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Acetylcholine

Muscarinic M₂ receptor antagonist; Cognitive enhancer; (Rodent); (Primate) (Carey, G.J. (431) 189)

Vasorelaxation; Isoproterenol; Nitric oxide (NO); (CGRP) (calcitonin gene-related peptide); (VIP) (vasoactive intestinal peptide) (Chan, S.L. (431) 229)

Adenosine A_{2A} receptor

Solubilisation; CHAPS; [³H]ZM 241385; Immunoprecipitation; Striatum (Harvey, V. (431) 171)

β₂-Adrenoceptor activity, constitutive

Fenoterol; Smooth muscle, bovine, tracheal; Airway reactivity (De Vries, B. (431) 353)

β-Adrenoceptor antagonist

Propranolol; Metoprolol; Excitatory amino acid receptor antagonist; Seizure; Electroshock, maximal (Luchowska, E. (431) 209)

Adult, rat

DNA synthesis; Proliferation; Glycyrhizin; Primary culture; Hepatocyte (Kimura, M. (431) 151)

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Airway reactivity

β₂-Adrenoceptor activity, constitutive; Fenoterol; Smooth muscle, bovine, tracheal (De Vries, B. (431) 353)

Aloe-emodin (1,8-dihydroxy-3-(hydroxymethyl)-anthraquinone)

Human lung squamous cell carcinoma cell line CH27; Apoptosis; Bcl-2 family protein; Cytochrome c; Caspase (Lee, H.-Z. (431) 287)

AMPA receptor

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Anaerobic glycolysis

Cardiomyocyte; Endothelin; Rotenone; Cytotoxicity; Mitochondria (Yuki, K. (431) 163)

Anandamide

cAMP; G-protein; Glaucoma; GTPγS; Intraocular pressure (Stamer, W.D. (431) 277)

Antioxidant

Diabetes; Aorta; Nitric oxide (NO); Lercanidipine; Leucoselect (Pinna, C. (431) 71)

Antipsychotic

Clozapine; Haloperidol; Dopamine electrophysiology; Obesity (Freeman, A.S. (431) 43)

Anxiety

Ketamine; Median raphe nucleus; 5-HT (5-hydroxytryptamine, serotonin); Fear; Memory (Babar, E. (431) 315)

Aorta

Diabetes; Nitric oxide (NO); Lercanidipine; Leucoselect; Antioxidant (Pinna, C. (431) 71)

Aortic ring, rat

L-Citrulline; L-Arginine; Nitric Oxide (NO); Vascular relaxation; Lipopolysaccharide (Raghavan, S.A.V. (431) 61)

Apoptosis

Aloe-emodin (1,8-dihydroxy-3-(hydroxymethyl)-anthraquinone); Human lung squamous cell carcinoma cell line CH27; Bcl-2 family protein; Cytochrome c; Caspase (Lee, H.-Z. (431) 287)

Neutrophil; Fluticasone propionate; Budesonide; Beclomethasone (Zhang, X. (431) 365)

Area postrema

AS-8112 ((*R*)-5-bromo-*N*-(1-ethyl-4-methylhexahydro-1*H*-1,4-diazepin-6-yl)-2-methoxy-6-methylamino-3-pyridinecarboxamide · 2 fumarate); *R*(+)-7-OH-DPAT (*R*(+)-7-hydroxy-2-(*N*,*N*-di-*n*-propylamino)tetra-line); Cisplatin; Emesis; (Ferret) (Yoshikawa, T. (431) 361)

L-Arginine

L-Citrulline; Nitric Oxide (NO); Vascular relaxation; Lipopolysaccharide; Aortic ring, rat (Raghavan, S.A.V. (431) 61)

AS-8112 ((*R*)-5-bromo-*N*-(1-ethyl-4-methylhexahydro-1*H*-1,4-diazepin-6-yl)-2-methoxy-6-methylamino-3-pyridinecarboxamide · 2 fumarate)

R(+)-7-OH-DPAT (*R*(+)-7-hydroxy-2-(*N*,*N*-di-*n*-propylamino)tetra-line); Cisplatin; Emesis; Area postrema; (Ferret) (Yoshikawa, T. (431) 361)

BALB/c, mouse

Kainate receptor; AMPA receptor; Radioligand binding (Bailey, A. (431) 305)

Bcl-2 family protein

Aloe-emodin (1,8-dihydroxy-3-(hydroxymethyl)-anthraquinone); Human lung squamous cell carcinoma cell line CH27; Apoptosis; Cytochrome c; Caspase (Lee, H.-Z. (431) 287)

Beclomethasone

Apoptosis; Neutrophil; Fluticasone propionate; Budesonide (Zhang, X. (431) 365)

Blood pressure

Cocaine; Cocaine metabolites; Heart rate; Squirrel monkeys (Schindler, C.W. (431) 53)

Bradykinin

Gallbladder; Prostaglandin E₂; Ca²⁺ channel (O’Riordan, A.M. (431) 245)

Bronchospasm

Cannabinoid CB₁ receptor; Lung; Noradrenaline release (Vizi, E.S. (431) 237)

Brown–Norway rat

Experimental asthma; Taurine (Cortijo, J. (431) 111)

Budesonide

Apoptosis; Neutrophil; Fluticasone propionate; Beclomethasone (Zhang, X. (431) 365)

Ca²⁺ channel

Gallbladder; Bradykinin; Prostaglandin E₂ (O’Riordan, A.M. (431) 245)

Caco-2 cell

Intestinal transport; Grepafloxacin; Levofloxacin (Yamaguchi, H. (431) 297)

cAMP

KF31327 (3-ethyl-8-[2-(4-hydroxymethylpiperidino)benzylamino]-2,3-dihydro-1*H*-imidazo[4,5-*g*]quinazoline-2-thione dihydrochloride); Phosphodiesterase 5 (cyclic GMP-specific phosphodiesterase); cGMP; Platelet; Sildenafil (Hirose, R. (431) 17)

Anandamide; G-protein; Glaucoma; GTPγS; Intraocular pressure (Stamer, W.D. (431) 277)

Cannabinoid CB₁ receptor

Lung; Noradrenaline release; Bronchospasm (Vizi, E.S. (431) 237)

Cardiomyocyte

Endothelin; Rotenone; Cytotoxicity; Anaerobic glycolysis; Mitochondria (Yuki, K. (431) 163)

Carrageenan

Hyperbaric oxygen; Diclofenac; Inflammation, acute; (Rat) (Sümen, G. (431) 265)

Caspase

Aloe-emodin (1,8-dihydroxy-3-(hydroxymethyl)-anthraquinone); Human lung squamous cell carcinoma cell line CH27; Apoptosis; Bcl-2 family protein; Cytochrome *c* (Lee, H.-Z. (431) 287)

c-Fos

Dextromethorphan; Drug abuse; Nocturnal behavior; Reward pathway (Jahng, J.W. (431) 47)

cGMP

KF31327 (3-ethyl-8-[2-(4-hydroxymethylpiperidino)benzylamino]-2,3-dihydro-1*H*-imidazo[4,5-*g*]quinazoline-2-thione dihydrochloride); Phosphodiesterase 5 (cyclic GMP-specific phosphodiesterase); cAMP; Platelet; Sildenafil (Hirose, R. (431) 17)

CHAPS

Adenosine A_{2A} receptor; Solubilisation; [³H]ZM 241385; Immunoprecipitation; Striatum (Harvey, V. (431) 171)

Circular muscle contraction

Peristaltic reflex; Small intestine; VIP receptor antagonist; PACAP (pituitary adenylate cyclase-activating peptide); (Guinea-pig) (Lázár, Z. (431) 259)

Cisplatin

AS-8112 ((*R*)-5-bromo-*N*-(1-ethyl-4-methylhexahydro-1*H*-1,4-diazepin-6-yl)-2-methoxy-6-methylamino-3-pyridinecarboxamide · 2 fumarate); *R*(+)-7-OH-DPAT (*R*(+)-7-hydroxy-2-(*N,N*-di-*n*-propylamino)tetraline); Emesis; Area postrema; (Ferret) (Yoshikawa, T. (431) 361)

L-Citrulline

L-Arginine; Nitric Oxide (NO); Vascular relaxation; Lipopolysaccharide; Aortic ring, rat (Raghavan, S.A.V. (431) 61)

Cl[−] channel

Exocytosis; Secretion; NGF; Mastoparan; Mast cell; Patch-clamp; Membrane potential (Roloff, T. (431) 1)

Cl[−] current, glycine-gated

Periaqueductal gray; Protein kinase C; Opioid (Jeong, H.-J. (431) 143)

Clozapine

Antipsychotic; Haloperidol; Dopamine electrophysiology; Obesity (Freeman, A.S. (431) 43)

Cocaine

Cocaine metabolites; Blood pressure; Heart rate; Squirrel monkeys (Schindler, C.W. (431) 53)

Cocaine metabolites

Cocaine; Blood pressure; Heart rate; Squirrel monkeys (Schindler, C.W. (431) 53)

Cognitive enhancer

Muscarinic M₂ receptor antagonist; Acetylcholine; (Rodent); (Primate) (Carey, G.J. (431) 189)

Colitis, rat

TNF-α (Tumour necrosis factor-α); Inflammatory bowel disease; Thalidomide derivative; Phthalimide derivative; Heterocarboxamide; JM 34 maleate (Bobin-Dubigeon, C. (431) 103)

Colon damage

DNBS (Dinitrobenzene sulfonic acid); Inflammation; Nitric oxide (NO); Peroxynitrite; Poly(ADP-ribose) polymerase; Free radicals; Cyclooxygenase-2 (Cuzzocrea, S. (431) 91)

Constipation

YM-31636; 5-HT₃ receptor agonist; Visceral pain; Defecation; Short-circuit current (Kiso, T. (431) 35)

Cross-tolerance

Rapid tolerance; Rota-rod; Δ⁹-Tetrahydrocannabinol; Ethanol; SR 141716A (Da Silva, G.E. (431) 201)

Cyclo-oxygenase-2

DNBS (Dinitrobenzene sulfonic acid); Inflammation; Nitric oxide (NO); Peroxynitrite; Poly(ADP-ribose) polymerase; Colon damage; Free radicals (Cuzzocrea, S. (431) 91)

Cytochrome *c*

Aloe-emodin (1,8-dihydroxy-3-(hydroxymethyl)-anthraquinone); Human lung squamous cell carcinoma cell line CH27; Apoptosis; Bcl-2 family protein; Caspase (Lee, H.-Z. (431) 287)

Cytotoxicity

Cardiomyocyte; Endothelin; Rotenone; Anaerobic glycolysis; Mitochondria (Yuki, K. (431) 163)

Defecation

YM-31636; 5-HT₃ receptor agonist; Visceral pain; Constipation; Short-circuit current (Kiso, T. (431) 35)

Dehydroepiandrosterone sulfate

Tolerance; Ethanol; Pregnenolone sulfate; (+)-MK-801; Muscimol (Barbosa, A.D.E. (431) 179)

Desensitization

G protein-coupled receptor kinase; δ -Opioid receptor; NG108-15 cell (Willets, J. (431) 133)

Dextromethorphan

c-Fos; Drug abuse; Nocturnal behavior; Reward pathway (Jahng, J.W. (431) 47)

Diabetes

Aorta; Nitric oxide (NO); Lercanidipine; Leucoselect; Antioxidant (Pinna, C. (431) 71)

Vasopressin; Renal vascular reactivity; Age; Nitric oxide (NO) (Loichot, C. (431) 321)

Diabetes mellitus

KAD-1229; Glibenclamide; Myocardial stunning; Sulfonylurea receptor (Ichikawa, K. (431) 331)

Diclofenac

Hyperbaric oxygen; Carrageenan; Inflammation, acute; (Rat) (Sümen, G. (431) 265)

DNA synthesis

Proliferation; Glycyrrhizin; Primary culture; Hepatocyte; Adult, rat (Kimura, M. (431) 151)

DNBS (Dinitrobenzene sulfonic acid)

Inflammation; Nitric oxide (NO); Peroxynitrite; Poly(ADP-ribose) polymerase; Colon damage; Free radicals; Cyclo-oxygenase-2 (Cuzzocrea, S. (431) 91)

Dopamine electrophysiology

Antipsychotic; Clozapine; Haloperidol; Obesity (Freeman, A.S. (431) 43)

Dorsal vagal complex

Vagus; Glutamate; Motility; Gastro-esophageal reflux (Lehmann, A. (431) 253)

Drug abuse

Dextromethorphan; c-Fos; Nocturnal behavior; Reward pathway (Jahng, J.W. (431) 47)

Electrophysiology

Euteric nervous system; Neuroimmune interaction; Thrombin receptor; Trypsin (Linden, D.R. (431) 311)

Electroshock, maximal

β -Adrenoceptor antagonist; Propranolol; Metoprolol; Excitatory amino acid receptor antagonist; Seizure (Luchowska, E. (431) 209)

Emesis

AS-8112 ((R)-5-bromo-N-(1-ethyl-4-methylhexahydro-1H-1,4-diazepin-6-yl)-2-methoxy-6-methylamino-3-pyridinecarboxamide · 2 fumarate); R(+)-7-OH-DPAT (R(+)-7-hydroxy-2-(N,N-di-n-propylamino)tetraline); Cisplatin; Area postrema; (Ferret) (Yoshikawa, T. (431) 361)

Endothelin

Cardiomyocyte; Rotenone; Cytotoxicity; Anaerobic glycolysis; Mitochondria (Yuki, K. (431) 163)

Ethanol

Tolerance; Pregnenolone sulfate; Dehydroepiandrosterone sulfate; (+)-MK-801; Muscimol (Barbosa, A.D.E. (431) 179)

Rapid tolerance; Cross-tolerance; Rota-rod; Δ^9 -Tetrahydrocannabinol; SR 141716A (Da Silva, G.E. (431) 201)

Euteric nervous system

Neuroimmune interaction; Electrophysiology; Thrombin receptor; Trypsin (Linden, D.R. (431) 311)

Excitatory amino acid receptor antagonist

β -Adrenoceptor antagonist; Propranolol; Metoprolol; Seizure; Electroshock, maximal (Luchowska, E. (431) 209)

Exocytosis

Secretion; Cl⁻ channel; NGF; Mastoparan; Mast cell; Patch-clamp; Membrane potential (Roloff, T. (431) 1)

Experimental asthma

Brown-Norway rat; Taurine (Cortijo, J. (431) 111)

Fatty acid

PPAR (peroxisome proliferator-activated receptor); Valproic acid; Nuclear receptor; Teratogenicity (Lampen, A. (431) 25)

Fear

Ketamine; Median raphe nucleus; 5-HT (5-hydroxytryptamine, serotonin); Anxiety; Memory (Babar, E. (431) 315)

Fenoterol

β_2 -Adrenoceptor activity, constitutive; Smooth muscle, bovine, tracheal; Airway reactivity (De Vries, B. (431) 353)

Fluticasone propionate

Apoptosis; Neutrophil; Budesonide; Beclomethasone (Zhang, X. (431) 365)

FR194738

Squalene epoxidase; Simvastatin; HMG-CoA reductase; HepG2 cell (Sawada, M. (431) 11)

Free radicals

DNBS (Dinitrobenzene sulfonic acid); Inflammation; Nitric oxide (NO); Peroxynitrite; Poly(ADP-ribose) polymerase; Colon damage; Cyclo-oxygenase-2 (Cuzzocrea, S. (431) 91)

GABA (γ -aminobutyric acid)

GABA_B receptor antagonist; Ileum; (Guinea pig) (Kristev, A.D. (431) 339)

GABA_B receptor antagonist

GABA (γ -aminobutyric acid); Ileum; (Guinea pig) (Kristev, A.D. (431) 339)

Gallbladder

Bradykinin; Prostaglandin E₂; Ca²⁺ channel (O'Riordan, A.M. (431) 245)

Gastro-esophageal reflux

Vagus; Glutamate; Dorsal vagal complex; Motility (Lehmann, A. (431) 253)

Glaucoma

Anandamide; cAMP; G-protein; GTP γ S; Intraocular pressure (Stamer, W.D. (431) 277)

Glibenclamide

KAD-1229; Myocardial stunning; Sulfonylurea receptor; Diabetes mellitus (Ichikawa, K. (431) 331)

Glutamate

Vagus; Dorsal vagal complex; Motility; Gastro-esophageal reflux (Lehmann, A. (431) 253)

Glycinergic synaptic bouton preparation

Trigeminal nucleus neuron; Mechanical dissociation; Isoflurane; Inhibitory postsynaptic current (Yamashita, M. (431) 269)

Glycyrrhizin

DNA synthesis; Proliferation; Primary culture; Hepatocyte; Adult, rat (Kimura, M. (431) 151)

G-protein

Anandamide; cAMP; Glaucoma; GTP γ S; Intraocular pressure (Stamer, W.D. (431) 277)

G protein-coupled receptor kinase

Desensitization; δ -Opioid receptor; NG108-15 cell (Willets, J. (431) 133)

Grepafloxacin

Intestinal transport; Levofloxacin; Caco-2 cell (Yamaguchi, H. (431) 297)

GTP γ S

Anandamide; cAMP; G-protein; Glaucoma; Intraocular pressure (Stamer, W.D. (431) 277)

Haloperidol

Antipsychotic; Clozapine; Dopamine electrophysiology; Obesity (Freeman, A.S. (431) 43)

Heart rate

Cocaine; Cocaine metabolites; Blood pressure; Squirrel monkeys (Schindler, C.W. (431) 53)

Hepatocyte

DNA synthesis; Proliferation; Glycyrrhizin; Primary culture; Adult, rat (Kimura, M. (431) 151)

HepG2 cell

FR194738; Squalene epoxidase; Simvastatin; HMG-CoA reductase (Sawada, M. (431) 11)

Heterocarboxamide

TNF- α (Tumour necrosis factor- α); Colitis, rat; Inflammatory bowel disease; Thalidomide derivative; Phthalimide derivative; JM 34 maleate (Bobin-Dubigeon, C. (431) 103)

Histamine

Histamine H₃ receptor; Histamine turnover; Thioperamide; Histamine N-methyltransferase; Methylation (Barnes, W. (431) 215)

Histamine H₃ receptor

Histamine; Histamine turnover; Thioperamide; Histamine N-methyltransferase; Methylation (Barnes, W. (431) 215)

Histamine N-methyltransferase

Histamine; Histamine H₃ receptor; Histamine turnover; Thioperamide; Methylation (Barnes, W. (431) 215)

Histamine turnover

Histamine; Histamine H₃ receptor; Thioperamide; Histamine N-methyltransferase; Methylation (Barnes, W. (431) 215)

HMG-CoA reductase

FR194738; Squalene epoxidase; Simvastatin; HepG2 cell (Sawada, M. (431) 11)

5-HT (5-hydroxytryptamine, serotonin)

Ketamine; Median raphe nucleus; Anxiety; Fear; Memory (Babar, E. (431) 315)

5-HT₃ receptor agonist

YM-31636; Visceral pain; Constipation; Defecation; Short-circuit current (Kiso, T. (431) 35)

Human lung squamous cell carcinoma cell line CH27

Aloe-emodin (1,8-dihydroxy-3-(hydroxymethyl)-anthraquinone); Apoptosis; Bcl-2 family protein; Cytochrome c; Caspase (Lee, H.-Z. (431) 287)

Hyperbaric oxygen

Diclofenac; Carrageenan; Inflammation, acute; (Rat) (Sümen, G. (431) 265)

Hypertriglyceridemia

Squalene synthase inhibitor; Triglyceride; Low-density lipoprotein (LDL) receptor; WHHL, rabbit (Hiyoshi, H. (431) 345)

Hypolipidemic effect

MTP inhibitor; Implitapide; VLDL (very low-density lipoprotein) secretion; WHHL, rabbit (Shiomi, M. (431) 127)

[³H]ZM 241385

Adenosine A_{2A} receptor; Solubilisation; CHAPS; Immunoprecipitation; Striatum (Harvey, V. (431) 171)

Ileum

GABA_B receptor antagonist; GABA (γ -aminobutyric acid); (Guinea pig) (Kristev, A.D. (431) 339)

Immunoprecipitation

Adenosine A_{2A} receptor; Solubilisation; CHAPS; [³H]ZM 241385; Striatum (Harvey, V. (431) 171)

Implitapide

MTP inhibitor; VLDL (very low-density lipoprotein) secretion; Hypolipidemic effect; WHHL, rabbit (Shiomi, M. (431) 127)

Inflammation

DNBS (Dinitrobenzene sulfonic acid); Nitric oxide (NO); Peroxynitrite; Poly(ADP-ribose) polymerase; Colon damage; Free radicals; Cyclooxygenase-2 (Cuzzocrea, S. (431) 91)

Inflammation, acute

Hyperbaric oxygen; Diclofenac; Carrageenan; (Rat) (Sümen, G. (431) 265)

Inflammatory bowel disease

TNF- α (Tumour necrosis factor- α); Colitis, rat; Thalidomide derivative; Phthalimide derivative; Heterocarboxamide; JM 34 maleate (Bobin-Dubigeon, C. (431) 103)

Inhibitory postsynaptic current

Trigeminal nucleus neuron; Mechanical dissociation; Isoflurane; Glycinergic synaptic bouton preparation (Yamashita, M. (431) 269)

Inhibitory receptor

Neuromuscular transmission; Isoprenaline; Propranolol; Salbutamol; (Rat) (Kalodimos, P.J. (431) 81)

Insulin secretion

K_{ATP} channel; Sulfonyleurea receptor (SUR); Mitiglinide; Nateglinide (Sunaga, Y. (431) 119)

Intestinal transport

Grepafloxacin; Levofloxacin; Caco-2 cell (Yamaguchi, H. (431) 297)

Intraocular pressure

Anandamide; cAMP; G-protein; Glaucoma; GTPγS (Stamer, W.D. (431) 277)

Isoflurane

Trigeminal nucleus neuron; Mechanical dissociation; Glycinergic synaptic bouton preparation; Inhibitory postsynaptic current (Yamashita, M. (431) 269)

Isoprenaline

Neuromuscular transmission; Inhibitory receptor; Propranolol; Salbutamol; (Rat) (Kalodimos, P.J. (431) 81)

Isoproterenol

Vasorelaxation; Nitric oxide (NO); Acetylcholine; (CGRP) (calcitonin gene-related peptide); (VIP) (vasoactive intestinal peptide) (Chan, S.L. (431) 229)

JM 34 maleate

TNF-α (Tumour necrosis factor-α); Colitis, rat; Inflammatory bowel disease; Thalidomide derivative; Phthalimide derivative; Heterocarboxamide (Bobin-Dubigeon, C. (431) 103)

KAD-1229

Glibenclamide; Myocardial stunning; Sulfonyleurea receptor; Diabetes mellitus (Ichikawa, K. (431) 331)

Kainate receptor

AMPA receptor; Radioligand binding; BALB/c, mouse (Bailey, A. (431) 305)

K_{ATP} channel

Sulfonyleurea receptor (SUR); Mitiglinide; Nateglinide; Insulin secretion (Sunaga, Y. (431) 119)

Ketamine

Median raphe nucleus; 5-HT (5-hydroxytryptamine, serotonin); Anxiety; Fear; Memory (Babar, E. (431) 315)

KF31327 (3-ethyl-8-[2-(4-hydroxymethylpiperidino)benzylaminol]-2,3-dihydro-1*H*-imidazol[4,5-*g*]quinazoline-2-thione dihydrochloride)

Phosphodiesterase 5 (cyclic GMP-specific phosphodiesterase); cAMP; cGMP; Platelet; Sildenafil (Hirose, R. (431) 17)

Learning

σ₁ Receptor; PRE-084; Water maze test; Memory; Aged, rat (Maurice, T. (431) 223)

Lercanidipine

Diabetes; Aorta; Nitric oxide (NO); Leucoselect; Antioxidant (Pinna, C. (431) 71)

Leucoselect

Diabetes; Aorta; Nitric oxide (NO); Lercanidipine; Antioxidant (Pinna, C. (431) 71)

Levofloxacin

Intestinal transport; Grepafloxacin; Caco-2 cell (Yamaguchi, H. (431) 297)

Lipopolysaccharide

L-Citrulline; L-Arginine; Nitric Oxide (NO); Vascular relaxation; Aortic ring, rat (Raghavan, S.A.V. (431) 61)

Low-density lipoprotein (LDL) receptor

Squalene synthase inhibitor; Triglyceride; WHHL, rabbit; Hypertriglyceridemia (Hiyoshi, H. (431) 345)

Lung

Cannabinoid CB₁ receptor; Noradrenaline release; Bronchospasm (Vizi, E.S. (431) 237)

Mast cell

Exocytosis; Secretion; Cl[−] channel; NGF; Mastoparan; Patch-clamp; Membrane potential (Roloff, T. (431) 1)

Mastoparan

Exocytosis; Secretion; Cl[−] channel; NGF; Mast cell; Patch-clamp; Membrane potential (Roloff, T. (431) 1)

Mechanical dissociation

Trigeminal nucleus neuron; Isoflurane; Glycinergic synaptic bouton preparation; Inhibitory postsynaptic current (Yamashita, M. (431) 269)

Median raphe nucleus

Ketamine; 5-HT (5-hydroxytryptamine, serotonin); Anxiety; Fear; Memory (Babar, E. (431) 315)

Membrane potential

Exocytosis; Secretion; Cl[−] channel; NGF; Mastoparan; Mast cell; Patch-clamp (Roloff, T. (431) 1)

Memory

σ₁ Receptor; PRE-084; Water maze test; Learning; Aged, rat (Maurice, T. (431) 223)

Ketamine; Median raphe nucleus; 5-HT (5-hydroxytryptamine, serotonin); Anxiety; Fear (Babar, E. (431) 315)

Methylation

Histamine; Histamine H₃ receptor; Histamine turnover; Thioperamide; Histamine *N*-methyltransferase (Barnes, W. (431) 215)

Metoprolol

β-Adrenoceptor antagonist; Propranolol; Excitatory amino acid receptor antagonist; Seizure; Electroshock, maximal (Luchowska, E. (431) 209)

Mitiglinide

K_{ATP} channel; Sulfonyleurea receptor (SUR); Nateglinide; Insulin secretion (Sunaga, Y. (431) 119)

Mitochondria

Cardiomyocyte; Endothelin; Rotenone; Cytotoxicity; Anaerobic glycolysis (Yuki, K. (431) 163)

(+)-MK-801

Tolerance; Ethanol; Pregnenolone sulfate; Dehydroepiandrosterone sulfate; Muscimol (Barbosa, A.D.E. (431) 179)

Motility

Vagus; Glutamate; Dorsal vagal complex; Gastro-esophageal reflux (Lehmann, A. (431) 253)

MTP inhibitor

Implipatide; VLDL (very low-density lipoprotein) secretion; Hypolipidemic effect; WHHL, rabbit (Shiomi, M. (431) 127)

Muscarinic M₂ receptor antagonist

Acetylcholine; Cognitive enhancer; (Rodent); (Primate) (Carey, G.J. (431) 189)

Muscimol

Tolerance; Ethanol; Pregnenolone sulfate; Dehydroepiandrosterone sulfate; (+)-MK-801 (Barbosa, A.D.E. (431) 179)

Myocardial stunning

KAD-1229; Glibenclamide; Sulfonyleurea receptor; Diabetes mellitus (Ichikawa, K. (431) 331)

Nateglinide

K_{ATP} channel; Sulfonyleurea receptor (SUR); Mitiglinide; Insulin secretion (Sunaga, Y. (431) 119)

Neuroimmune interaction

Euteric nervous system; Electrophysiology; Thrombin receptor; Trypsin (Linden, D.R. (431) 311)

Neuromuscular transmission

Inhibitory receptor; Isoprenaline; Propranolol; Salbutamol; (Rat) (Kalodimos, P.J. (431) 81)

Neutrophil

Apoptosis; Fluticasone propionate; Budesonide; Beclomethasone (Zhang, X. (431) 365)

NG108-15 cell

Desensitization; G protein-coupled receptor kinase; δ -Opioid receptor (Willems, J. (431) 133)

NGF

Exocytosis; Secretion; Cl⁻ channel; Mastoparan; Mast cell; Patch-clamp; Membrane potential (Roloff, T. (431) 1)

Nitric oxide (NO)

L-Citrulline; L-Arginine; Vascular relaxation; Lipopolysaccharide; Aortic ring, rat (Raghavan, S.A.V. (431) 61)

Diabetes; Aorta; Lercanidipine; Leucoselect; Antioxidant (Pinna, C. (431) 71)

DNBS (Dinitrobenzene sulfonic acid); Inflammation; Peroxynitrite; Poly(ADP-ribose) polymerase; Colon damage; Free radicals; Cyclo-oxygenase-2 (Cuzzocrea, S. (431) 91)

Vasorelaxation; Isoproterenol; Acetylcholine; (CGRP) (calcitonin gene-related peptide); (VIP) (vasoactive intestinal peptide) (Chan, S.L. (431) 229)

Vasopressin; Renal vascular reactivity; Diabetes; Age (Loichot, C. (431) 321)

Nocturnal behavior

Dextromethorphan; c-Fos; Drug abuse; Reward pathway (Jahng, J.W. (431) 47)

Noradrenaline release

Cannabinoid CB₁ receptor; Lung; Bronchospasm (Vizi, E.S. (431) 237)

Nuclear receptor

PPAR (peroxisome proliferator-activated receptor); Valproic acid; Fatty acid; Teratogenicity (Lampen, A. (431) 25)

Obesity

Antipsychotic; Clozapine; Haloperidol; Dopamine electrophysiology (Freeman, A.S. (431) 43)

Opioid

Periaqueductal gray; Cl⁻ current, glycine-gated; Protein kinase C (Jeong, H.-J. (431) 143)

 δ -Opioid receptor

Desensitization; G protein-coupled receptor kinase; NG108-15 cell (Willems, J. (431) 133)

PACAP (pituitary adenylate cyclase-activating peptide)

Peristaltic reflex; Circular muscle contraction; Small intestine; VIP receptor antagonist; (Guinea-pig) (Lázár, Z. (431) 259)

Patch-clamp

Exocytosis; Secretion; Cl⁻ channel; NGF; Mastoparan; Mast cell; Membrane potential (Roloff, T. (431) 1)

Periaqueductal gray

Cl⁻ current, glycine-gated; Protein kinase C; Opioid (Jeong, H.-J. (431) 143)

Peristaltic reflex

Circular muscle contraction; Small intestine; VIP receptor antagonist; PACAP (pituitary adenylate cyclase-activating peptide); (Guinea-pig) (Lázár, Z. (431) 259)

Peroxynitrite

DNBS (Dinitrobenzene sulfonic acid); Inflammation; Nitric oxide (NO); Poly(ADP-ribose) polymerase; Colon damage; Free radicals; Cyclo-oxygenase-2 (Cuzzocrea, S. (431) 91)

Phosphodiesterase 5 (cyclic GMP-specific phosphodiesterase)

KF31327 (3-ethyl-8-[2-(4-hydroxymethylpiperidino)benzylamino]-2,3-dihydro-1H-imidazo[4,5-g]quinazoline-2-thione dihydrochloride); cAMP; cGMP; Platelet; Sildenafil (Hirose, R. (431) 17)

Phthalimide derivative

TNF- α (Tumour necrosis factor- α); Colitis, rat; Inflammatory bowel disease; Thalidomide derivative; Heterocarboxamide; JM 34 maleate (Bobin-Dubigeon, C. (431) 103)

Platelet

KF31327 (3-ethyl-8-[2-(4-hydroxymethylpiperidino)benzylamino]-2,3-dihydro-1H-imidazo[4,5-g]quinazoline-2-thione dihydrochloride); Phosphodiesterase 5 (cyclic GMP-specific phosphodiesterase); cAMP; cGMP; Sildenafil (Hirose, R. (431) 17)

Poly(ADP-ribose) polymerase

DNBS (Dinitrobenzene sulfonic acid); Inflammation; Nitric oxide (NO); Peroxynitrite; Colon damage; Free radicals; Cyclo-oxygenase-2 (Cuzzocrea, S. (431) 91)

PPAR (peroxisome proliferator-activated receptor)

Valproic acid; Nuclear receptor; Fatty acid; Teratogenicity (Lampen, A. (431) 25)

PRE-084

σ_1 Receptor; Water maze test; Learning; Memory; Aged, rat (Maurice, T. (431) 223)

Pregnenolone sulfate

Tolerance; Ethanol; Dehydroepiandrosterone sulfate; (+)-MK-801; Muscimol (Barbosa, A.D.E. (431) 179)

Primary culture

DNA synthesis; Proliferation; Glycyrrhizin; Hepatocyte; Adult, rat (Kimura, M. (431) 151)

Proliferation

DNA synthesis; Glycyrrhizin; Primary culture; Hepatocyte; Adult, rat (Kimura, M. (431) 151)

Propranolol

Neuromuscular transmission; Inhibitory receptor; Isoprenaline; Salbutamol; (Rat) (Kalodimos, P.J. (431) 81)

β -Adrenoceptor antagonist; Metoprolol; Excitatory amino acid receptor antagonist; Seizure; Electroshock, maximal (Luchowska, E. (431) 209)

Prostaglandin E₂

Gallbladder; Bradykinin; Ca²⁺ channel (O'Riordan, A.M. (431) 245)

Protein kinase C

Periaqueductal gray; Cl⁻ current, glycine-gated; Opioid (Jeong, H.-J. (431) 143)

Radioligand binding

Kainate receptor; AMPA receptor; BALB/c, mouse (Bailey, A. (431) 305)

Rapid tolerance

Cross-tolerance; Rota-rod; Δ^9 -Tetrahydrocannabinol; Ethanol; SR 141716A (Da Silva, G.E. (431) 201)

 σ_1 Receptor

PRE-084; Water maze test; Learning; Memory; Aged, rat (Maurice, T. (431) 223)

Renal vascular reactivity

Vasopressin; Diabetes; Age; Nitric oxide (NO) (Loichot, C. (431) 321)

Reward pathway

Dextromethorphan; c-Fos; Drug abuse; Nocturnal behavior (Jahng, J.W. (431) 47)

R(+)-7-OH-DPAT (R(+)-7-hydroxy-2-(N,N-di-n-propylamino)tetraline)

AS-8112 ((R)-5-bromo-N-(1-ethyl-4-methylhexahydro-1H-1,4-diazepin-6-yl)-2-methoxy-6-methylamino-3-pyridinecarboxamide · 2 fumarate); Cisplatin; Emesis; Area postrema; (Feret) (Yoshikawa, T. (431) 361)

Rota-rod

Rapid tolerance; Cross-tolerance; Δ^9 -Tetrahydrocannabinol; Ethanol; SR 141716A (Da Silva, G.E. (431) 201)

Rotenone

Cardiomyocyte; Endothelin; Cytotoxicity; Anaerobic glycolysis; Mitochondria (Yuki, K. (431) 163)

Salbutamol

Neuromuscular transmission; Inhibitory receptor; Isoprenaline; Propranolol; (Rat) (Kalodimos, P.J. (431) 81)

Secretion

Exocytosis; Cl⁻ channel; NGF; Mastoparan; Mast cell; Patch-clamp; Membrane potential (Roloff, T. (431) 1)

Seizure

β -Adrenoceptor antagonist; Propranolol; Metoprolol; Excitatory amino acid receptor antagonist; Electroshock, maximal (Luchowska, E. (431) 209)

Short-circuit current

YM-31636; 5-HT₃ receptor agonist; Visceral pain; Constipation; Defecation (Kiso, T. (431) 35)

Sildenafil

KF31327 (3-ethyl-8-[2-(4-hydroxymethyl)piperidino]benzylamino]-2,3-dihydro-1H-imidazo[4,5-g]quinazoline-2-thione dihydrochloride); Phosphodiesterase 5 (cyclic GMP-specific phosphodiesterase); cAMP; cGMP; Platelet (Hirose, R. (431) 17)

Simvastatin

FR194738; Squalene epoxidase; HMG-CoA reductase; HepG2 cell (Sawada, M. (431) 11)

Small intestine

Peristaltic reflex; Circular muscle contraction; VIP receptor antagonist; PACAP (pituitary adenylate cyclase-activating peptide); (Guinea-pig) (Lázár, Z. (431) 259)

Smooth muscle, bovine, tracheal

β_2 -Adrenoceptor activity, constitutive; Fenoterol; Airway reactivity (De Vries, B. (431) 353)

Solubilisation

Adenosine A_{2A} receptor; CHAPS; [³H]ZM 241385; Immunoprecipitation; Striatum (Harvey, V. (431) 171)

Squalene epoxidase

FR194738; Simvastatin; HMG-CoA reductase; HepG2 cell (Sawada, M. (431) 11)

Squalene synthase inhibitor

Triglyceride; Low-density lipoprotein (LDL) receptor; WHHL, rabbit; Hypertriglyceridemia (Hiyoshi, H. (431) 345)

Squirrel monkeys

Cocaine; Cocaine metabolites; Blood pressure; Heart rate (Schindler, C.W. (431) 53)

SR 141716A

Rapid tolerance; Cross-tolerance; Rota-rod; Δ^9 -Tetrahydrocannabinol; Ethanol (Da Silva, G.E. (431) 201)

Striatum

Adenosine A_{2A} receptor; Solubilisation; CHAPS; [³H]ZM 241385; Immunoprecipitation (Harvey, V. (431) 171)

Sulfonylurea receptor

KAD-1229; Glibenclamide; Myocardial stunning; Diabetes mellitus (Ichikawa, K. (431) 331)

Sulfonylurea receptor (SUR)

K_{ATP} channel; Mitiglinide; Nateglinide; Insulin secretion (Sunaga, Y. (431) 119)

Taurine

Experimental asthma; Brown-Norway rat (Cortijo, J. (431) 111)

Teratogenicity

PPAR (peroxisome proliferator-activated receptor); Valproic acid; Nuclear receptor; Fatty acid (Lampen, A. (431) 25)

 Δ^9 -Tetrahydrocannabinol

Rapid tolerance; Cross-tolerance; Rota-rod; Ethanol; SR 141716A (Da Silva, G.E. (431) 201)

Thalidomide derivative

TNF- α (Tumour necrosis factor- α); Colitis, rat; Inflammatory bowel disease; Phthalimide derivative; Heterocarboxamide; JM 34 maleate (Bobin-Dubigeon, C. (431) 103)

Thiopramide

Histamine; Histamine H₃ receptor; Histamine turnover; Histamine N-methyltransferase; Methylation (Barnes, W. (431) 215)

Thrombin receptor

Euteric nervous system; Neuroimmune interaction; Electrophysiology; Trypsin (Linden, D.R. (431) 311)

TNF- α (Tumour necrosis factor- α)

Colitis, rat; Inflammatory bowel disease; Thalidomide derivative; Phthalimide derivative; Heterocarboxamide; JM 34 maleate (Bobin-Dubigeon, C. (431) 103)

Tolerance

Ethanol; Pregnenolone sulfate; Dehydroepiandrosterone sulfate; (+)-MK-801; Muscimol (Barbosa, A.D.E. (431) 179)

Trigeminal nucleus neuron

Mechanical dissociation; Isoflurane; Glycinergic synaptic bouton preparation; Inhibitory postsynaptic current (Yamashita, M. (431) 269)

Triglyceride

Squalene synthase inhibitor; Low-density lipoprotein (LDL) receptor; WHHL, rabbit; Hypertriglyceridemia (Hiyoshi, H. (431) 345)

Trypsin

Euteric nervous system; Neuroimmune interaction; Electrophysiology; Thrombin receptor (Linden, D.R. (431) 311)

Vagus

Glutamate; Dorsal vagal complex; Motility; Gastro-esophageal reflux (Lehmann, A. (431) 253)

Valproic acid

PPAR (peroxisome proliferator-activated receptor); Nuclear receptor; Fatty acid; Teratogenicity (Lampen, A. (431) 25)

Vascular relaxation

L-Citrulline; L-Arginine; Nitric Oxide (NO); Lipopolysaccharide; Aortic ring, rat (Raghavan, S.A.V. (431) 61)

Vasopressin

Renal vascular reactivity; Diabetes; Age; Nitric oxide (NO) (Loichot, C. (431) 321)

Vasorelaxation

Isoproterenol; Nitric oxide (NO); Acetylcholine; (CGRP) (calcitonin gene-related peptide); (VIP) (vasoactive intestinal peptide) (Chan, S.L. (431) 229)

VIP receptor antagonist

Peristaltic reflex; Circular muscle contraction; Small intestine; PACAP (pituitary adenylate cyclase-activating peptide); (Guinea-pig) (Lázár, Z. (431) 259)

Visceral pain

YM-31636; 5-HT₃ receptor agonist; Constipation; Defecation; Short-circuit current (Kiso, T. (431) 35)

VLDL (very low-density lipoprotein) secretion

MTP inhibitor; Implitapide; Hypolipidemic effect; WHHL, rabbit (Shiomi, M. (431) 127)

Water maze test

σ_1 Receptor; PRE-084; Learning; Memory; Aged, rat (Maurice, T. (431) 223)

WHHL, rabbit

MTP inhibitor; Implitapide; VLDL (very low-density lipoprotein) secretion; Hypolipidemic effect (Shiomi, M. (431) 127)

Squalene synthase inhibitor; Triglyceride; Low-density lipoprotein (LDL) receptor; Hypertriglyceridemia (Hiyoshi, H. (431) 345)

YM-31636

5-HT₃ receptor agonist; Visceral pain; Constipation; Defecation; Short-circuit current (Kiso, T. (431) 35)