

Keyword index

Adenosine

Ischemia, treatment; Memory; MAP2 (microtubule-associated protein 2); (Gerbil) (Von Lubitz, D.K.J.E. (316) 171)

Nitric oxide (NO) synthase; mRNA expression; Anti-inflammatory; Nitric oxide (NO) (Moochhala, S.M. (316) 287)

Dopamine; Adenylyl cyclase; Fibroblast; Receptor-receptor interaction (Dasgupta, S. (316) 325)

Adenylate cyclase

Intestine; Ganglion; Enteric nervous system; Myenteric plexus; Histamine; cAMP (Xia, Y. (316) 81)

Adenylyl cyclase

Adenosine; Dopamine; Fibroblast; Receptor-receptor interaction (Dasgupta, S. (316) 325)

Ibogaïne; Noribogaïne; 5-HT receptors; Opioid receptors; Muscarinic acetylcholine receptors (Rabin, R.A. (316) 343)

α_2 -Adrenoceptor

Analgesia; Pain; (Amphibian) (Stevens, C.W. (316) 205)

α_2 -Adrenoceptors

RX821002; Imidazoline binding sites; Kidney, rat (Callado, L.F. (316) 359)

α_2 -Adrenoceptor agonist

Mivazerol; Heart rate; NMDA receptor; Spinal cord (Kim, S.Y. (316) 249)

β -Adrenoceptor

Microdialysis, in vivo; Citalopram; WAY-100635; Penbutolol enantiomer; 5-HT_{1A} autoreceptor, raphe; 5-HT_{1A} receptor, postsynaptic; Antidepressant augmentation (Hjorth, S. (316) 43)

β_1 -Adrenoceptor

β_2 -Adrenoceptor; Antibody; Fusion protein (Jahns, R. (316) 111)

β_2 -Adrenoceptor

β_1 -Adrenoceptor; Antibody; Fusion protein (Jahns, R. (316) 111)

Aequorin

Ca²⁺; Myocardium; Dantrolene; Sarcoplasmic reticulum; Ca²⁺ indicators (Meissner, A. (316) 333)

Ambulatory sensitization

Methamphetamine; Cocaine; Morphine; Interdose interval; (Mouse) (Kuribara, H. (316) 1)

cAMP

Intestine; Ganglion; Enteric nervous system; Myenteric plexus; Histamine; Adenylate cyclase (Xia, Y. (316) 81)

D,L-Amphetamine

Metabotropic glutamate receptors; MK-801; Basal ganglia; Open-field; Catalepsy (Kronthaler, U.O. (316) 129)

Analgesia

μ -Opioid receptor; Tyr-W-MIF-1; Antinociception (Gergen, K.A. (316) 33)

α_2 -Adrenoceptor; Pain; (Amphibian) (Stevens, C.W. (316) 205)

Tramadol; Cloned human receptor; Opioid receptor type (Lai, J. (316) 369)

Anhedonia

D-cycloserine; Imipramine; Stress; Chronic; Antidepressant action; ACPC (1-aminocyclopropanecarboxylic acid) (Papp, M. (316) 145)

Antibody

β_1 -Adrenoceptor; β_2 -Adrenoceptor; Fusion protein (Jahns, R. (316) 111)

Anticholinesterase

Muscarinic acetylcholine receptor; 5-HT₂ receptor; Neocortical high-voltage spindle; Thalamocortical oscillation; (Rat) (Jäkälä, P. (316) 181)

Antidepressant

Selective breeding; Depression, animal model (Vaugeois, J.-M. (316) R1)

Antidepressant action

D-cycloserine; Imipramine; Stress; Chronic; Anhedonia; ACPC (1-aminocyclopropanecarboxylic acid) (Papp, M. (316) 145)

Antidepressant augmentation

Microdialysis, in vivo; Citalopram; WAY-100635; Penbutolol enantiomer; 5-HT_{1A} autoreceptor, raphe; 5-HT_{1A} receptor, postsynaptic; β -Adrenoceptor (Hjorth, S. (316) 43)

Anti-epileptic

Felbamate; Na⁺ channel, voltage-dependent (Taglialatela, M. (316) 373)

Anti-epileptic drugs

Epilepsy; Midbrain; GABA (γ -aminobutyric acid) (Bloms-Funke, P. (316) 211)

Anti-GBM nephritis

Butein; Intercellular adhesion molecules; Endothelial cells; Leukocyte, polymorphonuclear (Hayashi, K. (316) 297)

Anti-inflammatory

Nitric oxide (NO) synthase; mRNA expression; Adenosine; Nitric oxide (NO) (Moochhala, S.M. (316) 287)

Antinociception

Analgesia; μ -Opioid receptor; Tyr-W-MIF-1 (Gergen, K.A. (316) 33)

Bradykinin; Bradykinin B₁ receptor; Bradykinin B₂ receptor; NPC 18521; Formalin; Capsaicin; Licking; Writhing test; Paw oedema; (Mouse); (Rat) (De Campos, R.O.P. (316) 277)

Antiporter

Ca²⁺ paradox; Oxygen paradox; Caffeine; Extracellular K⁺ (Harding, R.J. (316) 223)

Antisense oligodeoxynucleotide

Artery, human; Noradrenaline; Neuropeptide Y; BIBP3226; Reverse transcriptase-polymerase chain reaction (Bergdahl, A. (316) 59)

Arachidonic acid

Epithelial cells; Cell cycle; Cell proliferation; TGF- β 1 (transforming growth factor β 1) (Kozubík, A. (316) 349)

L-Arginine

Na⁺ transport; K⁺ transport; Opiate; Cholinergic responses; Nitric oxide (NO) (Neumann, V. (316) 123)

Artery, human

Noradrenaline; Neuropeptide Y; Antisense oligodeoxynucleotide; BIBP-3226; Reverse transcriptase-polymerase chain reaction (Bergdahl, A. (316) 59)

ATP

P_{2X} purinoceptor; Suramin; Portal vein, guinea-pig (Orre, M. (316) 229)

Basal ganglia

Metabotropic glutamate receptors; D,L-Amphetamine; MK-801; Open-field; Catalepsy (Kronthaler, U.O. (316) 129)

Berberine

K⁺ channel, ATP-sensitive; Patch clamp; Microelectrode recording; Cardiac cell (Wang, Y.-X. (316) 307)

Bezold-Jarisch reflex

5-HT₃ receptor; 5-HT₃ receptor agonist; N1E-115 cells; NG 108-15 cells; [¹⁴C]guanidinium; Emesis; Inward current; (Rat) (Delagrange, P. (316) 195)

BIBP3226

Artery, human; Noradrenaline; Neuropeptide Y; Antisense oligodeoxynucleotide; Reverse transcriptase-polymerase chain reaction (Bergdahl, A. (316) 59)

Bisquaternary allosteric antagonist

Muscarinic acetylcholine receptor agonist (Lanzafame, A. (316) 27)

Blood monocyte, human

Prostaglandin endoperoxide synthase; Platelet, human; Flurbiprofen; Flurbinitroxybutylester (Santini, G. (316) 65)

Blood pressure

Endothelin-1; Superior colliculus; Renal blood flow (D'Amico, M. (316) 245)

Body weight loss

Diltiazem; Naloxone-precipitated withdrawal; Morphine withdrawal, spontaneous; Corticosterone, plasma; Diarrhea; (Rat) (Kishioka, S. (316) 7)

Bradycardic agents, specific

Isovolumic relaxation; Ventricular filling; Myocardial contractility; Preload recruitable stroke work; Inotropes; Dobutamine; Zatebradine (Hettick, D.A. (316) 237)

Bradykinin

Bradykinin; Bradykinin B₁ receptor; Bradykinin B₂ receptor; NPC 18521; Antinociception; Formalin; Capsaicin; Licking; Writhing test; Paw oedema; (Mouse); (Rat) (De Campos, R.O.P. (316) 277)

Bradykinin B₁ receptor

Bradykinin; Bradykinin B₂ receptor; NPC 18521; Antinociception; Formalin; Capsaicin; Licking; Writhing test; Paw oedema; (Mouse); (Rat) (De Campos, R.O.P. (316) 277)

Bradykinin B₂ receptor

Bradykinin; Bradykinin B₁ receptor; NPC 18521; Antinociception; Formalin; Capsaicin; Licking; Writhing test; Paw oedema; (Mouse); (Rat) (De Campos, R.O.P. (316) 277)

Bronchoconstriction, adenosine-induced

Tracheal spirals; Cross-tachyphylaxis; Xanthine antagonist resistance; Transport inhibitors; (Sensitized guinea pigs) (Thorne, J.R. (316) 263)

Buprenorphine

Morphine; Castor oil; Diarrhoea; Gastrointestinal transit; Ethanol lesion (Bhounsule, S.A. (316) 253)

Butein

Anti-GBM nephritis; Intercellular adhesion molecules; Endothelial cells; Leukocyte, polymorphonuclear (Hayashi, K. (316) 297)

Ca²⁺

Myocardium; Dantrolene; Sarcoplasmic reticulum; Ca²⁺ indicators; Aequorin (Meissner, A. (316) 333)

Ca²⁺ indicators

Ca²⁺; Myocardium; Dantrolene; Sarcoplasmic reticulum; Aequorin (Meissner, A. (316) 333)

Ca²⁺ paradox

Oxygen paradox; Caffeine; Extracellular K⁺; Antiporter (Harding, R.J. (316) 223)

Caffeine

Ca²⁺ paradox; Oxygen paradox; Extracellular K⁺; Antiporter (Harding, R.J. (316) 223)

Capsaicin

Bradykinin; Bradykinin B₁ receptor; Bradykinin B₂ receptor; NPC 18521; Antinociception; Formalin; Licking; Writhing test; Paw oedema; (Mouse); (Rat) (De Campos, R.O.P. (316) 277)

Cardiac cell

Berberine; K⁺ channel, ATP-sensitive; Patch clamp; Microelectrode recording (Wang, Y.-X. (316) 307)

Castor oil

Morphine; Buprenorphine; Diarrhoea; Gastrointestinal transit; Ethanol lesion (Bhounsule, S.A. (316) 253)

Catalepsy

Metabotropic glutamate receptors; D,L-Amphetamine; MK-801; Basal ganglia; Open-field (Kronthaler, U.O. (316) 129)

Cell cycle

Arachidonic acid; Epithelial cells; Cell proliferation; TGF- β 1 (transforming growth factor β 1) (Kozubík, A. (316) 349)

Cell proliferation

Arachidonic acid; Epithelial cells; Cell cycle; TGF- β 1 (transforming growth factor β 1) (Kozubík, A. (316) 349)

Cerebellum

cGMP; MK-801; Purkinje cell; TRH tartrate (thyrotropin-releasing hormone tartrate); GABA (γ -aminobutyric acid) (Nakayama, T. (316) 157)

[¹⁴C]guanidinium

5-HT₃ receptor; 5-HT₃ receptor agonist; N1E-115 cells; NG 108-15 cells; Bezold-Jarisch reflex; Emesis; Inward current; (Rat) (Delagrang, P. (316) 195)

Cholinergic responses

L-Arginine; Na⁺ transport; K⁺ transport; Opiate; Nitric oxide (NO) (Neumann, V. (316) 123)

Chronic

D-cycloserine; Imipramine; Stress; Anhedonia; Antidepressant action; ACPC (1-aminocyclopropanecarboxylic acid) (Papp, M. (316) 145)

Citalopram

Microdialysis, in vivo; WAY-100635; Penbutolol enantiomer; 5-HT_{1A} autoreceptor, raphe; 5-HT_{1A} receptor, postsynaptic; β -Adrenoceptor; Antidepressant augmentation (Hjorth, S. (316) 43)

Cloned human receptor

Tramadol; Analgesia; Opioid receptor type (Lai, J. (316) 369)

Cocaine

Methamphetamine; Morphine; Ambulatory sensitization; Interdose interval; (Mouse) (Kuribara, H. (316) 1)

Corticosterone, plasma

Diltiazem; Naloxone-precipitated withdrawal; Morphine withdrawal, spontaneous; Body weight loss; Diarrhea; (Rat) (Kishioka, S. (316) 7)

Cross-tachyphylaxis

Bronchoconstriction, adenosine-induced; Tracheal spirals; Xanthine antagonist resistance; Transport inhibitors; (Sensitized guinea pigs) (Thorne, J.R. (316) 263)

Dantrolene

Ca²⁺; Myocardium; Sarcoplasmic reticulum; Ca²⁺ indicators; Aequorin (Meissner, A. (316) 333)

D-CPPene (SDZ EAA 494)

Nicotine; Sensitization; Dopamine, mesoaccumbens; Locomotor activity; 3-(2-carboxypiperazin-4-yl)-1-propenyl-1-phosphonic acid (Balfour, D.J.K. (316) 153)

D-cycloserine

Imipramine; Stress; Chronic; Anhedonia; Antidepressant action; ACPC (1-aminocyclopropanecarboxylic acid) (Papp, M. (316) 145)

2-Deoxy-D-glucose

Food intake; 5-HT_{2A} receptor, peripheral; 5-HT₃ receptor, peripheral; α -Methyl-5-HT (α -methyl-5-hydroxytryptamine); 2-Methyl-5-HT (2-methyl-5-hydroxytryptamine) (Sugimoto, Y. (316) 15)

Depression, animal model

Selective breeding; Antidepressant (Vaugeois, J.-M. (316) R1)

Diarrhea

Diltiazem; Naloxone-precipitated withdrawal; Morphine withdrawal, spontaneous; Corticosterone, plasma; Body weight loss; (Rat) (Kishioka, S. (316) 7)

Diarrhoea

Morphine; Buprenorphine; Castor oil; Gastrointestinal transit; Ethanol lesion (Bhounsule, S.A. (316) 253)

Diltiazem

Naloxone-precipitated withdrawal; Morphine withdrawal, spontaneous; Corticosterone, plasma; Body weight loss; Diarrhea; (Rat) (Kishioka, S. (316) 7)

Dobutamine

Isovolumic relaxation; Ventricular filling; Myocardial contractility; Preload recruitable stroke work; Inotropes; Bradycardic agents, specific; Zatebradine (Hettrick, D.A. (316) 237)

Dopamine

Adenosine; Adenylyl cyclase; Fibroblast; Receptor-receptor interaction (Dasgupta, S. (316) 325)

Dopamine, mesoaccumbens

Nicotine; D-CPPene (SDZ EAA 494; Sensitization; Locomotor activity; 3-(2-carboxypiperazin-4-yl)-1-propenyl-1-phosphonic acid (Balfour, D.J.K. (316) 153)

Dorsal root ganglion

Local anesthetic; *N*-butyl-*p*-aminobenzoate; Patch clamp; Na⁺ current inactivation (Van den Berg, R.J. (316) 87)

DP-1904

Thromboxane A₂ synthase inhibitor; Heymann nephritis; Proteinuria (Nagao, T. (316) 73)

Emesis

5-HT₃ receptor; 5-HT₃ receptor agonist; N1E-115 cells; NG 108-15 cells; Bezold-Jarisch reflex; [¹⁴C]guanidinium; Inward current; (Rat) (Delagrang, P. (316) 195)

Endothelial cells

Butein; Anti-GBM nephritis; Intercellular adhesion molecules; Leukocyte, polymorphonuclear (Hayashi, K. (316) 297)

Endothelin-1

Superior colliculus; Blood pressure; Renal blood flow (D'Amico, M. (316) 245)

Enteric nervous system

Intestine; Ganglion; Myenteric plexus; Histamine; cAMP; Adenylate cyclase (Xia, Y. (316) 81)

Epilepsy

Anti-epileptic drugs; Midbrain; GABA (γ -aminobutyric acid) (Bloms-Funke, P. (316) 211)

Epithelial cells

Arachidonic acid; Cell cycle; Cell proliferation; TGF- β 1 (transforming growth factor β 1) (Kozubík, A. (316) 349)

Escherichia coli enterotoxin-induced secretion

Intestinal fluid transport; K⁺ channels; Prostaglandin E₂; Nitric oxide (NO); *N*^ω-nitro-L-arginine methyl ester (L-NAME) (Schirgi-Degen, A. (316) 257)

Ethanol

Hypertension; BNP (brain natriuretic peptide) (Guillaume, P. (316) 49)

Ethanol lesion

Morphine; Buprenorphine; Castor oil; Diarrhoea; Gastrointestinal transit (Bhounsule, S.A. (316) 253)

Extracellular K⁺

Ca²⁺ paradox; Oxygen paradox; Caffeine; Antiporter (Harding, R.J. (316) 223)

Felbamate

Na⁺ channel, voltage-dependent; Anti-epileptic (Taglialatela, M. (316) 373)

Fibroblast

Adenosine; Dopamine; Adenylyl cyclase; Receptor-receptor interaction (Dasgupta, S. (316) 325)

Flurbinitroxybutylester

Prostaglandin endoperoxide synthase; Blood monocyte, human; Platelet, human; Flurbiprofen (Santini, G. (316) 65)

Flurbiprofen

Prostaglandin endoperoxide synthase; Blood monocyte, human; Platelet, human; Flurbinitroxybutylester (Santini, G. (316) 65)

Food intake

2-Deoxy-D-glucose; 5-HT_{2A} receptor, peripheral; 5-HT₃ receptor, peripheral; α -Methyl-5-HT (α -methyl-5-hydroxytryptamine); 2-Methyl-5-HT (2-methyl-5-hydroxytryptamine) (Sugimoto, Y. (316) 15)

5-HT_{1A} receptor; 8-OH-DPAT (8-hydroxy-2-(di-*n*-propylamino)tetralin); Nitric oxide (NO); *N*^G-Nitro-L-arginine methyl ester (L-NAME) (Yamada, J. (316) 23)

Formalin

Bradykinin; Bradykinin B₁ receptor; Bradykinin B₂ receptor; NPC 18521; Antinociception; Capsaicin; Licking; Writhing test; Paw oedema; (Mouse); (Rat) (De Campos, R.O.P. (316) 277)

Fusion protein

β_1 -Adrenoceptor; β_2 -Adrenoceptor; Antibody (Jahns, R. (316) 111)

Ganglion

Intestine; Enteric nervous system; Myenteric plexus; Histamine; cAMP; Adenylate cyclase (Xia, Y. (316) 81)

Gastrointestinal transit

Morphine; Buprenorphine; Castor oil; Diarrhoea; Ethanol lesion (Bhounsule, S.A. (316) 253)

Glycogen synthesis

S6 kinase, 90 kDa; Insulin; Protein phosphatase 1G; EGF (epidermal growth factor) (Yasui, K. (316) 317)

cGMP

Cerebellum; MK-801; Purkinje cell; TRH tartrate (thyrotropin-releasing hormone tartrate); GABA (γ -aminobutyric acid) (Nakayama, T. (316) 157)

G-protein

Thrombin receptor; Phosphoinositide hydrolysis; GTPase (Ogino, Y. (316) 105)

GTPase

Thrombin receptor; Phosphoinositide hydrolysis; G-protein (Ogino, Y. (316) 105)

Heart rate

Mivazerol; α_2 -Adrenoceptor agonist; NMDA receptor; Spinal cord (Kim, S.Y. (316) 249)

Hemoglobin

Muscle denervation; Nitroprusside; ODQ (1*H*-[1,2,4]oxadiazolo[4,3-*a*]quinoxalin-1-one); Nitric oxide (NO) (Urzaev, A.Kh. (316) 219)

Heymann nephritis

DP-1904; Thromboxane A₂ synthase inhibitor; Proteinuria (Nagao, T. (316) 73)

Histamine

Intestine; Ganglion; Enteric nervous system; Myenteric plexus; cAMP; Adenylate cyclase (Xia, Y. (316) 81)

5-HT_{1A} autoreceptor, raphe

Microdialysis, in vivo; Citalopram; WAY-100635; Penbutolol enantiomer; 5-HT_{1A} receptor, postsynaptic; β -Adrenoceptor; Antidepressant augmentation (Hjorth, S. (316) 43)

5-HT_{1A} receptor

Food intake; 8-OH-DPAT (8-hydroxy-2-(di-*n*-propylamino)tetralin); Nitric oxide (NO); *N*^G-Nitro-L-arginine methyl ester (L-NAME) (Yamada, J. (316) 23)

5-HT₂ receptor

Anticholinesterase; Muscarinic acetylcholine receptor; Neocortical high-voltage spindle; Thalamocortical oscillation; (Rat) (Jäkälä, P. (316) 181)

5-HT₃ receptor

5-HT₃ receptor agonist; N1E-115 cells; NG 108-15 cells; Bezold-Jarisch reflex; [¹⁴C]guanidinium; Emesis; Inward current; (Rat) (Delagrangé, P. (316) 195)

5-HT₃ receptor agonist

5-HT₃ receptor; N1E-115 cells; NG 108-15 cells; Bezold-Jarisch reflex; [¹⁴C]guanidinium; Emesis; Inward current; (Rat) (Delagrangé, P. (316) 195)

5-HT_{2A} receptor, peripheral

Food intake; 2-Deoxy-D-glucose; 5-HT₃ receptor, peripheral; α -Methyl-5-HT (α -methyl-5-hydroxytryptamine); 2-Methyl-5-HT (2-methyl-5-hydroxytryptamine) (Sugimoto, Y. (316) 15)

5-HT₃ receptor, peripheral

Food intake; 2-Deoxy-D-glucose; 5-HT_{2A} receptor, peripheral; α -Methyl-5-HT (α -methyl-5-hydroxytryptamine); 2-Methyl-5-HT (2-methyl-5-hydroxytryptamine) (Sugimoto, Y. (316) 15)

5-HT_{1A} receptor, postsynaptic

Microdialysis, in vivo; Citalopram; WAY-100635; Penbutolol enantiomer; 5-HT_{1A} autoreceptor, raphe; β -Adrenoceptor; Antidepressant augmentation (Hjorth, S. (316) 43)

5-HT receptors

Ibogaïne; Noribogaïne; Adenylyl cyclase; Opioid receptors; Muscarinic acetylcholine receptors (Rabin, R.A. (316) 343)

Hypertension

Ethanol; BNP (brain natriuretic peptide) (Guillaume, P. (316) 49)

Ibogaïne

Noribogaïne; Adenylyl cyclase; 5-HT receptors; Opioid receptors; Muscarinic acetylcholine receptors (Rabin, R.A. (316) 343)

Imidazoline binding sites

RX821002; α_2 -Adrenoceptors; Kidney, rat (Callado, L.F. (316) 359)

Imipramine

D-cycloserine; Stress; Chronic; Anhedonia; Antidepressant action; ACPC (1-aminocyclopropanecarboxylic acid) (Papp, M. (316) 145)

Immobilization stress

Interleukin-6, plasma; MK-801; NMDA (*N*-methyl-D-aspartate); (Mouse) (Song, D.-K. (316) 165)

Inotropes

Isovolumic relaxation; Ventricular filling; Myocardial contractility; Preload recruitable stroke work; Dobutamine; Bradycardic agents, specific; Zatebradine (Hettrick, D.A. (316) 237)

Insulin

S6 kinase, 90 kDa; Glycogen synthesis; Protein phosphatase 1G; EGF (epidermal growth factor) (Yasui, K. (316) 317)

Intercellular adhesion molecules

Butein; Anti-GBM nephritis; Endothelial cells; Leukocyte, polymorphonuclear (Hayashi, K. (316) 297)

Interdose interval

Methamphetamine; Cocaine; Morphine; Ambulatory sensitization; (Mouse) (Kuribara, H. (316) 1)

Interleukin-6, plasma

MK-801; Immobilization stress; NMDA (*N*-methyl-D-aspartate); (Mouse) (Song, D.-K. (316) 165)

Intestinal fluid transport

K⁺ channels; Prostaglandin E₂; *Escherichia coli* enterotoxin-induced secretion; Nitric oxide (NO); *N*^ω-nitro-L-arginine methyl ester (L-NAME) (Schirgi-Degen, A. (316) 257)

Intestine

Ganglion; Enteric nervous system; Myenteric plexus; Histamine; cAMP; Adenylate cyclase (Xia, Y. (316) 81)

Inward current

5-HT₃ receptor; 5-HT₃ receptor agonist; N1E-115 cells; NG 108-15 cells; Bezold-Jarisch reflex; [¹⁴C]guanidinium; Emesis; (Rat) (Delagrange, P. (316) 195)

Ischemia, treatment

Adenosine; Memory; MAP2 (microtubule-associated protein 2); (Gerbil) (Von Lubitz, D.K.J.E. (316) 171)

Isovolumic relaxation

Ventricular filling; Myocardial contractility; Preload recruitable stroke work; Inotropes; Dobutamine; Bradycardic agents, specific; Zatebradine (Hettrick, D.A. (316) 237)

K⁺ channel, ATP-sensitive

Berberine; Patch clamp; Microelectrode recording; Cardiac cell (Wang, Y.-X. (316) 307)

K⁺ channels

Intestinal fluid transport; Prostaglandin E₂; *Escherichia coli* enterotoxin-induced secretion; Nitric oxide (NO); *N*^ω-nitro-L-arginine methyl ester (L-NAME) (Schirgi-Degen, A. (316) 257)

Kidney, rat

RX821002; α₂-Adrenoceptors; Imidazoline binding sites (Callado, L.F. (316) 359)

K⁺ transport

L-Arginine; Na⁺ transport; Opiate; Cholinergic responses; Nitric oxide (NO) (Neumann, V. (316) 123)

Labor

Melatonin; Myometrium, human; Pregnancy; Noradrenaline (Mårtensson, L.G.E. (316) 273)

Leukocyte, polymorphonuclear

Butein; Anti-GBM nephritis; Intercellular adhesion molecules; Endothelial cells (Hayashi, K. (316) 297)

Licking

Bradykinin; Bradykinin B₁ receptor; Bradykinin B₂ receptor; NPC 18521; Antinociception; Formalin; Capsaicin; Writhing test; Paw oedema; (Mouse); (Rat) (De Campos, R.O.P. (316) 277)

Local anesthetic

N-butyl-*p*-aminobenzoate; Patch clamp; Na⁺ current inactivation; Dorsal root ganglion (Van den Berg, R.J. (316) 87)

Locomotor activity

Nicotine; D-CPPene (SDZ EAA 494; Sensitization; Dopamine, meso-accumbens; 3-(2-carboxypiperazin-4-yl)-1-propenyl-1-phosphonic acid) (Balfour, D.J.K. (316) 153)

Melatonin

Myometrium, human; Pregnancy; Labor; Noradrenaline (Mårtensson, L.G.E. (316) 273)

Memory

Ischemia, treatment; Adenosine; MAP2 (microtubule-associated protein 2); (Gerbil) (Von Lubitz, D.K.J.E. (316) 171)

Metabotropic glutamate receptors

D,L-Amphetamine; MK-801; Basal ganglia; Open-field; Catalepsy (Kronthaler, U.O. (316) 129)

Methamphetamine

Cocaine; Morphine; Ambulatory sensitization; Inderdose interval; (Mouse) (Kuribara, H. (316) 1)

Microdialysis, in vivo

Citalopram; WAY-100635; Penbutolol enantiomer; 5-HT_{1A} autoreceptor, raphe; 5-HT_{1A} receptor, postsynaptic; β-Adrenoceptor; Antidepressant augmentation (Hjorth, S. (316) 43)

Microelectrode recording

Berberine; K⁺ channel, ATP-sensitive; Patch clamp; Cardiac cell (Wang, Y.-X. (316) 307)

Midbrain

Anti-epileptic drugs; Epilepsy; GABA (γ-aminobutyric acid) (Bloms-Funke, P. (316) 211)

Mivazerol

α₂-Adrenoceptor agonist; Heart rate; NMDA receptor; Spinal cord (Kim, S.Y. (316) 249)

MK-801

Metabotropic glutamate receptors; D,L-Amphetamine; Basal ganglia; Open-field; Catalepsy (Kronthaler, U.O. (316) 129)

cGMP; Cerebellum; Purkinje cell; TRH tartrate (thyrotropin-releasing hormone tartrate); GABA (γ-aminobutyric acid) (Nakayama, T. (316) 157)

Interleukin-6, plasma; Immobilization stress; NMDA (*N*-methyl-D-aspartate); (Mouse) (Song, D.-K. (316) 165)

Morphine

Methamphetamine; Cocaine; Ambulatory sensitization; Inderdose interval; (Mouse) (Kuribara, H. (316) 1)

Buprenorphine; Castor oil; Diarrhoea; Gastrointestinal transit; Ethanol lesion (Bhounsule, S.A. (316) 253)

Morphine withdrawal, spontaneous

Diltiazem; Naloxone-precipitated withdrawal; Corticosterone, plasma; Body weight loss; Diarrhea; (Rat) (Kishioka, S. (316) 7)

Muscarinic acetylcholine receptor agonist

Bisquaternary allosteric antagonist (Lanzafame, A. (316) 27)

Muscarinic acetylcholine receptor

Anticholinesterase; 5-HT₂ receptor; Neocortical high-voltage spindle; Thalamocortical oscillation; (Rat) (Jäkälä, P. (316) 181)

Muscarinic acetylcholine receptors

Ibogaïne; Noribogaïne; Adenylyl cyclase; 5-HT receptors; Opioid receptors (Rabin, R.A. (316) 343)

Muscle denervation

Nitroprusside; Hemoglobin; ODQ (1*H*-[1,2,4]oxadiazolo[4,3-*a*]quinoxalin-1-one); Nitric oxide (NO) (Urazaev, A.Kh. (316) 219)

Myenteric plexus

Intestine; Ganglion; Enteric nervous system; Histamine; cAMP; Adenylyl cyclase (Xia, Y. (316) 81)

Myocardial contractility

Isovolumic relaxation; Ventricular filling; Preload recruitable stroke work; Inotropes; Dobutamine; Bradycardic agents, specific; Zatebradine (Hettrick, D.A. (316) 237)

Myocardium

Ca²⁺; Dantrolene; Sarcoplasmic reticulum; Ca²⁺ indicators; Aequorin (Meissner, A. (316) 333)

Myometrium, human

Melatonin; Pregnancy; Labor; Noradrenaline (Mårtensson, L.G.E. (316) 273)

Na⁺-Ca²⁺ exchange

Taurine; Ventricular myocyte, rat; Patch-clamp (Katsube, Y. (316) 97)

Na⁺ channel, voltage-dependent

Felbamate; Anti-epileptic (Taglialatela, M. (316) 373)

Na⁺ current inactivation

Local anesthetic; *N*-butyl-*p*-aminobenzoate; Patch clamp; Dorsal root ganglion (Van den Berg, R.J. (316) 87)

Naloxone-precipitated withdrawal

Diltiazem; Morphine withdrawal, spontaneous; Corticosterone, plasma; Body weight loss; Diarrhea; (Rat) (Kishioka, S. (316) 7)

Naltrindole

Opioids; Opioid receptor antagonist; DAMGO ([D-Ala²-MePhe⁴-Gly(ol)⁵]enkephalin); DPDPE ([D-Pen², D-Pen⁵]enkephalin) (Duvauchelle, C.L. (316) 137)

Na⁺ transport

L-Arginine; K⁺ transport; Opiate; Cholinergic responses; Nitric oxide (NO) (Neumann, V. (316) 123)

***N*-butyl-*p*-aminobenzoate**

Local anesthetic; Patch clamp; Na⁺ current inactivation; Dorsal root ganglion (Van den Berg, R.J. (316) 87)

N1E-115 cells

5-HT₃ receptor; 5-HT₃ receptor agonist; NG 108-15 cells; Bezold-Jarisch reflex; [¹⁴C]guanidinium; Emesis; Inward current; (Rat) (Delagrange, P. (316) 195)

Neocortical high-voltage spindle

Anticholinesterase; Muscarinic acetylcholine receptor; 5-HT₂ receptor; Thalamocortical oscillation; (Rat) (Jäkälä, P. (316) 181)

Neuropeptide Y

Artery, human; Noradrenaline; Antisense oligodeoxynucleotide; BIBP3226; Reverse transcriptase-polymerase chain reaction (Bergdahl, A. (316) 59)

NG 108-15 cells

5-HT₃ receptor; 5-HT₃ receptor agonist; N1E-115 cells; Bezold-Jarisch reflex; [¹⁴C]guanidinium; Emesis; Inward current; (Rat) (Delagrange, P. (316) 195)

Nicotine

D-CPPene (SDZ EAA 494; Sensitization; Dopamine, mesoaccumbens; Locomotor activity; 3-(2-carboxypiperazin-4-yl)-1-propenyl-1-phosphonic acid) (Balfour, D.J.K. (316) 153)

Nitric oxide (NO) synthase

mRNA expression; Adenosine; Anti-inflammatory; Nitric oxide (NO) (Moochhala, S.M. (316) 287)

Nitroprusside

Muscle denervation; Hemoglobin; ODQ (1*H*-[1,2,4]oxadiazolo[4,3-*a*]quinoxalin-1-one); Nitric oxide (NO) (Urazaev, A.Kh. (316) 219)

NMDA receptor

Mivazerol; α₂-Adrenoceptor agonist; Heart rate; Spinal cord (Kim, S.Y. (316) 249)

Noradrenaline

Artery, human; Neuropeptide Y; Antisense oligodeoxynucleotide; BIBP3226; Reverse transcriptase-polymerase chain reaction (Bergdahl, A. (316) 59)

Melatonin; Myometrium, human; Pregnancy; Labor (Mårtensson, L.G.E. (316) 273)

Noribogaïne

Ibogaïne; Adenylyl cyclase; 5-HT receptors; Opioid receptors; Muscarinic acetylcholine receptors (Rabin, R.A. (316) 343)

NPC 18521

Bradykinin; Bradykinin B₁ receptor; Bradykinin B₂ receptor; Antinociception; Formalin; Capsaicin; Licking; Writhing test; Paw oedema; (Mouse); (Rat) (De Campos, R.O.P. (316) 277)

Open-field

Metabotropic glutamate receptors; D,L-Amphetamine; MK-801; Basal ganglia; Catalepsy (Kronthaler, U.O. (316) 129)

Opiate

L-Arginine; Na⁺ transport; K⁺ transport; Cholinergic responses; Nitric oxide (NO) (Neumann, V. (316) 123)

μ-Opioid receptor

Analgesia; Tyr-W-MIF-I; Antinociception (Gergen, K.A. (316) 33)

Opioid receptor antagonist

Opioids; Naltrindole; DAMGO ([D-Ala²-MePhe⁴-Gly(ol)⁵]enkephalin); DPDPE ([D-Pen², D-Pen⁵]enkephalin) (Duvauchelle, C.L. (316) 137)

Opioid receptors

Ibogaïne; Noribogaïne; Adenylyl cyclase; 5-HT receptors; Muscarinic acetylcholine receptors (Rabin, R.A. (316) 343)

Opioid receptor type

Tramadol; Analgesia; Cloned human receptor (Lai, J. (316) 369)

Opioids

Opioid receptor antagonist; Naltrindole; DAMGO ([D-Ala²-MePhe⁴-Gly(ol)⁵]enkephalin); DPDPE ([D-Pen², D-Pen⁵]enkephalin) (Duvauchelle, C.L. (316) 137)

Oxygen paradox

Ca²⁺ paradox; Caffeine; Extracellular K⁺; Antiporter (Harding, R.J. (316) 223)

Pain

α₂-Adrenoceptor; Analgesia; (Amphibian) (Stevens, C.W. (316) 205)

Patch clamp

Local anesthetic; *N*-butyl-*p*-aminobenzoate; Na⁺ current inactivation; Dorsal root ganglion (Van den Berg, R.J. (316) 87)

Taurine; Na⁺-Ca²⁺ exchange; Ventricular myocyte, rat (Katsube, Y. (316) 97)

Berberine; K⁺ channel, ATP-sensitive; Microelectrode recording; Cardiac cell (Wang, Y.-X. (316) 307)

Paw oedema

Bradykinin; Bradykinin B₁ receptor; Bradykinin B₂ receptor; NPC 18521; Antinociception; Formalin; Capsaicin; Licking; Writhing test; (Mouse); (Rat) (De Campos, R.O.P. (316) 277)

Perbutolol enantiomer

Microdialysis, in vivo; Citalopram; WAY-100635; 5-HT_{1A} autoreceptor, raphe; 5-HT_{1A} receptor, postsynaptic; β-Adrenoceptor; Antidepressant augmentation (Hjorth, S. (316) 43)

Perinatal

Δ⁹-Tetrahydrocannabinol; 5-HT (5-hydroxytryptamine, serotonin); 5-HTP (5-hydroxy-L-tryptophan); 5-HIAA (5-hydroxyindole-3-acetic acid); High-performance liquid chromatography with electrochemical detection (HPLC-ED) (Molina-Holgado, F. (316) 39)

Phosphoinositide hydrolysis

Thrombin receptor; G-protein; GTPase (Ogino, Y. (316) 105)

Platelet, human

Prostaglandin endoperoxide synthase; Blood monocyte, human; Flurbiprofen; Flurbinitroxybutylester (Santini, G. (316) 65)

Portal vein, guinea-pig

P_{2x} purinoceptor; ATP; Suramin (Orre, M. (316) 229)

P_{2x} purinoceptor

ATP; Suramin; Portal vein, guinea-pig (Orre, M. (316) 229)

Pregnancy

Melatonin; Myometrium, human; Labor; Noradrenaline (Mårtensson, L.G.E. (316) 273)

Preload recruitable stroke work

Isovolumic relaxation; Ventricular filling; Myocardial contractility; Inotropes; Dobutamine; Bradycardic agents, specific; Zatebradine (Hettrick, D.A. (316) 237)

Prostaglandin E₂

Intestinal fluid transport; K⁺ channels; *Escherichia coli* enterotoxin-induced secretion; Nitric oxide (NO); *N*^ω-nitro-L-arginine methyl ester (L-NAME) (Schirgi-Degen, A. (316) 257)

Prostaglandin endoperoxide synthase

Blood monocyte, human; Platelet, human; Flurbiprofen; Flurbinitroxybutylester (Santini, G. (316) 65)

Protein phosphatase 1G

S6 kinase, 90 kDa; Insulin; Glycogen synthesis; EGF (epidermal growth factor) (Yasui, K. (316) 317)

Proteinuria

DP-1904; Thromboxane A₂ synthase inhibitor; Heymann nephritis (Nagao, T. (316) 73)

Purkinje cell

cGMP; Cerebellum; MK-801; TRH tartrate (thyrotropin-releasing hormone tartrate); GABA (γ-aminobutyric acid) (Nakayama, T. (316) 157)

Receptor-receptor interaction

Adenosine; Dopamine; Adenylyl cyclase; Fibroblast (Dasgupta, S. (316) 325)

Renal blood flow

Endothelin-1; Superior colliculus; Blood pressure (D'Amico, M. (316) 245)

Reverse transcriptase-polymerase chain reaction

Artery, human; Noradrenaline; Neuropeptide Y; Antisense oligodeoxynucleotide; BIBP3226 (Bergdahl, A. (316) 59)

mRNA expression

Nitric oxide (NO) synthase; Adenosine; Anti-inflammatory; Nitric oxide (NO) (Moochhala, S.M. (316) 287)

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α₂-Adrenoceptors; Imidazoline binding sites; Kidney, rat (Callado, L.F. (316) 359)

Sarcoplasmic reticulum

Ca²⁺; Myocardium; Dantrolene; Ca²⁺ indicators; Aequorin (Meissner, A. (316) 333)

Selective breeding

Antidepressant; Depression, animal model (Vaugeois, J.-M. (316) R1)

Sensitization

Nicotine; D-CPPene (SDZ EAA 494; Dopamine, mesoaccumbens; Locomotor activity; 3-(2-carboxypiperazin-4-yl)-1-propenyl-1-phosphonic acid) (Balfour, D.J.K. (316) 153)

S6 kinase, 90 kDa

Insulin; Glycogen synthesis; Protein phosphatase 1G; EGF (epidermal growth factor) (Yasui, K. (316) 317)

Spinal cord

Mivazerol; α₂-Adrenoceptor agonist; Heart rate; NMDA receptor (Kim, S.Y. (316) 249)

Stress

D-cycloserine; Imipramine; Chronic; Anhedonia; Antidepressant action; ACPC (1-aminocyclopropanecarboxylic acid) (Papp, M. (316) 145)

Superior colliculus

Endothelin-1; Blood pressure; Renal blood flow (D'Amico, M. (316) 245)

Suramin

P_{2x} purinoceptor; ATP; Portal vein, guinea-pig (Orre, M. (316) 229)

Taurine

Na⁺-Ca²⁺ exchange; Ventricular myocyte, rat; Patch-clamp (Katsube, Y. (316) 97)

Δ⁹-Tetrahydrocannabinol

Perinatal; 5-HT (5-hydroxytryptamine, serotonin); 5-HTP (5-hydroxy-L-tryptophan); 5-HIAA (5-hydroxyindole-3-acetic acid); High-performance liquid chromatography with electrochemical detection (HPLC-ED) (Molina-Holgado, F. (316) 39)

Thalamocortical oscillation

Anticholinesterase; Muscarinic acetylcholine receptor; 5-HT₂ receptor; Neocortical high-voltage spindle; (Rat) (Jäkälä, P. (316) 181)

Thrombin receptor

Phosphoinositide hydrolysis; G-protein; GTPase (Ogino, Y. (316) 105)

Thromboxane A₂ synthase inhibitor

DP-1904; Heymann nephritis; Proteinuria (Nagao, T. (316) 73)

Tracheal spirals

Bronchoconstriction, adenosine-induced; Cross-tachyphylaxis; Xanthine antagonist resistance; Transport inhibitors; (Sensitized guinea pigs) (Thorne, J.R. (316) 263)

Tramadol

Analgesia; Cloned human receptor; Opioid receptor type (Lai, J. (316) 369)

Transport inhibitors

Bronchoconstriction, adenosine-induced; Tracheal spirals; Cross-tachyphylaxis; Xanthine antagonist resistance; (Sensitized guinea pigs) (Thorne, J.R. (316) 263)

Tyr-W-MIF-1

Analgesia; μ-Opioid receptor; Antinociception (Gergen, K.A. (316) 33)

Ventricular filling

Isovolumic relaxation; Myocardial contractility; Preload recruitable stroke work; Inotropes; Dobutamine; Bradycardic agents, specific; Zatebradine (Hettrick, D.A. (316) 237)

Ventricular myocyte, rat

Taurine; Na⁺-Ca²⁺ exchange; Patch-clamp (Katsube, Y. (316) 97)

WAY-100635

Microdialysis, in vivo; Citalopram; Penbutolol enantiomer; 5-HT_{1A} autoreceptor, raphe; 5-HT_{1A} receptor, postsynaptic; β-Adrenoceptor; Antidepressant augmentation (Hjorth, S. (316) 43)

Writhing test

Bradykinin; Bradykinin B₁ receptor; Bradykinin B₂ receptor; NPC 18521; Antinociception; Formalin; Capsaicin; Licking; Paw oedema; (Mouse); (Rat) (De Campos, R.O.P. (316) 277)

Xanthine antagonist resistance

Bronchoconstriction, adenosine-induced; Tracheal spirals; Cross-tachyphylaxis; Transport inhibitors; (Sensitized guinea pigs) (Thorne, J.R. (316) 263)

Zatebradine

Isovolumic relaxation; Ventricular filling; Myocardial contractility; Preload recruitable stroke work; Inotropes; Dobutamine; Bradycardic agents, specific (Hettrick, D.A. (316) 237)