoreflex

TRPV1 receptor antagonist; JYL1421 (SC0030); Sensory neuropeptide release; Ca^{2+} accumulation; Wiping test; Hypothermia (Jakab, B. (517) 35)

Pulmonary hypertension

Molsidomine; Sildenafil; Acetylcholine; Atrial natriuretic peptide; (Chronic hypoxic rats) (Andersen, C.U. (510) 87)

Acute pulmonary embolism; L-arginine; Nitric oxide; Phosphodiesterase-5 inhibitor; Sildenafil (Souza-Silva, A.R. (524) 126)

Chronic exercise; Vasorelaxation; Vasoconstriction (Goret, L. (527) 121)

Pulmonary oedema

α -Naphthylthiourea; Morphine; Naloxone methiodide; Inflammation (Comert, M. (511) 183)

Puromycin aminonucleoside

Dopamine D1-like receptor; Nephrosis; Proteinuria; Zelandopam (Yatsu, T. (510) 121)

Pyrexia

Cyclooxygenase; Inducible nitric oxide synthase; Interaction; Isobologram (Bhat, A.-S. (511) 137)

Pyruvate

Muscimol; Glucose; Metabolism; Spontaneous alternation; Shock avoidance; Hippocampus (Krebs, D.L. (520) 91)

QT interval

HERG; Risk assessment; (Dog) (Schneider, J. (512) 53)

QTc interval prolongation

HERG (human ether-a-go-go related gene); Propranolol (Yao, X. (519) 208)

QT-interval

Trazodone; hERG; Polymorphous ventricular tachycardia; Torsade de pointes (Tarantino, P. (510) 75)

Quantitative trait locus

Aggression; Steroid sulfatase; Pseudo-autosomal region; Y-chromosome (Roubertoux, P.L. (526) 172)

Quaternary naloxone

Pain; Opiate; Formalin test; Hargreaves test; Post-treatment (Sevostianova, N. (525) 83)

Quercetin

Inducible nitric oxide synthase; Nuclear factor- κ B; Signal transducer and activator of transcription-1; Heme oxygenase-1; Microglia (Chen, J.-C. (521) 9)

Quinapril

Atorvastatin; Apoptosis; Confocal microscopy; Hypertension; Morphometry; Vascular reactivity (Yang, L. (518) 145)

R-102444

5-HT_{2A} receptor; Serotonin; Pancreatitis; R-96544 (Ogawa, T. (521) 156)

R-715

Type 1 diabetes; Non-obese diabetic mice; Hyperalgesia; Kinin; Bradykinin B₁ receptor; desArg⁹bradykinin; R-954 (Gabra, B.H. (514) 61)

R-954

Type 1 diabetes; Non-obese diabetic mice; Hyperalgesia; Kinin; Bradykinin B₁ receptor; desArg⁹bradykinin; R-715 (Gabra, B.H. (514) 61)

R-96544

5-HT_{2A} receptor; Serotonin; Pancreatitis; R-102444 (Ogawa, T. (521) 156)

(Rabbit)

Atrial natriuretic peptide; Brain natriuretic peptide; C-type natriuretic peptide; Cyclic GMP protein kinase (Zhang, Q. (510) 209)

Rabbit aorta

α_1 -Adrenoceptor subtype; α_{1B} -Adrenoceptor; α_1 -Adrenoceptor antagonist; α_{1B} -Adrenoceptor antagonist; (+)-Cyclazosin (Marucci, G. (522) 100)

Rabbit cardiac myocyte

Inotropic effect; Ca²⁺ transient; Endothelin-1; Wortmannin (Chu, L. (507) 135)

Radio telemetry

1,4-Butanediol; Schedule-controlled behavior; Mean arterial pressure; Heart rate; Rat (Gerak, L.R. (506) 75)

Radioligand binding

Melanocortin receptor; Cooperativity; Melanocyte stimulating hormone; Sf9 cells; Calcium (Kopanchuk, S. (512) 85)

5-HT_{2A} receptor; 5-HT_{2B} receptor; Canine; Cloning (Bonaventure, P. (513) 181)

σ_2 receptor; Benzamide; Breast tumor (Xu, J. (525) 8)

Ralfinamide

Dorsal root ganglion; Sensory neuron; Tetrodotoxin-resistant sodium channel; Tetrodotoxin-sensitive sodium channel; NW-1029 (Stummann, T.C. (510) 197)

Ramatroban

CRTH2 (Chemoattractant receptor-homologous molecule expressed on Th2 cells); Indomethacin; 15d-PGJ₂ (15-deoxy- $\Delta^{12,14}$ -PGJ₂); Competitive inhibitory effect (Sugimoto, H. (524) 30)

Raphe

Circadian; Suprachiasmatic; Neurokinin; Depression (Gannon, R.L. (527) 86)

Rapidly adapting receptor

Cough reflex; C-fiber; ATP; Ionotropic purinergic receptor (Kamei, J. (528) 158)

(rat)

Streptozotocin-diabetes; Colon; Ileum; Calcium; Motility (Forrest, A. (509) 77)

(Rat)

GBR 12935 derivative; Dopamine transporter; Monoamine uptake; Hydrogen bonding; Cocaine antagonist; Striatum (Zhen, J. (506) 17)

1,4-Butanediol; Schedule-controlled behavior; Mean arterial pressure; Heart rate; Radio telemetry (Gerak, L.R. (506) 75)

Neocortex; Baclofen; 3-Chloro,4-methoxyfendiline; Pre- and postsynaptic GABA_B receptor (Ong, J. (507) 35)

Dopamine; Acetylcholine; Microdialysis; Benzodiazepines; Valium; Withdrawal; Flumazenil (Rada, P. (508) 131)

Captopril; Homocysteine; Endothelium-dependent relaxation; ADMA (Asymmetric dimethylarginine); NO (Nitric oxide) (Fu, Y.-F. (508) 167)

Diabetes; Mesenteric vascular bed; Nitric oxide; Magnesium; Endothelium dysfunction (Soltani, N. (508) 177)

Corticotropin releasing factor; Stress; Behavior; Amygdala; Antagonist (Gehlert, D.R. (509) 145)

Jaw movement; Nucleus accumbens shell; Retrorubral field; Ventral pallidum; GABA_A receptor; Dopamine D1/D2 receptor stimulation (Uchida, T. (510) 39)

Endotoxin; CYP3A2; CYP2C11; P-glycoprotein; Antipyrine clearance (Ueyama, J. (510) 127)

Diabetes; VEGF (vascular endothelial cell growth factor); Angiogenesis; Calcium dobesilate (Lameynardie, S. (510) 149)

Memory improvement; Brain energy metabolism; Habituation; Recognition memory; Mitochondrial respiration (Riha, P.D. (511) 151)

Allopregnanolone (3 α -hydroxy-5 α -pregnan-20-one); Isoallopregnanolone (3 β -hydroxy-5 α -pregnan-20-one); Neurosteroid antagonism; Anaesthesia threshold; Male (Bäckström, T. (512) 15)

Thinner; Learning; Memory; NCAM (Baydas, G. (512) 181)

Kynurenic acid; Probenecid; Glucosamine-kynurenic acid; Neuroprotection; Hippocampus (Robotka, H. (513) 75)

Cannabinoid CB₁ receptor; GABA_B receptor; Antinociceptive; Spinal cord (Naderi, N. (514) 159)

5-HT_{2C} receptor; Place conditioning; Locomotor activity (Mosher, T. (515) 107)

Epileptic seizure; Cerebral cortex; NMDA receptor antagonist; Development (Šlamberová, R. (516) 10)

5-HT_{2A}; Endocannabinoid; Alpha-amino-3-hydroxy-5-methyl-4-isoxazole-propionic acid (AMPA); Kainate; Wet dog shake (Gorzalka, B.B. (516) 28)

Bladder overactivity; K_{ATP} channel opener (Pinna, C. (516) 71)

Diabetes; Diallyl trisulfide; Garlic oil; Glycemic control; Streptozotocin (Liu, C.-T. (516) 165)

Cocaine; Butyrylcholinesterase; Ecgonine methylester; Cymserine; Benzoyllecgonine (Carmona, G.N. (517) 186)

Cholestasis; Pruritus; [³⁵S]GTPγS binding; Opioid system (Inan, S. (518) 182)

β-adrenoceptors; Peroxynitrite; Redox; Nitration; Vasodilation; Heart rate (Lewis, S.J. (518) 187)

Subjective effect; Drug discrimination; Reward; Nicotine; Ethanol (Le Foll, B. (519) 96)

(+)-Methamphetamine; (+)-Amphetamine; Monoclonal antibody (Byrnes-Blake, K.A. (521) 86)

Antisense oligonucleotide; Food intake; Melanocortin; Small interfering RNA (Senn, C. (522) 30)

Neuropathic pain; Allodynia; Formalin test; Antinociception; Neurometer (Akada, Y. (523) 46)

ATP-sensitive K⁺ channels (Adenosine 5'-triphosphate-sensitive K⁺ channels); Cerebral artery; Vasodilatation; Endothelium; Vascular smooth muscle (Jansen-Olesen, I. (523) 109)

κ-Opioid receptor; JDtic; Morphine physical dependence (Carroll, F.I. (524) 89)

GABA receptor; Conditioned place preference; Morphine; Ventral tegmental area (Sahraei, H. (524) 95)

Aggression; Resident–intruder; Serotonin; 5-HT_{1A}; 5-HT_{1B} (de Boer, S.F. (526) 125)

Aggression; Genetics; Serotonin transporter; Monoamine oxidase A; 5-hydroxyindoleacetic acid; Microdialysis; (Monkey); (Mice) (Francesco Ferrari, P. (526) 259)

Bradykinin B₁ receptor; Antinociception; Spinal cord (Conley, R.K. (527) 44)

rat

Chloride channel; Niflumic acid; Bumetanide; Nifedipine; Pulmonary artery (Oriowo, M.A. (506) 157)

Rat

Nicotine; Cocaine; Behavioral conditioning; Development; Substance abuse (McMillen, B.A. (509) 161)

(Rat) aorta

Bradykinin B₁ receptor; Lipopolysaccharide; Calcium-dependent K⁺ channel (Farias, N.C. (525) 123)

Rat aorta

Spanish red wine; Composition; Polyphenol; Vasodilation; Endothelium (Padilla, E. (517) 84)

Rat atrium

H⁺/K⁺-ATPase; Inotropy; Omeprazole; Lansoprazole; SCH 28080 (Yenisehirli, A. (519) 259)

Rat basilar artery

Subarachnoid hemorrhage; Vasopressin; Vasopressin V₁ receptor; Endothelium-dependent contraction (Nishihashi, T. (513) 93)

(Rat) brain and liver

β-carboline; Norharman; Imidazoline I₂ receptor; [³H]2-BFI; [³H]Ro41-1049; [³H]Ro19-6327 (lazabemide); Morphine addiction (Miralles, A. (518) 234)

Rat colon

Carbachol; Cl[−] channel (Schultheiss, G. (512) 67)

Rat liver

Resveratrol; Mitochondria; Antioxidant; Permeability transition pore; Reactive oxygen species; Ischemia–reperfusion (Plin, C. (528) 162)

(Rat, Mouse)

Analgesic; Neuropathic pain; Inflammatory pain; Nociception (Christoph, T. (507) 87)

Rat pancreas

Sodium tungstate; Insulin; Somatostatin (Silvestre, R.A. (519) 127)

Rat portal vein

Capacitative Ca²⁺ entry; Store operated Ca²⁺ entry; Cyclopiazonic acid; Niflumic acid (Burt, R.P. (510) 97)

Rat sciatic nerve

NMDA receptor antagonist; Memantine; Neramexane; Morphine analgesia; Clonidine; Allodynia; Experimental nerve injury (Malyshekin, A.A. (519) 80)

Rat spinal cord

5-HT_{1A} receptor; c-Fos protein; Formalin; F 13640; Morphine (Buritova, J. (514) 121)

Levetiracetam; SV2A; Binding (Lambeng, N. (520) 70)

Rat uterus

Kinin; Bradykinin; Insulin; Glucose; Angiotensin-converting enzyme inhibitor (Damas, J. (525) 154)

Rat ventricle

Glucagon; Dobutamide; Phosphodiesterase inhibitor; Cilostamide; Cardiac contractility; cAMP (Juan-Fita, M.J. (512) 207)

(Rats)

Gastric pentadecapeptide BPC 157; Pargyline/L-tryptophan; Serotonin syndrome; 5-HT_{2A} receptor antagonism (Boban Blagaic, A. (512) 173)

Reactive oxygen specie

Free radical; Alveolar bone loss; Periodontal disease (Di Paola, R. (516) 151)

Reactive oxygen species

Satratoxin H; Apoptosis; Glutathione; N-Acetyl-L-cysteine; Mitogen-activated protein kinase (Nusuetrong, P. (507) 239)

Endothelin-1; Resveratrol; Angiotensin II; Smooth muscle cell; ERK (extracellular signal-regulated kinase) (Chao, H.-H. (515) 1)

Apoptosis; TRF1; TRF2; Arsenic trioxide; Telomeric state (Zhang, Y. (516) 1)

Tectorigenin; Antioxidant enzyme (Kang, K.A. (519) 16)

Acute ethanol; Acetaldehyde; Acamprosate; Microdialysis (Dahchour, A. (520) 51)

Edaravone; Cochlear protection; Antioxidant; Acoustic trauma; 4-HNE; (4-hydroxy-2-nonenal) (Tanaka, K. (522) 116)

Sampangine; Apoptosis; Plant alkaloid; Mitochondria; Caspase (Kluza, J. (525) 32)

Resvaratrol; Rat liver; Mitochondria; Antioxidant; Permeability transition pore; Ischemia–reperfusion (Plin, C. (528) 162)

Receptor

Tilidine; Nortilidine; Opioid; Nociceptin (Thierry, C. (506) 205)

Neuropeptide FF; Morphine; Analgesia; (Mouse) (Quelven, I. (508) 107)

Nociception; Surrogate ligand (Nothacker, H.-P. (519) 191)

σ_1 Receptor

Formalin; Non-acute pain (Cendán, C.M. (511) 73)

σ_2 receptor

Radioligand binding; Benzamide; Breast tumor (Xu, J. (525) 8)

Receptor binding

N-formylmethionyl peptide; Neutrophil; human; Chemotaxis; Superoxide anion generation; Lysozyme release (Cavicchioni, G. (512) 1)

$\alpha 7$ nicotinic receptor; Neuronal nicotinic receptor; Nicotine; Methyllycanitine; Epibatidine (Nuutinen, S. (515) 83)

Receptor density

Aripiprazole; Antipsychotic; Partial agonist; Dopamine D2 receptor; Schizophrenia (Tadori, Y. (515) 10)

Receptor occupancy

Chemokine CCR5 receptor; Human CCR5 transgenic mouse; Pharmacodynamics (Saita, Y. (518) 227)

Receptor phosphorylation

δ -opioid receptor; Morphine (Navratilova, E. (519) 212)

α_1 -adrenoceptor; Protein kinase C; Protein phosphatase; Desensitization; Phosphatidylinositol 3-kinase (Alcántara-Hernández, R. (525) 18)

Receptor reserve

CHO-K1; Angiotensin II; Angiotensin AT₁ receptor; Internalization (Le, M.T. (513) 35)

Receptor signaling

Adenylyl cyclase; G-protein; Pertussis toxin; Ligand attachment; Ligand dissociation (Sah, R. (525) 60)

Receptor subtype

Vascular relaxation; Cholinergic receptor; Deoxycholic acid; Cirrhosis (Khurana, S. (517) 103)

Recognition memory

Memory improvement; Brain energy metabolism; Habituation; Mitochondrial respiration; (Rat) (Riha, P.D. (511) 151)

Red wine

Cardiac myocyte; Cell contraction; Ca²⁺ current; Action potential (Liew, R. (519) 1)

Redox

β -adrenoceptors; Peroxynitrite; Nitration; Vasodilation; Heart rate; (Rat) (Lewis, S.J. (518) 187)

Redox status

Goniothalamin; cdc25C; Apoptosis; MDA-MB-231 cell (Chen, W.-Y. (522) 20)

3 α ,5 β -Reduced cortisol

Cortisol; 11-Deoxycortisol; GABA_A receptor; Neuroactive steroid; Tetrahydrodeoxycorticosterone (Penland, S.N. (506) 129)

Reduced glutathione

Celecoxib; Rofecoxib; Acetic-acid-induced colitis; Myeloperoxidase; Total nitric oxide synthetase (El-Medany, A. (507) 291)

Regional blood flow

Oral hypoglycemic agent; Tolbutamide; Nitric oxide; Microsphere; Otsuka Long–Evans Tokushima Fatty rat (Iwase, M. (518) 243)

Reinforcement

Addiction; Analgesics; Antidepressant; Drug abuse; Operant behaviour; Opioid (Magalas, Z. (528) 103)

Reinstatement

Cocaine; Conditioned drug cues; Extinction; Heroin; Incubation; Relapse; Review; Stress (Bossert, J.M. (526) 36)

Addiction; Amygdala; Cocaine; Conditioning; Cue; Relapse (See, R.E. (526) 140)

Metabotropic glutamate receptor; Glutamate; Self-administration; Conditioning; Alcohol (Bäckström, P. (528) 110)

Relapse

Cocaine; Conditioned drug cues; Extinction; Heroin; Incubation; Reinstatement; Review; Stress (Bossert, J.M. (526) 36)

Addiction; Nucleus accumbens; Dopamine; Glutamate (Schmidt, H.D. (526) 65)

Addiction; Amygdala; Cocaine; Conditioning; Cue; Reinstatement (See, R.E. (526) 140)

Relapse prevention

Alcohol; Addiction; Treatment; Pharmacotherapy (Kiefer, F. (526) 163)

Relaxation

ATP; P2X receptor; P2Y receptor; Mouse stomach; Contraction (Mulè, F. (513) 135)

Dephosphatation; cGMP; GEA 3175; Nitric oxide; Protein phosphorylation; SNAP (Persson, A.A. (521) 124)

REM (Rapid eye movement) suppression

EEG (Electroencephalogram); Desipramine; Citalopram; Fluoxetine; Circadian rhythm; WKY (rat) (Ivarsson, M. (522) 63)

Remodeling

Extracellular matrix; Adventitia (Tsuruda, T. (508) 201)

Coronary circulation; Endothelial function; Myocardial infarction; Vasodilatation; Nitric oxide; Superoxide (Berges, A. (516) 60)

LT_{D4}; ASK1; AP-1; Airway smooth muscle cells (Kumasawa, F. (517) 11)

Hypoxic cor pulmonale; Angiotensin II-receptor blocker; Olmesartan medoxomil; Hypoxia; Collagen; Brain natriuretic peptide; TGF- β (Nakamoto, T. (528) 43)

Renal artery

Nebivolol; Vasodilation; Hyperpolarization (Georgescu, A. (508) 159)

Renal cortical slice

Prostaglandin; Organic anion transporter; Renal proximal tubule (Nagai, J. (525) 128)

Renal denervation

GABA (γ -aminobutyric acid); Antihypertensive; Kidney; Spontaneously hypertensive rat; Renin (Hayakawa, K. (524) 120)

Renal dysfunction

Bisphosphonate; Hypercalcaemia (Komatsu, Y. (507) 317)

Renal hypertension

Ouabain; Contractile response; Membrane depolarization; Endothelium (Molin, J.C. (522) 94)

Renal proximal tubule

Prostaglandin; Organic anion transporter; Renal cortical slice (Nagai, J. (525) 128)

Renal vasodilation

K⁺; Endothelium-dependent; K⁺ channel (Quilley, J. (508) 193)

Renin

GABA (γ -aminobutyric acid); Antihypertensive; Kidney; Spontaneously hypertensive rat; Renal denervation (Hayakawa, K. (524) 120)

Renin angiotensin system

Blood pressure; Glucose; Insulin; Sympathetic nervous system; Vasodilation (Villafañá, S. (506) 143)

Renin–angiotensin system

Angiotensin-converting enzyme; Myocardial hypertrophy; Isoproterenol; β -adrenoceptor (Oliveira, E.M. (520) 135)

Reperfusion

Ischemia; Endothelin; U46619; Vasoconstriction; NO (nitric oxide) (García-Villalón, A.L. (509) 165)

Resident–intruder

Aggression; Serotonin; 5-HT_{1A}; 5-HT_{1B}; (Rat) (de Boer, S.F. (526) 125)

Animal model of depression; Chronic antidepressant treatment; Agonistic behaviour; Social hierarchy; Suicide ideation (Mitchell, P.J. (526) 147)

Resiniferatoxin

Emesis; Nausea; Migraine; Vanilloid; Sumatriptan; Dihydroergotamine; *Suncus murinus* (Cheng, F.H.M. (508) 231)

Diabetes; Sensory nerve; Dipeptidyl peptidase IV; (Zucker Diabetic Fatty rat) (Gram, D.X. (509) 211)

Respiratory depression

[Dmt¹]DALDA; Morphine; Hypoxic respiratory response (Shimoyama, M. (511) 199)

Respiratory quotient

β_3 -adrenoceptor; AJ-9677; Energy expenditure (Sugimoto, T. (519) 135)

Restenosis

Leukocyte; L-selectin; Platelet; P-selectin; Sulfatide; Thrombosis (Shimazawa, M. (520) 118)

Sirolimus; Paclitaxel; Cell proliferation; Cell cycle (Parry, T.J. (524) 19)

Resvaratrol

Rat liver; Mitochondria; Antioxidant; Permeability transition pore; Reactive oxygen species; Ischemia–reperfusion (Plin, C. (528) 162)

Resveratrol

Endothelin-1; Angiotensin II; Smooth muscle cell; Reactive oxygen species; ERK (extracellular signal-regulated kinase) (Chao, H.-H. (515) 1)

Reticular stress

Apoptosis; Mitochondria; Albumin; Neuroprotection (Gallego-Sandín, S. (520) 1)

Retinal delivery

Celecoxib; Microparticle; Oxidative stress; Diabetes (Ayalasomayajula, S.P. (511) 191)

Retrobulbar field

Jaw movement; Nucleus accumbens shell; Ventral pallidum; GABA_A receptor; Dopamine D1/D2 receptor stimulation; (Rat) (Uchida, T. (510) 39)

Review

Cocaine; Conditioned drug cues; Extinction; Heroin; Incubation; Reinstatement; Relapse; Stress (Bossert, J.M. (526) 36)

Reward

Subjective effect; Drug discrimination; Nicotine; Ethanol; (Rat) (Le Foll, B. (519) 96)

Dopamine; Addiction; Human; Attention; Craving (Franken, I.H.A. (526) 199)

Ethanol abuse; Knockout; Inverse agonist (Stephens, D.N. (526) 240)

RHC-80267

Endothelium-dependent relaxation; Acetylcholine; Cholinesterase; Diacylglycerol lipase; Mesenteric artery (Ghisalá, P. (517) 97)

rhesus

8-Carboxamidocyclazocine; Kappa agonist; Cocaine; Drug self-administration; Monkey (Stevenson, G.W. (506) 133)

***Rheum palmatum* L.**

Diabetic gastroparesis; Postprandial hypertriglyceridemia; Domperidone; Atropine (Xie, W. (510) 113)

Rho GTP-binding protein

Angioplasty; Trapidil; Protein–serine–threonine kinase; Forskolin (Ishikura, K. (515) 28)

Rho kinase

Electrical field stimulation; Sheep gallbladder smooth muscle; Y-27632 (Şahan-Fırat, S. (528) 169)

RhoA translocation

Bronchial smooth muscle; Endothelin-1 (Chiba, Y. (517) 182)

Rho-kinase

eNOS; Hypertension; Endothelial function; Nitric oxide; Y27632 (Löhn, M. (507) 179)

Lung injury; Nitric oxide; Oleic acid; Y-27632 (Köksel, O. (510) 135)

Angiotensin II; Cardiac hypertrophy; Perivascular fibrosis; Cardiac dysfunction; Apolipoprotein E knockout mice (Wang, Y.-X. (512) 215)

Hypercholesterolemia; Endothelial dysfunction (Steioff, K. (512) 247)

Arrhythmia; Fasudil; Infarct size; Preconditioning (Demiryürek, Ş. (527) 129)

Rho/Rho-kinase

Isoprostan; K^+ channel; Cyclic AMP; Protein kinase A (Zhang, Y. (520) 22)

Rilmenidine

Clonidine; α -Methylnorepinephrine; Rostral ventrolateral medulla; Nucleus tractus solitarius; SHRs (spontaneously hypertensive rats); c-Jun (Wang, X. (514) 191)

Risk assessment

QT interval; HERG; (Dog) (Schneider, J. (512) 53)

R-K, paracetamol

N/OFQ (nociceptin/orphanin FQ); UFP-101; Analgesia; Hot plate test (Sandrini, M. (507) 43)

RNAi (*Drosophila melanogaster*)

GABA_B (metabotropic γ -aminobutyric acid) receptor; GHB (γ -hydroxybutyric acid); Ethanol (Dimitrijevic, N. (519) 246)

Rofecoxib

Celecoxib; Acetic-acid-induced colitis; Myeloperoxidase; Reduced glutathione; Total nitric oxide synthetase (El-Medany, A. (507) 291)

Roscovitine

Olomoucine; Caspase; SH-SY5Y; Jurkat (Ribas, J. (524) 49)

Rosiglitazone

Myeloprotection; Stem cell; CFU-GM (Granulocyte–macrophage progenitor cell); Neutropenia; Insulin (Djazayeri, K. (522) 122)

Rostral ventrolateral medulla

Rilmenidine; Clonidine; α -Methylnorepinephrine; Nucleus tractus solitarius; SHRs (spontaneously hypertensive rats); c-Jun (Wang, X. (514) 191)

Rotation

cAMP; Caudate; Dopamine D2 receptor; c-fos; Striosome; SKF83959 (Wirtshafter, D. (528) 88)

R-type Ca^{2+} channel

Islets of Langerhans; Peptide hormone-release; Cholinergic; Gene inactivation; Toxin-resistant current (Pereverzev, A. (511) 65)

Rutin

Isoquercitrin; Asthma; Carbachol; *Argemone platyceras*; Antigen challenge; Anti-asthmatic properties; Anti-leukotriene action (Fernandez, J. (522) 108)

Ryanodine receptor

HEK293 cells; Ca^{2+} release; Capacitative Ca^{2+} entry (Luo, D. (509) 109)

Ca^{2+} -induced Ca^{2+} release; Bupivacaine enantiomers; Stereoselectivity; Skeletal muscle; Skinned fiber (Ibarra M., C.A. (512) 77)

K^+ current density; Hypertension; Sarcoplasmic reticulum (Zhang, Y. (514) 111)

Denervation; Vas deferens; Sarco(endo)plasmic reticulum (Ca^{2+} – Mg^{2+})ATPase; Plasma membrane (Ca^{2+} – Mg^{2+})ATPase; Calcium (Quintas, L.E.M. (525) 54)

S34176

Neurodegeneration; Free radical scavenger; Ischaemia; Kainic acid; Nitron (Lockhart, B. (511) 127)

S-adenosylhomocysteine

Endothelium; Homocysteine; Kynurenic acid (Stazka, J. (517) 217)

Salivary gland inflammation

Parotid acinar amylase secretion; Nitric oxide; Endotoxin; NOS2 induction (Barta, A. (524) 169)

Sampangine

Apoptosis; Reactive oxygen species; Plant alkaloid; Mitochondria; Caspase (Kluza, J. (525) 32)

Sarco(endo)plasmic reticulum (Ca^{2+} – Mg^{2+})ATPase

Denervation; Vas deferens; Plasma membrane (Ca^{2+} – Mg^{2+})ATPase; Ryanodine receptor; Calcium (Quintas, L.E.M. (525) 54)

Sarcomere

Embryonic stem cells; Directional differentiation; Embryoid body; Cardiomyocyte; Icaritin; Cell cycle; Apoptosis; p53 (Zhu, D. (514) 99)

Sarcoplasmic reticulum

K^+ current density; Hypertension; Ryanodine receptor (Zhang, Y. (514) 111)

Sardinian alcohol-preferring (sP) (Rat)

Positive allosteric modulation; GABA_B receptor; CGP7930; GS39783; Baclofen; Alcohol drinking behavior (Orrù, A. (525) 105)

Satratoxin H

Reactive oxygen species; Apoptosis; Glutathione; *N*-Acetyl-L-cysteine; Mitogen-activated protein kinase (Nusuetrong, P. (507) 239)

SB 269970

5-carboxamidotryptamine; Adaptive change; Epileptiform activity; Hippocampal slice; WAY 100635 (Tokarski, K. (524) 60)

SB-710411

Urotensin-II; GPR14; UT receptor; BIM-23127; GSK248451; Trachea; Bronchus (Behm, D.J. (516) 276)

SCAN-A

Serotonin; Selective serotonin reuptake inhibitor; Auditory measure; Transient evoked emission; Auditory evoked potential (Gopal, K.V. (520) 59)

SCH 23390

Dopamine; Eticlopride; Globus pallidus; Microdialysis; Neuropeptide; Striatum; Substantia nigra (Frankel, P.S. (522) 47)

SCH 28080

H^+/K^+ -ATPase; Rat atrium; Inotropy; Omeprazole; Lansoprazole (Yenisehirli, A. (519) 259)

SCH 50,911

GABA_B receptor; GTP γ S binding; Chronic treatment; (Mice) (Pibiri, F. (515) 94)

SCH 51866

Sildenafil citrate; Cyclic-nucleotide-gated-channel; cGMP-dependent protein kinase $I\alpha$; K^+ -efflux (Lusche, D.F. (513) 9)

SCH-202676

Internalization; Allosteric modulation; PD 81,723; Human adenosine A₁ receptor; YFP (Klaasse, E.C. (522) 1)

Schedule-controlled behavior

1,4-Butanediol; Mean arterial pressure; Heart rate; Radio telemetry; Rat (Gerak, L.R. (506) 75)

Schizophrenia

Brown Norway rat; Sensorimotor gating; Startle amplitude; Wistar-Kyoto rat (Conti, L.H. (507) 125)

Aripiprazole; Antipsychotic; Partial agonist; Dopamine D₂ receptor; Receptor density (Tadori, Y. (515) 20)

NMDA receptor; Phencyclidine; Cognition; Clozapine; Haloperidol (Hashimoto, K. (519) 114)

Glycine_B site; *N*-methyl-D-aspartate receptors; Dopamine; Antipsychotic (Bennett, S. (527) 52)

Scopolamine

Human nicotinic acetylcholine receptor; Galanthamine; Tacrine; *Xenopus laevis* oocyte; Two-microelectrode voltage clamp (Smulders, C.J.G.M. (509) 97)

Scratching

IL-31; NC/Nga mice (Takaoka, A. (516) 180)

Olopatadine hydrochloride; Histamine H₁ receptor antagonist; Atopic dermatitis; Animal model (Tamura, T. (524) 149)

Scratching behavior

Pruritus; MRL/*lpr* mouse; κ -opioid agonist (Umeuchi, H. (518) 133)

Second-order schedules of reinforcement

Cocaine; Amygdala; Nucleus accumbens; Dopamine; Glutamate (Di Ciano, P. (526) 186)

Secretase

Tumor growth; Angiogenesis; Amyloid precursor protein; Presenilin (Paris, D. (514) 1)

 γ -secretase

Alcohol; *Aph-1b*; APO-SUS; APO-UNSUS; Cocaine; Self-administration; Tyrosine hydroxylase (Ellenbroek, B.A. (526) 251)

Secretion

Leukotriene receptor antagonist; Airway mucus; Asthma; COPD (chronic obstructive pulmonary disease) (Schmidt, R. (527) 150)

Sedation

Flavonoid; Hesperidin; Diazepam; Synergy; Sleep-enhancing action (Fernández, S.P. (512) 189)

Sedative effect

Pralidoxime derivative; Soman poisoning; Anticonvulsant effect; Acetylcholine; Non-reactivation effect (Loke, W.-K. (521) 59)

Seizure

Oxcarbazepine; Gabapentin; Electroshock maximal; Isobolographic analysis; Pharmacodynamic interaction (Luszczki, J.J. (515) 54)

Selectin

Leukocyte; Neutrophil; Intimal hyperplasia; Phytic acid (Shimazawa, M. (520) 156)

Selective 5-HT_{1A}/5-HT_{1B} receptor antagonist

Tramadol; Serotonin; Antinociception; Hot plate; (Mice) (Rojas-Corrales, M.O. (511) 21)

Selective serotonin reuptake inhibitor

Ejaculation; Antidepressant; c-fos; 5-HT_{1A} (de Jong, T.R. (509) 49)

Serotonin; Auditory measure; Transient evoked emission; Auditory evoked potential; SCAN-A (Gopal, K.V. (520) 59)

Selectivity

Cdc25B; HTS (high throughput screening); MCF-7; Antiproliferation; Cdk1 (cell-cycle-dependent kinase 1) (Kim, K.-R. (528) 37)

Selegiline

Donepezil; Water maze; Memory; Acetylcholine (Takahata, K. (518) 140)

Self-administration

Alcohol; *Aph-1b*; APO-SUS; APO-UNSUS; Cocaine; γ -secretase; Tyrosine hydroxylase (Ellenbroek, B.A. (526) 251)

Metabotropic glutamate receptor; Glutamate; Reinstatement; Conditioning; Alcohol (Bäckström, P. (528) 110)

Sematiide

Halothane; Pentobarbital; Ventricular repolarization (Takahara, A. (507) 169)

Sensitivity

Diethylpropion; WAY 100635; Marmoset; Figure-eight maze (Mello Jr., E.L. (511) 43)

Sensitivity of histamine

Experimental allergic rhinitis; Passive cutaneous anaphylaxis titer; Mometasone; Chlorpheniramine (Tsumuro, T. (524) 155)

Sensitization

Fear conditioning; Fear-potentiated startle; Foot shock; Light-enhanced startle; Noradrenaline (Schweimer, J. (507) 117)

Morphine withdrawal; Opioid; Naltrexone; Fos; Guinea-pig (Mizutani, A. (509) 135)

Drug addiction; Habit; Compulsion; Impulsivity; Tolerance; Allostasis; Prefrontal cortex; Orbitofrontal cortex; Dorsal striatum; Nucleus accumbens (Vanderschuren, L.J.M.J. (526) 77)

Sensorimotor gating

Brown Norway rat; Schizophrenia; Startle amplitude; Wistar-Kyoto rat (Conti, L.H. (507) 125)

Sensory nerve

Resiniferatoxin; Diabetes; Dipeptidyl peptidase IV; (Zucker Diabetic Fatty rat) (Gram, D.X. (509) 211)

Sensory neuron

Hydrogen sulfide (H₂S); Capsaicin; Urinary bladder (Patacchini, R. (509) 171)

Dorsal root ganglion; Tetrodotoxin-resistant sodium channel; Tetrodotoxin-insensitive sodium channel; Ralfinamide; NW-1029 (Stummann, T.C. (510) 197)

Pain; Electrophysiology (Gerevich, Z. (521) 34)

Sensory neuropathy

Cisplatin; Neuropeptide release (Horvath, P. (507) 247)

Sensory neuropeptide release

TRPV1 receptor antagonist; JYL1421 (SC0030); Ca^{2+} accumulation; Wiping test; Hypothermia; Pulmonary chemoreflex (Jakab, B. (517) 35)

Sepsis

Na^+/K^+ -ATPase; Endotoxin; Cardiac glycoside; Mathematical modeling (Baek, M. (514) 43)

Mast cell; Neutrophil migration; Compound 48/80 (Carvalho, M. (525) 161)

Septic shock

Endothelin; Bosentan; Organ injury; Survival (Iskit, A.B. (506) 83)

D-Serine

Aminooxyacetic acid; *N*-Methyl-D-aspartate receptor; Microdialysis; Serine racemase (Hashimoto, A. (525) 91)

D-Amino acid oxidase; Morphine; NMDA (*N*-methyl-D-aspartate) receptor; Serine racemase (Yoshikawa, M. (525) 94)

Serine racemase

Aminooxyacetic acid; *N*-Methyl-D-aspartate receptor; Microdialysis; D-Serine (Hashimoto, A. (525) 91)

D-Amino acid oxidase; Morphine; NMDA (*N*-methyl-D-aspartate) receptor; D-Serine (Yoshikawa, M. (525) 94)

Seroquel

Antipsychotic drug; Dopamine D2 autoreceptor; Extracellular recording; In vitro slice preparation (Werkman, T.R. (506) 47)

Serotonergic system

Tetradrine; Sleep; Pentobarbital; 5-Hydroxytryptophan (Zhao, X. (506) 101)

Lumiracoxib; K^+ channel; NO-cyclic GMP pathway; Charybdotoxin; Apamin; Margatoxin; Opioid receptor (Lozano-Cuenca, J. (513) 81)

Serotonin

Substance abuse; Cocaine; Dopamine; Nucleus accumbens; Microdialysis (Andrews, C.M. (508) 123)

Serotonin receptor subtype; Spinal antinociception; Acetylcholine release (Kommallage, M. (509) 127)

5-HT_{1A} receptor agonist; 5-HT_{2A} receptor antagonist; 5-HT₃ receptor antagonist; Anxiety (Delgado, M. (511) 9)

Tramadol; Selective 5-HT_{1A}/5-HT_{1B} receptor antagonist; Antinociception; Hot plate; (Mice) (Rojas-Corralles, M.O. (511) 21)

MDMA (3,4-Methylenedioxymethamphetamine); 6-OHDA (6-hydroxy-dopamine); Dopamine; Endogenous opioid; Parkinson's disease (Lebsanft, H.B. (516) 34)

Lithium carbonate; Milnacipran; In vivo microdialysis; Noradrenaline; Dopamine (Kitaichi, Y. (516) 219)

OPC-14523; Depression (Jordan, S. (517) 165)

Peptide YY; Hypothalamus; Dopamine; Norepinephrine (Brunetti, L. (519) 48)

Milnacipran; In vivo microdialysis; Noradrenaline; Dopamine (Kitaichi, Y. (520) 37)

Selective serotonin reuptake inhibitor; Auditory measure; Transient evoked emission; Auditory evoked potential; SCAN-A (Gopal, K.V. (520) 59)

Substantia nigra; Ventral tegmental area; Extracellular recording; Anti-psychotic drug (Olijslagers, J.E. (520) 77)

5-HT_{1A} receptor; G protein; [³⁵S]GTPγS binding; Cerebral cortex (Odagaki, Y. (521) 49)

5-HT_{2A} receptor; Pancreatitis; R-102444; R-96544 (Ogawa, T. (521) 156)

5-HT_{1A} receptor; Orthopedic surgery; Intra-operative pain; Postoperative pain; Opioid hyperalgesia (Kiss, I. (523) 29)

Agonistic; Corticosterone; Cortisol; Social; Stress (Summers, C.H. (526) 21)

Aggression; Defense; Frustration; Alcohol; Dopamine; GABA; Neuroleptics; Benzodiazepines (de Almeida, R.M.M. (526) 51)

Aggression; Resident-intruder; 5-HT_{1A}; 5-HT_{1B}; (Rat) (de Boer, S.F. (526) 125)

Aggression; 5-HT_{1B} receptor; 5-HT transporter; 5-HT_{1A} receptor (Olivier, B. (526) 207)

Aggression; Sexual behaviour; Neural mechanism; c-Fos; Pharmacology; Male (Rat) (Veening, J.G. (526) 226)

Serotonin (5-HT) release

Zotepine; Microdialysis (Nakamura, S. (528) 95)

Serotonin (5-hydroxytryptamine, 5-HT)

Microdialysis; Frontal cortex; Paroxetine; *N*-[2-[4-(2-methoxyphenyl)-1-piperazinyl]ethyl]-*N*-(pyridinyl)cyclohexanecarboxamide (WAY-100635); 5-HT_{1A} receptor; 8-Hydroxy-2-(di-*n*-propylamino)tetralin (8-OH-DPAT) (Hughes, Z.A. (510) 49)

Serotonin receptor subtype

Serotonin; Spinal antinociception; Acetylcholine release (Kommallage, M. (509) 127)

Serotonin reuptake transporter inhibitor

Morphine withdrawal syndrome; Neonatal rat; Naloxone (Wu, C.-C. (512) 37)

Serotonin syndrome

Gastric pentadecapeptide BPC 157; Pargyline/L-tryptophan; 5-HT_{2A} receptor antagonism; (Rats) (Boban Blagaic, A. (512) 173)

Serotonin transporter

Genetics; Alcohol dependence; Addiction; Environment; Plasticity; Imaging (Lesch, K.-P. (526) 113)

Aggression; Genetics; Monoamine oxidase A; 5-hydroxyindoleacetic acid; Microdialysis; (Monkey); (Mice); (Rat) (Francesco Ferrari, P. (526) 259)

Sexual behaviour

Aggression; Neural mechanism; c-Fos; Serotonin; Pharmacology; Male (Rat) (Veening, J.G. (526) 226)

SK9 cells

Melanocortin receptor; Radioligand binding; Cooperativity; Melanocyte stimulating hormone; Calcium (Kopanchuk, S. (512) 85)

[³⁵S]GTPγS binding

Cholestasis; Pruritus; Opioid system; (Rat) (Inan, S. (518) 182)

Serotonin; 5-HT_{1A} receptor; G protein; Cerebral cortex (Odagaki, Y. (521) 49)

GABA_B receptor; voluntary alcohol consumption; (sP) Sardinian alcohol-preferring and (sNP) Sardinian alcohol-nonpreferring (Rat) (Castelli, M.P. (523) 67)

Sheep gallbladder smooth muscle

Electrical field stimulation; Rho kinase; Y-27632 (Şahan-Fırat, S. (528) 169)

Sheep Purkinje fibre

Phencyclidine; 'Ecstasy'; Cocaine; Cocaethylene; Δ^9 -tetrahydrocannabinol; (+)-methamphetamine; Morphine (Sheridan, R.D. (511) 99)

Shock avoidance

Muscimol; Pyruvate; Glucose; Metabolism; Spontaneous alternation; Hippocampus (Krebs, D.L. (520) 91)

Short-circuit current

Transmural electrical stimulation; 5-hydroxytryptamine₃ receptor; Muscarinic cholinergic receptor; Intestinal mucosa (Townsend IV, D. (519) 285)

Short-term memory

5-HT_{1A} receptor; Fluoxetine; Buspirone; 8-OH-DPAT (8-hydroxy-di-*n*-propylamino tetralin); WAY100635 (Fernández-Pérez, S. (522) 78)

Sho-saiko-to, (SST)

Wogonin; CD4/CD8 ratio; CD8⁺ T-cell; Proliferation (Ohtake, N. (507) 301)

SHRs (spontaneously hypertensive rats)

Rilmidenidine; Clonidine; α -Methylnorepinephrine; Rostral ventrolateral medulla; Nucleus tractus solitarius; c-Jun (Wang, X. (514) 191)

SH-SY5Y

Olomoucine; Roscovitine; Caspase; Jurkat (Ribas, J. (524) 49)

Sibutramine

Obesity; Overweight; Energy balance; Oleoyl-estrone; Dexfenfluramine; Phentermine (Ferrer-Lorente, R. (513) 243)

Sigma receptor

Hippocampus; G protein; Pregnenolone sulfate; Presynaptic receptor; Steroid (Schiess, A.R. (518) 22)

Signal transducer and activator of transcription-1

Quercetin; Inducible nitric oxide synthase; Nuclear factor- κ B; Heme oxygenase-1; Microglia (Chen, J.-C. (521) 9)

Signal transduction

ATPase; Caloxin 2A1; Erythrocyte; Homeostasis (Pande, J. (508) 1)

Cerebral circulation; Cyclic nucleotide; Nitric oxide (Baranov, D. (525) 112)

Sildenafil

Molsidomine; Pulmonary hypertension; Acetylcholine; Atrial natriuretic peptide; (Chronic hypoxic rats) (Andersen, C.U. (510) 87)

Cyclic GMP; Protein kinase G; K⁺ channel; Peripheral processing (Ambriz-Tututi, M. (512) 121)

Cerebral artery; Phosphodiesterase 5; Human; Migraine (Kruuse, C. (521) 105)

Acute pulmonary embolism; L-arginine; Nitric oxide; Phosphodiesterase-5 inhibitor; Pulmonary hypertension (Souza-Silva, A.R. (524) 126)

Cyclic GMP; Protein kinase G; K⁺ channel; Spinal processing (Araiza-Saldaña, C.I. (527) 60)

Sildenafil citrate

SCH 51866; Cyclic-nucleotide-gated-channel; cGMP-dependent protein kinase I α ; K⁺-efflux (Lusche, D.F. (513) 9)

Single unit recording

Locus coeruleus; Morphine; Synchronous activity; Excitatory amino acid (Zhu, H. (528) 73)

Sinoaortic denervation

β_1 -Adrenoceptor; β_4 -Adrenoceptor; CGP12177 (Santos, I.N. (513) 109)

Sino-atrial

Calcium-calmodulin; Hyperpolarization-activated channel; cAMP (Chatelier, A. (521) 29)

Sirolimus

Paclitaxel; Restenosis; Cell proliferation; Cell cycle (Parry, T.J. (524) 19)

Site-directed mutagenesis

Binding site; G protein-coupled receptor; Nonpeptide antagonist; Tachykinin NK₂ receptor β isoform (Meini, S. (516) 104)

Binding site; Cyclic peptide; G protein-coupled receptor; Icatibant (Cucchi, P. (528) 7)

Skeletal muscle

Ca²⁺-induced Ca²⁺ release; Bupivacaine enantiomers; Stereoselectivity; Ryanodine receptor; Skinned fiber (Ibarra M., C.A. (512) 77)

Skeletal muscle, frog

P2 receptor; P1 receptor; Temperature dependency (Ziganshin, A.U. (509) 187)

SKF83959

cAMP; Caudate; Rotation; Dopamine D2 receptor; *c-fos*; Striosome (Wirtshafter, D. (528) 88)

Skin inflammation

Protium kleinii; Burseraceae; α -Amyrin; Triterpenes; Ear oedema (Otuki, M.F. (507) 253)

Skinned fiber

Ca²⁺-induced Ca²⁺ release; Bupivacaine enantiomers; Stereoselectivity; Ryanodine receptor; Skeletal muscle (Ibarra M., C.A. (512) 77)

Sleep

Tetrandrine; Pentobarbital; 5-Hydroxytryptophan; Serotonergic system (Zhao, X. (506) 101)

Interferon alpha; Beta; Gamma; Immune; Endocrine; Food; Temperature; Glucose sensitive; Opiate; Naloxone (Dafny, N. (523) 1)

Sleep-enhancing action

Flavonoid; Hesperidin; Diazepam; Synergy; Sedation (Fernández, S.P. (512) 189)

Sleep-waking cycle

Cortistatin; Circadian rhythm; Memory evocation; cAMP (Méndez-Díaz, M. (507) 21)

Slope of displacement

5-HT₃ serotonin receptor binding; NG 108-15 cell; Allosteric modulation; Verapamil; Ifenprodil (Maksay, G. (514) 17)

Small interfering RNA

Antisense oligonucleotide; Food intake; Melanocortin; (Rat) (Senn, C. (522) 30)

Small intestinal transit

Omeprazole; Tegaserod (Cowan, A. (517) 127)

Smoking

Nicotine; Desensitization; Acetylcholine; Nicotinic receptor; Phosphorylation (Marszalec, W. (514) 83)

Smooth muscle

Endothelium; Endothelium-derived hyperpolarizing factor; Hydrogen peroxide; Membrane potential (Gluais, P. (513) 219)

Smooth muscle α -actin

Dimer of platelet-derived growth factor-B; Collagen; Endothelin-1; L-Methionine; L-Cysteine (Matsui, H. (509) 31)

Smooth muscle cell

Endothelin-1; Resveratrol; Angiotensin II; Reactive oxygen species; ERK (extracellular signal-regulated kinase) (Chao, H.-H. (515) 1)

Acetylcholine; Neurotransmitter; K_{ATP} channel; Patch clamp; Stable transfection (Hanna, S.T. (515) 34)

SNAP

Dephosphatase; cGMP; GEA 3175; Nitric oxide; Protein phosphorylation; Relaxation (Persson, A.A. (521) 124)

SNC80

δ -Opioid receptor agonist; K^+ channel; Peripheral antinociception; PGE₂ (Pacheco, D.F. (512) 23)

Social

Agonistic; Corticosterone; Cortisol; Serotonin; Stress (Summers, C.H. (526) 21)

Social conflict

Dexmedetomidine; Atipamezole; Animal behaviour; Aggression (Votava, M. (523) 79)

Social hierarchy

Animal model of depression; Chronic antidepressant treatment; Agonistic behaviour; Resident–intruder; Suicide ideation (Mitchell, P.J. (526) 147)

Sodium channel

Toluene; Local anaesthetic; *Xenopus* oocyte; β_1 subunit (Gauthereau, M.Y. (528) 17)

Pain; Dorsal root ganglion; Nociceptor; Deltamethrin (Dekker, L.V. (528) 52)

Sodium channel activator

β -Adrenoceptor antagonist; Nitrergic nerve; Nitric oxide; *Tityus serrulatus* venom (Teixeira, C.E. (519) 146)

Sodium tungstate

Insulin; Somatostatin; Rat pancreas (Silvestre, R.A. (519) 127)

Solifenacin

Muscarinic receptor antagonist; Detrusor overactivity; Cerebral infarction (Suzuki, M. (512) 61)

Soluble guanylate cyclase

Heme; Nitric oxide; cGMP; BAY 58-2667; BAY 41-2272; YC-1 (Schmidt, P.M. (513) 67)

Soluble guanylate cyclase activator

YC-1; DETA/NO; Nitric oxide donor; Myometrium (Demirkoprulu, N. (517) 240)

Soluble guanylyl cyclase

Human pulmonary artery; Human bronchiole; Nitric oxide donor; Large-conductance calcium-activated potassium channel (Elmedal, B. (516) 78)

Soman

Acetylcholine; HI-6; HLö-7; Oxime; Pralidoxime; Toxogonin (Øydvin, O.K. (516) 227)

Acetylcholinesterase; Anticonvulsant; Epileptiform activity; Hippocampal slice; Organophosphate (Harrison, P.K. (518) 123)

Transdermal patch; Physostigmine; Procyclidine; Mortality; Brain injury; Incapacitation (Kim, W.-S. (525) 135)

Soman poisoning

Pralidoxime derivative; Sedative effect; Anticonvulsant effect; Acetylcholine; Non-reactivation effect (Loke, W.-K. (521) 59)

Somatostatin

Sodium tungstate; Insulin; Rat pancreas (Silvestre, R.A. (519) 127)

FK962; Memory; Passive avoidance; Water maze; Whole-cell patch-clamp (Tokita, K. (527) 111)

(sP) Sardinian alcohol-preferring and (sNP) Sardinian alcohol-non-preferring (Rat)

GABA_B receptor; [³⁵S]GTP γ S binding; voluntary alcohol consumption (Castelli, M.P. (523) 67)

Spanish red wine

Composition; Polyphenol; Vasodilation; Rat aorta; Endothelium (Padilla, E. (517) 84)

Spermine

Cortical slice; Epileptiform activity; NMDA receptor; N¹-dansyl-spermine; DBA/2 mice (Kirby, B.P. (524) 53)

Spinal

Dmt (2',6'-dimethyl-L-tyrosine); Endomorphin; Antinociception; Supraspinal; Antagonist (Jinsmaa, Y. (509) 37)

Spinal antinociception

Serotonin; Serotonin receptor subtype; Acetylcholine release (Kommallage, M. (509) 127)

GABA; GABA receptor; Acetylcholine; Spinal pain transmission (Kommallage, M. (525) 69)

Spinal cord

Antinociception; Tachykinin NK₁ receptor antagonist; Substance P; Peripheral inflammation; 4 β -Phorbol-12-myristate-13-acetate (Tsuchiya, M. (507) 29)

Neuropathic pain; Cannabinoid; Cannabinoid CB₁ receptor; Cannabinoid CB₂ receptor; Vanilloid TRPV-1 receptor; Fos (Rodella, L.F. (508) 139)

Cannabinoid CB₁ receptor; GABA_B receptor; Antinociceptive; (Rat) (Naderi, N. (514) 159)

Analgesia; Acute pain; Inflammation; 5-Hydroxytryptamine_{2A} receptor antagonist (Nishiyama, T. (516) 18)

c-Fos; Nitric oxide synthase; Pain; Plasticity (Pilyavskii, A.I. (521) 70)

Bradykinin B₁ receptor; Antinociception; (Rat) (Conley, R.K. (527) 44)

Spinal pain transmission

GABA; GABA receptor; Acetylcholine; Spinal antinociception (Kommage, M. (525) 69)

Spinal processing

Sildenafil; Cyclic GMP; Protein kinase G; K⁺ channel (Araiza-Saldaña, C.I. (527) 60)

Spironolactone

Aminoglutethimide; Carbamazepine; Diphenylhydantoin; Amygdala-kindled seizures (Borowicz, K.K. (516) 212)

Spleen

α₁-adrenoceptor; Conotoxin p-TIA; Vas deferens; Aorta (Lima, V. (508) 183)

Splenocyte proliferation

Tripterine; Systemic lupus erythematosus; Chromatin; Autoantibody; Cytokine (Li, H. (512) 231)

Spontaneous alternation

Muscimol; Pyruvate; Glucose; Metabolism; Shock avoidance; Hippocampus (Krebs, D.L. (520) 91)

Spontaneously hypertensive rat

GABA (γ-aminobutyric acid); Antihypertensive; Kidney; Renal denervation; Renin (Hayakawa, K. (524) 120)

Spontaneously Hypertensive rat

NO (nitric oxide); Voltage-sensitive Ca²⁺-channel (Lewis, S.J. (528) 144)

SR141716

Cannabidiol; Cannabinoid; Cannabinoid receptor; SR144528; Intestinal motility (Fride, E. (506) 179)

SR 142801

Forced swim test; Depression; Neurokinin receptor antagonist; CP-96,345; SR 48968 (Dableh, L.J. (507) 99)

SR 48968

Forced swim test; Depression; Neurokinin receptor antagonist; CP-96,345; SR 142801 (Dableh, L.J. (507) 99)

SR142,801

Cigarette smoke; Tachykinins; Tachykinin NK receptors; SSR240,600; SR48,968 (Tagawa, A. (507) 223)

SR144528

Cannabidiol; Cannabinoid; Cannabinoid receptor; SR141716; Intestinal motility (Fride, E. (506) 179)

SR48,968

Cigarette smoke; Tachykinins; Tachykinin NK receptors; SSR240,600; SR142,801 (Tagawa, A. (507) 223)

SSAO (Semicarbazide-sensitive amine oxidase)

Monoamine oxidase; Diabetes; Insulin; Adipose tissue (Visentin, V. (522) 139)

SSR240,600

Cigarette smoke; Tachykinins; Tachykinin NK receptors; SR48,968; SR142,801 (Tagawa, A. (507) 223)

St. John's wort

Hypericin; Angiogenesis inhibitor; Bovine endothelial cells (Martínez-Poveda, B. (516) 97)

ST-91 (2-[2,6-diethylphenylamino]-2-imidazole)

Ultrasonic vocalization; α₂-adrenoceptor; Clonidine (Krall, C.M. (517) 200)

Stable transfection

Acetylcholine; Neurotransmitter; K_{ATP} channel; Patch clamp; Smooth muscle cell (Hanna, S.T. (515) 34)

Startle

Light–dark box; Anxiety; Nicotine; Withdrawal; Prepulse inhibition; (Mouse) (Jonkman, S. (516) 40)

Startle amplitude

Brown Norway rat; Schizophrenia; Sensorimotor gating; Wistar-Kyoto rat (Conti, L.H. (507) 125)

Statin

Arthritis; Inflammation; Nociception; Cytokine (Barsante, M.M. (516) 282)

ABC transporter; Antiobesity drug; Cardiovascular disease; Cardiovascular drug; Drug-metabolizing enzyme; Drug target; Inflammation; Nutrigenetics; Nutrigenomics; Obesity; Pharmacodynamic; Pharmacogenetic (Siest, G. (527) 1)

Stem cell

Rosiglitazone; Myeloprotection; CFU-GM (Granulocyte–macrophage progenitor cell); Neutropenia; Insulin (Djazayeri, K. (522) 122)

Stereoselectivity

Ca²⁺-induced Ca²⁺ release; Bupivacaine enantiomers; Ryanodine receptor; Skeletal muscle; Skinned fiber (Ibarra M., C.A. (512) 77)

Stereotaxic surgery

Cyclooxygenase; Hippocampus; Morris water maze (Sharifzadeh, M. (511) 159)

Steroid

Hippocampus; G protein; Pregnenolone sulfate; Presynaptic receptor; Sigma receptor (Schiess, A.R. (518) 22)

Steroid regulation

Dopamine transport; Dopamine autoreceptor; G-protein (Thompson, T.L. (511) 121)

Steroid sulfatase

Aggression; Quantitative trait locus; Pseudo-autosomal region; Y-chromosome (Roubertoux, P.L. (526) 172)

Stomach

Caffeic acid phenethyl ester; Acetylcholinesterase inhibitor; Gastric acid secretion (Borrelli, F. (521) 139)

Store operated Ca²⁺ entry

Rat portal vein; Capacitative Ca²⁺ entry; Cyclopiazonic acid; Niflumic acid (Burt, R.P. (510) 97)

Strain difference

5-HT_{1A} receptor; Stress; Blood pressure; Heart rate; Anxiolytic (van den Buuse, M. (507) 187)

Streptozotocin

Diabetes; Diallyl trisulfide; Garlic oil; Glycemic control; (Rat) (Liu, C.-T. (516) 165)

D2 receptors; Haloperidol; γ-hydroxybutyric acid; Dizocilpine (Sevak, R.J. (517) 64)

Streptozotocin-diabetes

Colon; Ileum; Calcium; Motility; (rat) (Forrest, A. (509) 77)

Streptozotocin-induced diabetes

Oxidative stress; Nitric oxide scavenger; Cardiovascular dysfunction (Hutchings, S.R. (528) 132)

Stress

5-HT_{1A} receptor; Blood pressure; Heart rate; Anxiolytic; Strain difference (van den Buuse, M. (507) 187)

MM-77; Anxiety; 5-HT_{1A} receptor; (Mouse) (Alfredo, B.-A. (508) 155)

Corticotropin releasing factor; Behavior; Amygdala; Antagonist; (Rat) (Gehlert, D.R. (509) 145)

ACTH (adrenocorticotrophic hormone); Corticosterone; GABA; Paraventricular nucleus; L-838,417; Diazepam; Zolpidem; Zopiclone; (Mouse) (Mikkelsen, J.D. (519) 223)

Agonistic; Corticosterone; Cortisol; Serotonin; Social (Summers, C.H. (526) 21)

Cocaine; Conditioned drug cues; Extinction; Heroin; Incubation; Reinstatement; Relapse; Review (Bossert, J.M. (526) 36)

Stressor

Electric foot-shock; Corticosterone; Clomipramine; Depression; Gender; Forced swim test (Consoli, D. (520) 100)

Striatopallidal transmission

Adenosine receptor; Adenosine antagonist; Adenosine/Dopamine interaction; Dopamine receptor; GABA transmission (Floran, B. (520) 43)

Striatum

GBR 12935 derivative; Dopamine transporter; Monoamine uptake; Hydrogen bonding; Cocaine antagonist; (Rat) (Zhen, J. (506) 17)

Caffeine; Oxotremorine-M; Turning behavior; Adenosine/acetylcholine interaction (Núñez-Taltavull, J.F. (506) 71)

Dopamine; Eticlopride; Globus pallidus; Microdialysis; Neuropeptide; SCH 23390; Substantia nigra (Frankel, P.S. (522) 47)

Striosome

cAMP; Caudate; Rotation; Dopamine D2 receptor; *c-fos*; SKF83959 (Wirtshafter, D. (528) 88)

Stroke

Neuroprotection; Apoptosis; Thiobarbituric acid reacting substance; Oxygen radical (Feng, Y. (507) 77)

AMPA receptor antagonist; Newborn mouse; Interleukin-1 β ; Motoneuron; GYKI 52466; GYKI 53405; EGIS-8332; EGIS-10608 (Gressens, P. (519) 58)

Structure activity relationship

Murine GABA transporter (mGAT1-4); GABA (γ -aminobutyric acid) uptake; Subtype selectivity (Kragler, A. (519) 43)

Subarachnoid hemorrhage

Rat basilar artery; Vasopressin; Vasopressin V₁ receptor; Endothelium-dependent contraction (Nishihashi, T. (513) 93)

Subjective effect

Drug discrimination; Reward; Nicotine; Ethanol; (Rat) (Le Foll, B. (519) 96)

Substance abuse

Cocaine; Serotonin; Dopamine; Nucleus accumbens; Microdialysis (Andrews, C.M. (508) 123)

Nicotine; Cocaine; Behavioral conditioning; Development; Rat (McMillen, B.A. (509) 161)

Substance P

Antinociception; Tachykinin NK₁ receptor antagonist; Spinal cord; Peripheral inflammation; 4 β -Phorbol-12-myristate-13-acetate (Tsuchiya, M. (507) 29)

Mustard oil; Neurogenic inflammation; CGRP; Mouse (Grant, A.D. (507) 273)

Bradykinin; Citric acid and cough (El-Hashim, A.Z. (513) 125)

Substantia nigra

Ventral tegmental area; Serotonin; Extracellular recording; Antipsychotic drug (Olijslagers, J.E. (520) 77)

Dopamine; Eticlopride; Globus pallidus; Microdialysis; Neuropeptide; SCH 23390; Striatum (Frankel, P.S. (522) 47)

Subtype selectivity

Murine GABA transporter (mGAT1-4); GABA (γ -aminobutyric acid) uptake; Structure activity relationship (Kragler, A. (519) 43)

 β_1 subunit

Toluene; Sodium channel; Local anaesthetic; *Xenopus* oocyte (Gauthereau, M.Y. (528) 17)

Suicide ideation

Animal model of depression; Chronic antidepressant treatment; Agonistic behaviour; Social hierarchy; Resident–intruder (Mitchell, P.J. (526) 147)

Sulfatide

Leukocyte; L-selectin; Platelet; P-selectin; Restenosis; Thrombosis (Shimazawa, M. (520) 118)

Sulfonylurea

KCP256; K_{ATP} channel; Insulin secretion; MIN6 cell; Pancreatic islet (Mori, K. (528) 176)

Sulphonylurea receptor

Protopine; K_{ATP} channel; Heterologous expression; BK_{Ca} channel (Jiang, B. (506) 93)

Sulpiride

5-HT_{1B} receptor ligand; *p*-Chlorophenylalanine; Idazoxan; Forced swimming test in mice (Tatarczyńska, E. (516) 46)

Tail suspension test; Fluvoxamine; Antidepressant; WAY100635 (Ago, Y. (520) 86)

Sumatriptan

Emesis; Nausea; Migraine; Resiniferatoxin; Vanilloid; Dihydroergotamine; *Suncus murinus* (Cheng, F.H.M. (508) 231)

Suncus murinus

Emesis; Nausea; Migraine; Resiniferatoxin; Vanilloid; Sumatriptan; Dihydroergotamine (Cheng, F.H.M. (508) 231)

Superoxide

Nitric oxide; *Tumor necrosis factor alpha*; Aminoguanidine; Endotoxin (Lin, H.-C. (508) 249)

Coronary circulation; Endothelial function; Myocardial infarction; Remodeling; Vasodilatation; Nitric oxide (Berges, A. (516) 60)

Erectile dysfunction; Cholesterol; NADPH oxidase (Shukla, N. (517) 224)

Superoxide anion

Nitrotyrosine; Superoxide dismutase; NADPH oxidase; Endothelial nitric oxide synthetase; Type II diabetes (Bitar, M.S. (511) 53)

N-Acetylcysteine; Nitric oxide; Nitric oxide store; Organic nitrate; Tolerance (Sarr, M. (513) 119)

Superoxide anion generation

N-formylmethionyl peptide; Neutrophil; human; Chemotaxis; Lysozyme release; Receptor binding (Cavicchioni, G. (512) 1)

Superoxide dismutase

Superoxide anion; Nitrotyrosine; NADPH oxidase; Endothelial nitric oxide synthetase; Type II diabetes (Bitar, M.S. (511) 53)

Suprachiasmatic

Circadian; Neurokinin; Raphe; Depression (Gannon, R.L. (527) 86)

Supraspinal

Dmt (2',6'-dimethyl-L-tyrosine); Endomorphin; Antinociception; Spinal; Antagonist (Jinsmaa, Y. (509) 37)

Surrogate ligand

Nociception; Receptor (Nothacker, H.-P. (519) 191)

Survival

Septic shock; Endothelin; Bosentan; Organ injury (Iskit, A.B. (506) 83)

Survival signaling

Hippocampus; Excitotoxicity; FAK; MAPK (Karanian, D.A. (508) 47)

SV2A

Levetiracetam; Rat spinal cord; Binding (Lambeng, N. (520) 70)

Swim stress

Convulsions; ($\pm$)-8-hydroxy-2-(di-*n*-propylamino) tetralin hydrobromide (8-OH-DPAT); WAY-100635; 1-(2,5-dimethoxy-4-iodophenyl)-2-amino-propane (DOI); Ketanserin (Perićić, D. (527) 105)

Sympathetic nerve

Bombesin; Thromboxane A₂; Prostaglandin E₂; Noradrenaline; Adrenal gland (Yokotani, K. (512) 29)

Sympathetic nervous system

Blood pressure; Glucose; Insulin; Renin angiotensin system; Vasodilation (Villafañá, S. (506) 143)

Cannabinoid CB₁ receptor; P2X receptor; NESS 0327 (Tambaro, S. (525) 150)

Synapsin I

Cerebral ischemia; Microsphere; BDNF (Ando, T. (507) 49)

Synchronous activity

Locus coeruleus; Morphine; Single unit recording; Excitatory amino acid (Zhu, H. (528) 73)

Synergy

Flavonoid; Hesperidin; Diazepam; Sedation; Sleep-enhancing action (Fernández, S.P. (512) 189)

Synoviocytes

COX (cyclooxygenase); GM-CSF (granulocyte macrophage-colony stimulating factor); NO-NSAIDs (nitric oxide-donating non-steroidal anti-inflammatory drugs); PGE₂ (prostaglandin E₂) (Zacharowski, P. (508) 7)

Systemic lupus erythematosus

Tripterine; Chromatin; Autoantibody; Cytokine; Splenocyte proliferation (Li, H. (512) 231)

T cell

Leukocyte; cGMP-dependent protein kinase; Adhesion molecule; Tumor necrosis factor- α ; E-selectin; ICAM-1 (intercellular adhesion molecule 1) (Wong, D. (514) 91)

T cell epitope

Cry j 2; Pollinosis; Oral tolerance; Immunoprophylaxis (Murasugi, T. (510) 143)

Tachykinin NK receptors

Cigarette smoke; Tachykinins; SSR240,600; SR48,968; SR142,801 (Tagawa, A. (507) 223)

Tachykinin NK₁ receptor

Cisplatin; Nausea; Emesis; 5-HT₃ receptor; Anti-emetic (Lau, A.H.Y. (506) 241)

Histamine; Histamine H₁ receptor; NMDA receptor; Nociceptive response; Histidine decarboxylase gene knockout mouse (Yoshida, A. (522) 55)

Tachykinin NK₁ receptor antagonist

Antinociception; Substance P; Spinal cord; Peripheral inflammation; 4 β -Phorbol-12-myristate-13-acetate (Tsuchiya, M. (507) 29)

Tachykinin NK₂ receptor β isoform

Binding site; G protein-coupled receptor; Nonpeptide antagonist; Site-directed mutagenesis (Meini, S. (516) 104)

Tachykinins

Cigarette smoke; Tachykinin NK receptors; SSR240,600; SR48,968; SR142,801 (Tagawa, A. (507) 223)

Tacrine

Human nicotinic acetylcholine receptor; Galanthamine; Scopolamine; *Xenopus laevis* oocyte; Two-microelectrode voltage clamp (Smulders, C.J.G.M. (509) 97)

Tacrolimus

Neutrophil; MCP-1 (Monocyte chemoattractant protein-1); Dexamethasone; Acute lung injury; Cyclosporin A (Koshika, T. (515) 169)

Tacrolimus (FK506)

Vascular reactivity; Endothelin; Isolated perfused kidney and mesentery; Bosentan (Tekes, E. (517) 92)

Tactile allodynia

Cannabinoid; Postoperative pain (LaBuda, C.J. (527) 172)

Tail suspension

Curcumin; Forced swimming; Locomotor activity; Antidepressant-like effect; Monoamine; Monoamine oxidase; Mice (Xu, Y. (518) 40)

Tail suspension test

Sulpiride; Fluvoxamine; Antidepressant; WAY100635 (Ago, Y. (520) 86)

Tau

Alzheimer disease; Calyculin A; Phosphorylation; Melatonin (Li, X.-C. (510) 25)

Tectorigenin

Reactive oxygen species; Antioxidant enzyme (Kang, K.A. (519) 16)

Tegaserod

Omeprazole; Small intestinal transit (Cowan, A. (517) 127)

Telomeric state

Apoptosis; TRF1; TRF2; Reactive oxygen species; Arsenic trioxide (Zhang, Y. (516) 1)

Temazepam

Diazepam; Withdrawal sign; Adenosine agonist (Listos, J. (523) 71)

Temperature

Interferon alpha; Beta; Gamma; Immune; Endocrine; Sleep; Food; Glucose sensitive; Opiate; Naloxone (Dafny, N. (523) 1)

Temperature dependency

Skeletal muscle, frog; P2 receptor; P1 receptor (Ziganshin, A.U. (509) 187)

Terguride

Pergolide; Cabergoline; Bromocriptine; Lisuride; Valvular heart disease; 5-HT_{2B} receptor agonism (Jähnichen, S. (513) 225)

Terikalant

Cellular electrophysiology; Antiarrhythmic action; Multichannel block (Biliczki, P. (510) 161)

Tetraethylammonium

4-aminopyridine; Gastrointestinal motility; Gastric acid secretion (Dong, D.-L. (509) 179)

Tetrahydrocannabinol

Anandamide; Cannabinoid; Cross-tolerance; Methanandamide; Tolerance (Wiley, J.L. (510) 59)

 Δ^9 -tetrahydrocannabinol

Sheep Purkinje fibre; Phencyclidine; 'Ecstasy'; Cocaine; Cocaethylene; (+)-methamphetamine; Morphine (Sheridan, R.D. (511) 99)

Tetrahydrodeoxycorticosterone

Cortisol; 11-Deoxycortisol; GABA_A receptor; Neuroactive steroid; 3 α ,5 β -Reduced cortisol (Penland, S.N. (506) 129)

Tetramethylpyrazine

Cystic fibrosis transmembrane conductance regulator; cAMP; K⁺ channel; Membrane permeabilization; Caco-2 cell line (Zhu, J.X. (510) 187)

Tetrandrine

Sleep; Pentobarbital; 5-Hydroxytryptophan; Serotonergic system (Zhao, X. (506) 101)

Tetrazolephtalimide derivative

LASSBio 552; Leukotriene; Eosinophil; Allergy (Neves, J.S. (511) 219)

Tetrodotoxin-resistant sodium channel

Dorsal root ganglion; Sensory neuron; Tetrodotoxin-sensitive sodium channel; Ralfinamide; NW-1029 (Stummann, T.C. (510) 197)

Tetrodotoxin-sensitive sodium channel

Dorsal root ganglion; Sensory neuron; Tetrodotoxin-resistant sodium channel; Ralfinamide; NW-1029 (Stummann, T.C. (510) 197)

TGF- β

Hypoxic cor pulmonale; Angiotensin II-receptor blocker; Olmesartan medoxomil; Hypoxia; Remodeling; Collagen; Brain natriuretic peptide (Nakamoto, T. (528) 43)

Thapsigargin

TRPC1; TRPC5; Capacitative Ca²⁺ entry; Human epidermoid carcinoma A431 cell; Uridine 5'-triphosphate (Yoshida, J. (510) 217)

Nitric oxide; Vascular reactivity; Liver cirrhosis; Methoxamine; Bile duct ligation; Calcium (Atucha, N.M. (525) 117)

 Δ^9 -THC

Conditioned place preference; i.c.v. self-administration (Braid, D. (506) 63)

Fentanyl; Buprenorphine; Antinociception; Transdermal; (Guinea pig) (Cichewicz, D.L. (525) 74)

THC (Tetrahydrocannabinol)

Cannabinoids; Anandamide; Aorta; Endothelium; Vanilloid (O'Sullivan, S.E. (507) 211)

The luteinizing hormone receptor

Insulin resistance; Ovarian hormone (Tamura, K. (513) 151)

Thiazolidinedione

PPAR γ ; MCP-1; CCR2; Macrophage; Insulin resistance (Tanaka, T. (508) 255)

Thinner

Learning; Memory; NCAM; (Rat) (Baydas, G. (512) 181)

Thioacetamide

Diabetes; Liver; NF- κ B; Tissue repair (Devi, S.S. (523) 127)

Thiobarbituric acid reacting substance

Stroke; Neuroprotection; Apoptosis; Oxygen radical (Feng, Y. (507) 77)

Thioridazine

Olanzapine; Clozapine; Acetylcholine; Muscarinic receptors (Johnson, D.E. (506) 209)

THP-1 cell line

Cyclooxygenase-2; Inflammation; Carrageenan-induced paw edema; Air pouch model (Yin, L.-L. (520) 172)

Thrombin

Antiplatelet agent; Thromboxane A₂ (Wu, C.-C. (527) 37)

Thrombin generation

Disseminated intravascular coagulation model; Venous thrombosis model; Factor Xa inhibitor; Thrombin inhibitor; Protein C (Furugohri, T. (514) 35)

Thrombin inhibitor

Disseminated intravascular coagulation model; Venous thrombosis model; Factor Xa inhibitor; Protein C; Thrombin generation (Furugohri, T. (514) 35)

Thrombogenic effect

17 β -Aminoestrogen; Estradiol; Anticoagulant effect (Lemini, C. (510) 229)

Thrombosis

Leukocyte; L-selectin; Platelet; P-selectin; Restenosis; Sulfatide (Shimazawa, M. (520) 118)

Thromboxane A₂

Bombesin; Prostaglandin E₂; Noradrenaline; Adrenal gland; Sympathetic nerve (Yokotani, K. (512) 29)

Antiplatelet agent; Thrombin (Wu, C.-C. (527) 37)

Tilidine

Nortilidine; Opioid; Receptor; Nociceptin (Thierry, C. (506) 205)

Tissue inhibitor of metalloproteinase

Benz[*f*]indole-4,9-dione; 2-Amino-3-ethoxycarbonyl-*N*-methylbenz[*indole*-4,9-dione; Extracellular matrix; Matrix metalloproteinase; Membrane type 1-matrix metalloproteinase (Park, H.J. (527) 31)

Tissue repair

Diabetes; Liver; NF- κ B; Thioacetamide (Devi, S.S. (523) 127)

***Tityus serrulatus* venom**

β -Adrenoceptor antagonist; Nitrenergic nerve; Nitric oxide; Sodium channel activator (Teixeira, C.E. (519) 146)

3T3-L1

Anandamide; PPAR γ ; Adipocyte (Bouaboula, M. (517) 174)

TNF- α

Y-40138; IFN- γ ; IL-4; Chemokine; Pentoxifylline; Anti-TNF- α antibody; Concanavalin A; Hepatitis (Fukuda, T. (523) 137)

TNF- α knockout mice

Tumor necrosis factor- α (TNF- α); Cytochrome *P*450 (CYP); P-glycoprotein; Endotoxin (Miyoshi, M. (507) 229)

Tolbutamide

Oral hypoglycemic agent; Nitric oxide; Microsphere; Regional blood flow; Otsuka Long–Evans Tokushima Fatty rat (Iwase, M. (518) 243)

Tolerance

Anandamide; Cannabinoid; Cross-tolerance; Methanandamide; Tetrahydrocannabinol (Wiley, J.L. (510) 59)

Clomethiazole; Body temperature; Pharmacodynamic interaction; GABA_A (γ -Aminobutyric acid_A) receptor; 5-HT_{1A} (5-Hydroxytryptamine_{1A}) receptor; NMDA (*N*-methyl-D-aspartate) receptor; Hypothermia (Visser, S.A.G. (512) 139)

N-Acetylcysteine; Nitric oxide; Nitric oxide store; Organic nitrate; Super-oxide anion (Sarr, M. (513) 119)

Etizolam; Benzodiazepines; GABA_A receptor; Dependence; Gene expression (Sanna, E. (519) 31)

Drug addiction; Habit; Compulsion; Impulsivity; Sensitization; Allostasis; Prefrontal cortex; Orbitofrontal cortex; Dorsal striatum; Nucleus accumbens (Vanderschuren, L.J.M.J. (526) 77)

Intracerebroventricular; Osmotic minipump; Morphine pellet; Chronic; Naloxone; Withdrawal; (Mice) (Lenard, N.R. (527) 71)

Toluene

Sodium channel; Local anaesthetic; *Xenopus* oocyte; β_1 subunit (Gauthreau, M.Y. (528) 17)

Torsade de pointes

Trazodone; QT-interval; hERG; Polymorphous ventricular tachycardia (Tarantino, P. (510) 75)

Total nitric oxide synthetase

Celecoxib; Rofecoxib; Acetic-acid-induced colitis; Myeloperoxidase; Reduced glutathione (El-Medany, A. (507) 291)

Toxin

Lithium chloride; Place conditioning; Biased conditioning apparatus; Nausea; Long-Evans rat; Open-field (Tenk, C.M. (515) 117)

Toxin-resistant current

Islets of Langerhans; Peptide hormone-release; Cholinergic; Gene inactivation; R-type Ca²⁺ channel (Pereverzev, A. (511) 65)

Toxogonin

Acetylcholine; HI-6; HL δ -7; Oxime; Pralidoxime; Soman (Øydvin, O.K. (516) 227)

Trachea

Urotensin-II; GPR14; UT receptor; BIM-23127; SB-710411; GSK248451; Bronchus (Behm, D.J. (516) 276)

Tramadol

Serotonin; Selective 5-HT_{1A}/5-HT_{1B} receptor antagonist; Antinociception; Hot plate; (Mice) (Rojas-Corrales, M.O. (511) 21)

Unpredictable chronic mild stress; Desipramine; Pindolol; Yohimbine (Yalcin, I. (514) 165)

Transcription

Nicotine; Epibatidine; Tyrosine hydroxylase; Calcium (Gueorguiev, V.D. (506) 37)

Transcription factor

Cyclooxygenase-2; Heat shock factor; Heat shock protein 72; Nuclear factor- κ B (Ialenti, A. (509) 89)

Transdermal

Fentanyl; Buprenorphine; Δ^9 -THC; Antinociception; (Guinea pig) (Cichewicz, D.L. (525) 74)

Transdermal patch

Physostigmine; Procyclidine; Soman; Mortality; Brain injury; Incapacitation (Kim, W.-S. (525) 135)

Transepidermal water loss

Cutaneous barrier disruption; Prostaglandin; Mechanical scratching (Honma, Y. (518) 56)

Transient cerebral ischemia

Free radical scavenger; Long-term potentiation; $\cdot$ OH (hydroxyl radical); NOS (NO synthase); Hippocampus (Otani, H. (512) 129)

Transient evoked emission

Serotonin; Selective serotonin reuptake inhibitor; Auditory measure; Auditory evoked potential; SCAN-A (Gopal, K.V. (520) 59)

Transmembrane domain

γ -Aminobutyric acid; Ethyl 2-(4-bromophenyl)-1-(2,4-dichlorophenyl)-1*H*-4-imidazolecarboxylate (Mascia, M.P. (516) 204)

Transmural electrical stimulation

Short-circuit current; 5-hydroxytryptamine₃ receptor; Muscarinic cholinergic receptor; Intestinal mucosa (Townsend IV, D. (519) 285)

Transporter

OAT; Drug transport; Diuretic; Bumetanide (Kobayashi, Y. (524) 44)

Trapidil

Rho GTP-binding protein; Angioplasty; Protein–serine–threonine kinase; Forskolin (Ishikura, K. (515) 28)

Trazodone

QT-interval; hERG; Polymorphous ventricular tachycardia; Torsade de pointes (Tarantino, P. (510) 75)

Treatment

Alcohol; Relapse prevention; Addiction; Pharmacotherapy (Kiefer, F. (526) 163)

Trequinsin

Phosphodiesterase 3; Cyclic AMP; Formalin test (Torres-López, J.E. (519) 75)

TRF1

Apoptosis; TRF2; Reactive oxygen species; Arsenic trioxide; Telomeric state (Zhang, Y. (516) 1)

TRF2

Apoptosis; TRF1; Reactive oxygen species; Arsenic trioxide; Telomeric state (Zhang, Y. (516) 1)

Triazolam

Flumazenil; Bretazenil; Benzodiazepine; Physical dependence; Precipitated withdrawal; (Baboon) (Weerts, E.M. (519) 103)

2,4,6-Trihydroxyacetophenone

Chenodeoxycholic acid; Cholesterol 7 α -hydroxylase; CYP7A1; HepG2 cell; Induction (Charoenteeraboon, J. (515) 43)

Trimethyl-cyclohexenonic alcohol

Calcium; Fura-2; Long-chain fatty alcohol; Pituitary neural lobe; Primary sensory neuron (Jover, E. (516) 197)

Tripterine

Systemic lupus erythematosus; Chromatin; Autoantibody; Cytokine; Splenocyte proliferation (Li, H. (512) 231)

Triterpenes

Skin inflammation; *Protium kleinii*; Burseraceae; α -Amyrin; Ear oedema (Otuki, M.F. (507) 253)

TrkA (tyrosine kinase A) receptor

Hyperzine A; Oxidative stress; Nerve growth factor; MAP (mitogen-activated protein) kinase (Tang, L.-L. (519) 9)

Troglitazone

Cardiac; Hypertrophy; Diabetes; PPAR γ ; Protein kinase C (Bell, D. (508) 69)

TRPC1

TRPC5; Capacitative Ca²⁺ entry; Human epidermoid carcinoma A431 cell; Thapsigargin; Uridine 5'-triphosphate (Yoshida, J. (510) 217)

TRPC5

TRPC1; Capacitative Ca²⁺ entry; Human epidermoid carcinoma A431 cell; Thapsigargin; Uridine 5'-triphosphate (Yoshida, J. (510) 217)

TRPV1

Vanilloids; Capsaicin; Prostate (Sánchez, M.G. (515) 20)

TRPV1 receptor antagonist

JYL1421 (SC0030); Sensory neuropeptide release; Ca²⁺ accumulation; Wiping test; Hypothermia; Pulmonary chemoreflex (Jakab, B. (517) 35)

TRPV1 (transient receptor potential vanilloid 1)

Allergic airway response; Capsazepine; Ovalbumin (van den Worm, E. (518) 77)

TRPV1 (transient receptor potential vanilloid receptor-1)

Cloning; Dog; Ganglia; FLIPR (fluorescence imaging plate reader); Capsaicin (Phelps, P.T. (513) 57)

T-type Ca²⁺ channel

Ethosuximide; Central sensitization; Pentylentetrazol; Capsaicin; Formalin (Barton, M.E. (521) 79)

Tube formation

Angiogenesis; Endothelial cell; Growth; Migration; MAP kinase (Tsuneki, H. (512) 105)

Tuberomammillary nuclei

Histidine decarboxylase; In situ hybridization; Betahistine dihydrochloride; (Cat) (Tighilet, B. (523) 54)

Tumor growth

Angiogenesis; Secretase; Amyloid precursor protein; Presenilin (Paris, D. (514) 1)

Tumor necrosis factor alpha

Nitric oxide; Aminoguanidine; Superoxide; Endotoxin (Lin, H.-C. (508) 249)

Tumor necrosis factor- α

p38; Interleukin-1; Adjuvant-induced arthritis; Collagen-induced arthritis (Wada, Y. (506) 285)

Tumor necrosis factor- α (TNF- α)

Cytochrome P450 (CYP); P-glycoprotein; Endotoxin; TNF- α knockout mice (Miyoshi, M. (507) 229)

Tumor necrosis factor-alpha

T cell; Leukocyte; cGMP-dependent protein kinase; Adhesion molecule; E-selectin; ICAM-1 (intercellular adhesion molecule 1) (Wong, D. (514) 91)

Mixed lineage kinase; MAP kinase inhibition (Ciallella, J.R. (515) 179)

Tumour necrosis factor- α

Histamine H₄ receptor antagonist; JNJ 7777120; JNJ 10191584; Colitis; Inflammatory bowel disease; Neutrophil (Varga, C. (522) 130)

Turning behavior

Caffeine; Oxotremorine-M; Striatum; Adenosine/acetylcholine interaction (Núñez-Taltavull, J.F. (506) 71)

Two-microelectrode voltage clamp

Human nicotinic acetylcholine receptor; Galanthamine; Scopolamine; Tacrine; *Xenopus laevis* oocyte (Smulders, C.J.G.M. (509) 97)

TXA₂/PGH₂ receptor

Angiotensin II; Eicosanoid; Nitric oxide; Cyclooxygenase; Cytochrome P₄₅₀ epoxygenase (Jerez, S. (520) 127)

Type 1 diabetes

Non-obese diabetic mice; Hyperalgesia; Kinin; Bradykinin B₁ receptor; desArg⁹bradykinin; R-715; R-954 (Gabra, B.H. (514) 61)

Vascular permeability; Plasma extravasation; Bradykinin B₁ receptor (Lawson, S.R. (514) 69)

Type II diabetes

Superoxide anion; Nitrotyrosine; Superoxide dismutase; NADPH oxidase; Endothelial nitric oxide synthetase (Bitar, M.S. (511) 53)

Type IIb Na/Pi cotransporter

JTP-59557; Intestinal Na⁺-dependent Pi transport; Pi absorption (Matsuo, A. (517) 111)

Tyramine

Lamotrigine; Bipolar; Monoamine oxidase inhibition; Moclobemide; 5-hydroxytryptophan (Southam, E. (519) 237)

Tyrosine hydroxylase

Nicotine; Epibatidine; Calcium; Transcription (Gueorguiev, V.D. (506) 37)

Fos; Morphine withdrawal; Heart; Western blot (González-Cuello, A. (506) 119)

Alcohol; *Aph-1b*; APO-SUS; APO-UNSUS; Cocaine; γ -secretase; Self-administration (Ellenbroek, B.A. (526) 251)

U-37883A

ATP-sensitive K⁺ channel; Channel kinetics; Intracellular Ca²⁺-activated large-conductance K⁺ channel (Teramoto, N. (506) 1)

ATP-sensitive K⁺ channels; Channel pore; Voltage-dependent Ca²⁺ channels (Tomoda, T. (524) 1)

U46619

EDHF (Endothelial derived hyperpolarising factor); 14,15 EEZE; Hyperpolarisation; Mesenteric artery; mouse (Harrington, L.S. (506) 165)

Ischemia; Reperfusion; Endothelin; Vasoconstriction; NO (nitric oxide) (García-Villalón, A.L. (509) 165)

UFP-101

N/OFQ (nociceptin/orphanin FQ); R-K, paracetamol; Analgesia; Hot plate test (Sandrini, M. (507) 43)

[Nphe¹,Arg¹⁴,Lys¹⁵]N/OFQ-NH₂; Nociceptin; Orphanin FQ; NOP receptor; Potassium channel; Periaqueductal gray (Chiou, L.-C. (515) 47)

Ulcer healing

COX-2; Prostaglandin; Omeprazole; Misoprostol; Celecoxib (Poonam, D. (519) 277)

Ultrasonic vocalization

α_2 -adrenoceptor; Clonidine; ST-91 (2-[2,6-diethylphenylamino]-2-imidazole) (Krall, C.M. (517) 200)

Uncaria alkaloid

Isorhynchophylline; Isocorynoxine; 5-HT_{2A} receptor-mediated head twitch response; 5-HT_{2A} receptor-mediated current response; *Xenopus* oocyte (Matsumoto, K. (517) 191)

Unconsciousness

GABA_A receptor; General anaesthetic; Knock-in mice; Immobility (Lambert, S. (516) 23)

Unpredictable chronic mild stress

Tramadol; Desipramine; Pindolol; Yohimbine (Yalcin, I. (514) 165)

Up-regulation

Acetylcholinesterase inhibitor; Nicotinic acetylcholine receptor; Neuroprotection; Alzheimer's disease (Kume, T. (527) 77)

Uridine 5'-triphosphate

TRPC1; TRPC5; Capacitative Ca²⁺ entry; Human epidermoid carcinoma A431 cell; Thapsigargin (Yoshida, J. (510) 217)

Urinary bladder

Hydrogen sulfide (H₂S); Capsaicin; Sensory neuron (Patacchini, R. (509) 171)

Epithelial Na⁺ channel; Aldosterone (Burton, T.J. (510) 181)

Urinary excretion

Phenolsulfonphthalein; p-Aminohippurate; Anion exchanger; Brush-border membrane (Itagaki, S. (518) 83)

Urocortin

Corticotropin releasing factor; Mean arterial pressure; Mean circulatory filling pressure; Venous; Capacitance vessel (Abdelrahman, A.M. (510) 107)

Urotensin-II

GPR14; UT receptor; BIM-23127; SB-710411; GSK248451; Trachea; Bronchus (Behm, D.J. (516) 276)

UT receptor

Urotensin-II; GPR14; BIM-23127; SB-710411; GSK248451; Trachea; Bronchus (Behm, D.J. (516) 276)

Uterotrophic effect

17 β -aminoestrogen; Estradiol; Estrogenic effect (Lemini, C. (510) 235)

V79 cell

β -Cyclodextrin; Cytotoxicity; Dehydrocrotonin; Hepatocyte (Corrêa, D.H.A. (510) 17)

Valium

Dopamine; Acetylcholine; Microdialysis; Benzodiazepines; Withdrawal; Flumazenil; (Rat) (Rada, P. (508) 131)

Valsartan

Ischemia; Mitochondria; Heart; Cell biology; Cardioprotection (Monteiro, P. (518) 158)

Valvular heart disease

Pergolide; Cabergoline; Bromocriptine; Lisuride; Terguride; 5-HT_{2B} receptor agonism (Jähnichen, S. (513) 225)

Vanilloid

Cannabinoids; Anandamide; THC (Tetrahydrocannabinol); Aorta; Endothelium (O'Sullivan, S.E. (507) 211)

Emesis; Nausea; Migraine; Resiniferatoxin; Sumatriptan; Dihydroergotamine; *Suncus murinus* (Cheng, F.H.M. (508) 231)

Vanilloid TRPV-1 receptor

Neuropathic pain; Cannabinoid; Cannabinoid CB₁ receptor; Cannabinoid CB₂ receptor; Spinal cord; Fos (Rodella, L.F. (508) 139)

Vanilloids

Capsaicin; TRPV1; Prostate (Sánchez, M.G. (515) 20)

Vas deferens

α_1 -adrenoceptor; Conotoxin ρ -TIA; Spleen; Aorta (Lima, V. (508) 183)

Denervation; Sarco(endo)plasmic reticulum (Ca²⁺-Mg²⁺)ATPase; Plasma membrane (Ca²⁺-Mg²⁺)ATPase; Ryanodine receptor; Calcium (Quintas, L.E.M. (525) 54)

Vascular contractility

High-fat diet; Endothelial dysfunction; Fenofibrate; Hypertriglyceridaemia (Naderali, E.K. (521) 99)

Vascular permeability

Type 1 diabetes; Plasma extravasation; Bradykinin B₁ receptor (Lawson, S.R. (514) 69)

Vascular reactivity

Tacrolimus (FK506); Endothelin; Isolated perfused kidney and mesentery; Bosentan (Tekes, E. (517) 92)

Quinapril; Atorvastatin; Apoptosis; Confocal microscopy; Hypertension; Morphometry (Yang, L. (518) 145)

Nitric oxide; Liver cirrhosis; Methoxamine; Bile duct ligation; Calcium; Thapsigargin (Atucha, N.M. (525) 117)

Vascular relaxation

Receptor subtype; Cholinergic receptor; Deoxycholic acid; Cirrhosis (Khurana, S. (517) 103)

Vascular smooth muscle

Acidosis; ATP-sensitive potassium channel; Human internal mammary artery; pH (Rohra, D.K. (514) 175)

Hypertension; Basal vascular tone; Mitogen-activated protein kinase; Protein kinase C (Kim, J. (514) 209)

17 β -Estradiol; Estrogen (Egami, R. (520) 142)

ATP-sensitive K⁺ channels (Adenosine 5'-triphosphate-sensitive K⁺ channels); Cerebral artery; Vasodilatation; Endothelium; (Rat) (Jansen-Olesen, I. (523) 109)

Vascular smooth muscle cell, human

ERK (extracellular signal regulated kinase); Cyclin D1 expression, (Shukla, N. (509) 21)

Astrapterocarpan; *Astragalus membranaceus*; Platelet-derived growth factor; Cardiovascular disease (Ohkawara, S. (525) 41)

Vasoactive agent

Aging; Coronary circulation; Endothelial function; Nitric oxide; Prostaglandin (Ishihata, A. (523) 119)

Vasoconstriction

Ischemia; Reperfusion; Endothelin; U46619; NO (nitric oxide) (García-Villalón, A.L. (509) 165)

Pulmonary hypertension; Chronic exercise; Vasorelaxation (Goret, L. (527) 121)

Vasodilatation

Coronary circulation; Endothelial function; Myocardial infarction; Remodeling; Nitric oxide; Superoxide (Berges, A. (516) 60)

Diastole; Prostaglandin; Adenosine; Nitric oxide (Kisch-Wedel, H. (517) 208)

ATP-sensitive K⁺ channels (Adenosine 5'-triphosphate-sensitive K⁺ channels); Cerebral artery; Endothelium; Vascular smooth muscle; (Rat) (Jansen-Olesen, I. (523) 109)

Vasodilation

Blood pressure; Glucose; Insulin; Renin angiotensin system; Sympathetic nervous system (Villafañá, S. (506) 143)

Renal artery; Nebivolol; Hyperpolarization (Georgescu, A. (508) 159)

β -Adrenoceptor; β -Adrenoceptor antagonist; Hypertension; D/L-Nebivolol; NO (nitric oxide) (Sacco, G. (511) 167)

Spanish red wine; Composition; Polyphenol; Rat aorta; Endothelium (Padilla, E. (517) 84)

β -adrenoceptors; Peroxynitrite; Redox; Nitration; Heart rate; (Rat) (Lewis, S.J. (518) 187)

Vasopeptidase inhibition

Hypertension; Diabetes; Angiotensin converting enzyme inhibition; Cardiomyopathy (Grönholm, T. (519) 267)

Vasopressin

Conivaptan hydrochloride; Myocardial infarction; Vasopressin V_{1A} receptor; Vasopressin V₂ receptor; Aquaretic effect; Hemodynamics (Wada, K.-i. (507) 145)

Subarachnoid hemorrhage; Rat basilar artery; Vasopressin V₁ receptor; Endothelium-dependent contraction (Nishihashi, T. (513) 93)

Vasopressin secretion

Galanin; Galanin fragment; Galanin antagonist; Hyperosmosis; Histamine (Molnár, A. (516) 174)

Vasopressin V₁ receptor

Subarachnoid hemorrhage; Rat basilar artery; Vasopressin; Endothelium-dependent contraction (Nishihashi, T. (513) 93)

Vasopressin V_{1A} receptor

Conivaptan hydrochloride; Myocardial infarction; Vasopressin; Vasopressin V₂ receptor; Aquaretic effect; Hemodynamics (Wada, K.-i. (507) 145)

Vasopressin V₂ receptor

Conivaptan hydrochloride; Myocardial infarction; Vasopressin; Vasopressin V_{1A} receptor; Aquaretic effect; Hemodynamics (Wada, K.-i. (507) 145)

Vasorelaxation

N^ω-hydroxy-L-arginine homologue; Hydroxylamine; Nitric oxide release; Electron paramagnetic resonance (Beranova, P. (516) 260)

PGG (1,2,3,4,6-penta-O-galloyl- β -D-glucose); Nitric oxide/cGMP (guanosine 3', 5'-cyclic monophosphate); Cell adhesion (Kang, D.G. (524) 111)

Pulmonary hypertension; Chronic exercise; Vasoconstriction (Goret, L. (527) 121)

VEGF (vascular endothelial cell growth factor)

Diabetes; Angiogenesis; Calcium dobesilate; (Rat) (Lameynardie, S. (510) 149)

VEGF1

5-LOX; Colon cancer; Cigarette smoke; Angiogenesis; MMP (Ye, Y.N. (519) 52)

Venous

Urocortin; Corticotropin releasing factor; Mean arterial pressure; Mean circulatory filling pressure; Capacitance vessel (Abdelrahman, A.M. (510) 107)

Venous thrombosis model

Disseminated intravascular coagulation model; Factor Xa inhibitor; Thrombin inhibitor; Protein C; Thrombin generation (Furugohri, T. (514) 35)

Ventral pallidum

Jaw movement; Nucleus accumbens shell; Retrorubral field; GABA_A receptor; Dopamine D1/D2 receptor stimulation; (Rat) (Uchida, T. (510) 39)

Ventral tegmental area

Substantia nigra; Serotonin; Extracellular recording; Antipsychotic drug (Olijslagers, J.E. (520) 77)

GABA receptor; Conditioned place preference; Morphine; (Rat) (Sahraei, H. (524) 95)

Morphine withdrawal; Δ FosB; Glutamate receptor; DNQX; MK-801; Nucleus accumbens (Wang, H.-L. (527) 94)

Ventricular contractility

Neurotensin; Inotropic effect (Osadchii, O. (520) 108)

Ventricular repolarization

Halothane; Pentobarbital; Sematilide (Takahara, A. (507) 169)

Verapamil

5-HT₃ serotonin receptor binding; NG 108-15 cell; Allosteric modulation; Slope of displacement; Ifenprodil (Maksay, G. (514) 17)

Vestibular disorder

Betahistidine; Electrophysiology (Barresi, M. (515) 73)

Vilazodone

EMD-68843; Voltammetry; 5-HT efflux; 5-HT re-uptake (Roberts, C. (517) 59)

Vildagliptin

Dipeptidyl peptidase-4; Insulin secretion; Glucose tolerance; (Mice) (Åhrén, B. (521) 164)

Vincristine

Nicotinic acetylcholine receptor; Cancer pain; Neuropathic pain; Allodynia; Analgesia (Lynch III, J.J. (509) 43)

Vitamin C

Acetylsalicylic acid; Proinflammatory cytokine; Antioxidant enzyme (Konturek, P.C. (506) 169)

Vitamin E

8-Isoprostaglandin F_{2α}; Prostaglandin E₂; Carrageenan-induced air pouch model; Cyclooxygenase inhibitor (Çiçek Özdöl, N. (506) 189)

Voltage dependence

P2X receptor; Gate; Kinetics; Ligand affinity (Nakazawa, K. (508) 23)

Voltage-clamp

Alzheimer's disease; Acetylcholine binding protein; α 7 nicotinic receptor (Papke, R.L. (524) 11)

Voltage-dependent Ca²⁺ channels

ATP-sensitive K⁺ channels; Channel pore; U-37883A (Tomoda, T. (524) 1)

Voltage-sensitive Ca²⁺-channel

NO (nitric oxide); Spontaneously Hypertensive rat (Lewis, S.J. (528) 144)

Voltammetry

Diphenylpyraline; Dopamine release and uptake; Microdialysis; Locomotor activity (Lapa, G.B. (506) 237)

Vilazodone; EMD-68843; 5-HT efflux; 5-HT re-uptake (Roberts, C. (517) 59)

Dopamine; Ethanol; C57BL/6 mouse; Nucleus accumbens (Budygin, E.A. (523) 40)

voluntary alcohol consumption

GABA_B receptor; [³⁵S]GTPγS binding; (sP) Sardinian alcohol-preferring and (sNP) Sardinian alcohol-nonpreferring (Rat) (Castelli, M.P. (523) 67)

Water maze

Selegiline; Donepezil; Memory; Acetylcholine (Takahata, K. (518) 140)

FK962; Memory; Passive avoidance; Somatostatin; Whole-cell patch-clamp (Tokita, K. (527) 111)

WAY 100635

Diethylpropion; Marmoset; Figure-eight maze; Sensitivity (Mello Jr., E.L. (511) 43)

5-carboxamidotryptamine; Adaptive change; Epileptiform activity; Hippocampal slice; SB 269970 (Tokarski, K. (524) 60)

WAY-100635

Swim stress; Convulsions; (±)-8-hydroxy-2-(di-*n*-propylamino) tetralin hydrobromide (8-OH-DPAT); 1-(2,5-dimethoxy-4-iodophenyl)-2-amino-propane (DOI); Ketanserin (Peričić, D. (527) 105)

WAY100635

Tail suspension test; Sulpiride; Fluvoxamine; Antidepressant (Ago, Y. (520) 86)

Short-term memory; 5-HT_{1A} receptor; Fluoxetine; Buspirone; 8-OH-DPAT (8-hydroxy-di-*n*-propylamino tetralin) (Fernández-Pérez, S. (522) 78)

Western blot

Fos; Morphine withdrawal; Heart; Tyrosine hydroxylase (González-Cuello, A. (506) 119)

Wet dog shake

5-HT_{2A}; Endocannabinoid; Alpha-amino-3-hydroxy-5-methyl-4-isoxazole-propionic acid (AMPA); Kainate; (Rat) (Gorzalka, B.B. (516) 28)

Whole blood

Neutrophil; Platelet; YC-1; P-selectin; Cathepsin G; fMLP (Liao, C.-H. (519) 158)

Whole-cell patch-clamp

FK962; Memory; Passive avoidance; Somatostatin; Water maze (Tokita, K. (527) 111)

Wiping test

TRPV1 receptor antagonist; JYL1421 (SC0030); Sensory neuropeptide release; Ca²⁺ accumulation; Hypothermia; Pulmonary chemoreflex (Jakab, B. (517) 35)

Wistar-Kyoto rat

Brown Norway rat; Schizophrenia; Sensorimotor gating; Startle amplitude (Conti, L.H. (507) 125)

Withdrawal

Dopamine; Acetylcholine; Microdialysis; Benzodiazepines; Valium; Flumazenil; (Rat) (Rada, P. (508) 131)

Nicotine; Hyperalgesia; Knockout (Grabus, S.D. (515) 90)

Light–dark box; Anxiety; Nicotine; Startle; Prepulse inhibition; (Mouse) (Jonkman, S. (516) 40)

Conditioned place aversion; Dopamine; G-protein-activated inwardly rectifying potassium channel; Morphine (Sato, M. (519) 215)

Intracerebroventricular; Osmotic minipump; Morphine pellet; Chronic; Naloxone; Tolerance; (Mice) (Lenard, N.R. (527) 71)

Withdrawal sign

Temazepam; Diazepam; Adenosine agonist (Listos, J. (523) 71)

WKY (rat)

EEG (Electroencephalogram); REM (Rapid eye movement) suppression; Desipramine; Citalopram; Fluoxetine; Circadian rhythm (Ivarsson, M. (522) 63)

Wogonin

Sho-saiko-to, (SST); CD4/CD8 ratio; CD8⁺ T-cell; Proliferation (Ohtake, N. (507) 301)

Wortmannin

Inotropic effect; Ca²⁺ transient; Endothelin-1; Rabbit cardiac myocyte (Chu, L. (507) 135)

Xanthophyllomyces dendrorhous

Anti-ulcer drug; Astaxanthin; Gastric antral ulceration; Orogastric administration (Kim, J.-H. (514) 53)

***Xenopus laevis* oocyte**

Human nicotinic acetylcholine receptor; Galanthamine; Scopolamine; Tacrine; Two-microelectrode voltage clamp (Smulders, C.J.G.M. (509) 97)

***Xenopus* oocyte**

Isorhynchophylline; Isocorynoxine; *Uncaria* alkaloid; 5-HT_{2A} receptor-mediated head twitch response; 5-HT_{2A} receptor-mediated current response (Matsumoto, K. (517) 191)

Proton; GABA; Pentobarbital; GABA_A receptor (Wang, M.-D. (528) 1)

Toluene; Sodium channel; Local anaesthetic; β_1 subunit (Gauthereau, M.Y. (528) 17)

Y25130

5-HT₃ receptor antagonist; MDL72222; 5-HT₃ receptor; β -Amyloid protein; Neurotoxicity; Cortical neuron; Neuroprotection (Ju Yeon Ban (520) 12)

Y-27632

Lung injury; Nitric oxide; Oleic acid; Rho-kinase (Köksel, O. (510) 135)

Electrical field stimulation; Rho kinase; Sheep gallbladder smooth muscle (Şahan-Fırat, S. (528) 169)

Y27632

Rho-kinase; eNOS; Hypertension; Endothelial function; Nitric oxide (Löhn, M. (507) 179)

Y-40138

TNF- α ; IFN- γ ; IL-4; Chemokine; Pentoxifylline; Anti-TNF- α antibody; Concanavalin A; Hepatitis (Fukuda, T. (523) 137)

YC-1

Soluble guanylate cyclase; Heme; Nitric oxide; cGMP; BAY 58-2667; BAY 41-2272 (Schmidt, P.M. (513) 67)

Mesangial cells; Cyclin D1; Proliferation; p38 mitogen-activated protein kinase (Chiang, W.-C. (517) 1)

DETA/NO; Soluble guanylate cyclase activator; Nitric oxide donor; Myometrium (Demirkoprulu, N. (517) 240)

Neutrophil; Platelet; P-selectin; Cathepsin G; fMLP; Whole blood (Liao, C.-H. (519) 158)

Y-chromosome

Aggression; Quantitative trait locus; Steroid sulfatase; Pseudo-autosomal region (Roubertoux, P.L. (526) 172)

YFP

Internalization; Allosteric modulation; PD 81,723; SCH-202676; Human adenosine A₁ receptor (Klaasse, E.C. (522) 1)

Yohimbine

Unpredictable chronic mild stress; Tramadol; Desipramine; Pindolol (Yalcin, I. (514) 165)

Neuropathic pain; Cold allodynia; Phentolamine; Prazosin; α -adrenoreceptor (Kim, S.K. (523) 64)

Zelandopam

Dopamine D1-like receptor; Nephrosis; Proteinuria; Puromycin aminonucleoside (Yatsu, T. (510) 121)

Zolantidine

Histamine; H₂ receptor; H₂ receptor antagonist; Impropog (Hough, L.B. (522) 38)

Zolpidem

Allodynia; Gaboxadol; GABA_A receptor; Hyperalgesia; Isoguvacine (Rode, F. (516) 131)

ACTH (adrenocorticotrophic hormone); Corticosterone; GABA; Paraventricular nucleus; Stress; L-838,417; Diazepam; Zopiclone; (Mouse) (Mikkelsen, J.D. (519) 223)

Zopiclone

ACTH (adrenocorticotrophic hormone); Corticosterone; GABA; Paraventricular nucleus; Stress; L-838,417; Diazepam; Zolpidem; (Mouse) (Mikkelsen, J.D. (519) 223)

Zotepine

Serotonin (5-HT) release; Microdialysis (Nakamura, S. (528) 95)

(Zucker Diabetic Fatty rat)

Resiniferatoxin; Diabetes; Sensory nerve; Dipeptidyl peptidase IV (Gram, D.X. (509) 211)

Zucker fatty rat

FK614; Nonthiazolidindione; Insulin sensitizer; PPAR (peroxisome proliferator-activated receptor) γ (Minoura, H. (519) 182)