

Keyword index

Acetylcholine

Atrium AF-DX 116, human; HHSiD (*p*-fluorohexahydro-siladifenidol hydrochloride); McN-A-343; Muscarinic receptor; Myocardial contractility; Pirenzepine; Ventricle (Du, X.Y. (284) 119)

Acetylcholine release

Noradrenaline release; GABA release; Galantide (Akehira, K. (284) 149)

Acid

8-OH-DPAT (($\pm$)-8-hydroxy-2-(*n*-dipropylamino)tetralin); Adrenal gland; Gastrointestinal system, rat; 5-HT_{1A} receptor (Gidener, S. (284) 19)

Adrenal gland

8-OH-DPAT (($\pm$)-8-hydroxy-2-(*n*-dipropylamino)tetralin); Gastrointestinal system, rat; 5-HT_{1A} receptor; Acid (Gidener, S. (284) 19)

α -Adrenoceptor

Renal blood flow; Catecholamine release; Angiotensin II; Renal nerve; Prazosin (Chen, K. (284) 281)

Atropine; Aorta; Cerebral cortex; (Rat) (Chang, K.C. (284) 331)

α_2 -Adrenoceptor subtype

[³H]MK912; [³H]RX821002; (Pig) (Wikberg-Matsson, A. (284) 271)

Airway, human

Asthma; TNF- α (tumor necrosis factor- α); Cytokine; Bronchial hyperresponsiveness; Electrical field stimulation (Anticevich, S.Z. (284) 221)

Allergic conjunctivitis

Nitric oxide (NO); Vascular permeability; *N*^G-Nitro-L-arginine methyl ester; Aminoguanidine; Histamine; PAF (platelet-activating factor) (Meijer, F. (284) 61)

Allergic inflammation

Macrophage inflammatory protein 2; Dexamethasone; Chemotactic factor (Tanabe, J.-i. (284) 257)

Aminoguanidine

Nitric oxide (NO); Allergic conjunctivitis; Vascular permeability; *N*^G-Nitro-L-arginine methyl ester; Histamine; PAF (platelet-activating factor) (Meijer, F. (284) 61)

AMPA/kainate receptor

Desensitizing current, fast; GAMS (γ -D-glutamylaminomethylsulfonic acid); 6-Cyano-7-nitroquinoxaline-2,3-dione; Hippocampal neuron, rat (Wilsch, V.W. (284) 141)

β -Amyloid-(1–40)

Long-term potentiation; Glutamatergic synaptic transmission (Wu, J. (284) R1)

Analgesia

β -Carotene; Morphine (Penn, N.W. (284) 191)

Glutamate; MK-801; CNQX (6-cyano-7-nitroquinoxaline-2,3-dione); Inflammation; Pain (Jackson, D.L. (284) 321)

Angiotensin II

UP 269-6; Losartan; Angiotensin II receptor antagonist; Blood pressure; Heart rate (Cazes, M. (284) 157)

Renal blood flow; Catecholamine release; Renal nerve; Prazosin; α -Adrenoceptor (Chen, K. (284) 281)

Angiotensin II receptor antagonist

UP 269-6; Losartan; Angiotensin II; Blood pressure; Heart rate (Cazes, M. (284) 157)

Animal model

Parkinson's disease; Lamotrigine (Löschmann, P.-A. (284) 129)

Antiarrhythmic, class Ia

Patch clamp; Disopyramide; Skeletal muscle; K_{ATP} channel; Channel inhibition, pH dependent (Moser, C. (284) 35)

Anticonvulsant

Anxiolytic; Separation-induced vocalization; Audiogenic seizure; Glycine receptor, strychnine-insensitive; NMDA receptor; (DBA/2J mouse); (Rat pup) (Kehne, J.H. (284) 109)

Antidepressant

β -Endorphin-(10–16); Prolyl-leucyl-glycinamide; TRH (thyrotropin-releasing hormone); Melatonin; Nucleus accumbens (Hatta, K. (284) 327)

Antinociception

Antisense oligodeoxynucleotide; δ -Opioid receptor; Desensitization (Narita, M. (284) 185)

Antisense oligodeoxynucleotide

δ -Opioid receptor; Desensitization; Antinociception (Narita, M. (284) 185)

Morphine; μ -Opioid receptor; δ -Opioid receptor; Growth hormone; Pro-lactin (Idänpään-Heikkilä, J.J. (284) 227)

Anxiolytic

Anticonvulsant; Separation-induced vocalization; Audiogenic seizure; Glycine receptor, strychnine-insensitive; NMDA receptor; (DBA/2J mouse); (Rat pup) (Kehne, J.H. (284) 109)

Anxiolytic activity

5-HT_{1A} receptor; Ipsapirone; (*S*)-WAY 100135; Punishment; Conflict (Cervo, L. (284) 249)

Aorta

Atropine; α -Adrenoceptor; Cerebral cortex; (Rat) (Chang, K.C. (284) 331)

Aorta, human

Phosphodiesterase; cGMP-specific phosphodiesterase (phosphodiesterase V); E4021; Vasorelaxant (Miyahara, M. (284) 25)

Apamin

Proximal duodenum, rat; Nitric oxide (NO); NANC (non-adrenergic, non-cholinergic) nerve; Smooth muscle relaxation; K⁺ channel; cGMP (Martins, S.L.R. (284) 265)

Apomorphine

Cocaine; Deoxyglucose; Brain metabolism; Nucleus accumbens (Pontieri, F.E. (284) 205)

Arteriovenous anastomose

α -CGRP (calcitonin gene-related peptide); Dihydroergotamine; Heart; Migraine, pig; Sumatriptan (Van Gelderen, E.M. (284) 51)

Asthma

TNF- α (tumor necrosis factor- α); Cytokine; Bronchial hyperresponsiveness; Electrical field stimulation; Airway, human (Anticevich, S.Z. (284) 221)

ATP

Nitric oxide (NO); Endothelium; Microvasculature; Neurogenic inflammation; Substance P; 5-HT (5-hydroxytryptamine, serotonin) (Ralevic, V. (284) 231)

Atrium AF-DX 116, human

Acetylcholine; HHSiD (*p*-fluorohexahydro-siladifenidol hydrochloride); McN-A-343; Muscarinic receptor; Myocardial contractility; Pirenzepine; Ventricle (Du, X.Y. (284) 119)

Atropine

α -Adrenoceptor; Aorta; Cerebral cortex; (Rat) (Chang, K.C. (284) 331)

Audiogenic seizure

Anticonvulsant; Anxiolytic; Separation-induced vocalization; Glycine receptor, strychnine-insensitive; NMDA receptor; (DBA/2J mouse); (Rat pup) (Kehne, J.H. (284) 109)

Autoreceptor

Presynaptic action; Glutamate; Grease-gap; Hippocampus; (D.C. potential) (Shew, T.R. (284) 93)

Benzomorphan

NMDA receptor; NMDA (*N*-methyl-D-aspartate); Excitotoxicity (Sawyer, D.C. (284) 309)

Binding site

Glibenclamide (Glyburide); Hypoglycemic agent; Liver; Sulfonyleurea compound (Inoue, Y. (284) 77)

Blood pressure

UP 269-6; Losartan; Angiotensin II; Angiotensin II receptor antagonist; Heart rate (Cazes, M. (284) 157)

BQ-123

Endothelin; Nitric oxide (NO); Cerebral vasospasm; Subarachnoid hemorrhage (Hirose, H. (284) 335)

Bradykinesia

Riluzole; Neuroprotection; MPTP (1-methyl-4-phenyl-1,2,3,6-tetrahydropyridine); Rigidity; Dopamine release; Parkinson's disease; (Rhesus monkey) (Benazzouz, A. (284) 299)

Bradykinin

Endotoxin; Vascular permeability; Kininogen-deficient rat; PAF (platelet-activating factor); PAF receptor antagonist (Ueno, A. (284) 211)

Brain

Opioid; Growth; Development; Liver; (Intracerebroventricular) (Bartolome, J.V. (284) 43)

Brain metabolism

Cocaine; Apomorphine; Deoxyglucose; Nucleus accumbens (Pontieri, F.E. (284) 205)

Bronchial hyperresponsiveness

Asthma; TNF- α (tumor necrosis factor- α); Cytokine; Electrical field stimulation; Airway, human (Anticevich, S.Z. (284) 221)

Butorphanol

Opioid; Physical dependence; Protein kinase; Morphine; H-7; H-8 (Tokuyama, S. (284) 101)

Cannabinoid

Cannabinoid receptor antagonist; SR141716A; Vas deferens, mouse; 1-Pentyl-2-methyl-3-(1-naphthoyl)indole; 1-Pentyl-3-(1-naphthoyl)pyrrole; 1-Heptyl-3-(1-naphthoyl)indole (Pertwee, R.G. (284) 241)

Cannabinoid receptor antagonist

Cannabinoid; SR141716A; Vas deferens, mouse; 1-Pentyl-2-methyl-3-(1-naphthoyl)indole; 1-Pentyl-3-(1-naphthoyl)pyrrole; 1-Heptyl-3-(1-naphthoyl)indole (Pertwee, R.G. (284) 241)

Carboxypeptidase Y, urinary

Ebelactone B; Kininogen-deficient rat; Deoxycorticosterone acetate-salt hypertension; Na⁺ excretion (Majima, M. (284) 1)

Cardiomyocyte

SPM3672; Nitric oxide (NO) donor; Nitric oxide (NO); Heart muscle, contractility (Kojda, G. (284) 315)

 β -Carotene

Morphine; Analgesia (Penn, N.W. (284) 191)

Catecholamine

Monoamine oxidase A; Estrogen receptor; Neural cell; Estrogen (Ma, Z.-Q. (284) 171)

Catecholamine release

Renal blood flow; Angiotensin II; Renal nerve; Prazosin; α -Adrenoceptor (Chen, K. (284) 281)

Cerebral cortex

Atropine; α -Adrenoceptor; Aorta; (Rat) (Chang, K.C. (284) 331)

Cerebral vasospasm

BQ-123; Endothelin; Nitric oxide (NO); Subarachnoid hemorrhage (Hirose, H. (284) 335)

 α -CGRP (calcitonin gene-related peptide)

Arteriovenous anastomose; Dihydroergotamine; Heart; Migraine, pig; Sumatriptan (Van Gelderen, E.M. (284) 51)

Channel inhibition, pH dependent

Patch clamp; Antiarrhythmic, class Ia; Disopyramide; Skeletal muscle; K_{ATP} channel (Moser, C. (284) 35)

Chemotactic factor

Macrophage inflammatory protein 2; Allergic inflammation; Dexamethasone (Tanabe, J.-i. (284) 257)

Cimetidine

Islets of Langerhans; Endocrine pancreas; Imidazoline receptor; Imidazoline I₁ site; Moxonidine; Efaroxan; Diazoxide; Insulin secretion (Tsoli, E. (284) 199)

CNQX (6-cyano-7-nitroquinoxaline-2,3-dione)

Glutamate; MK-801; Inflammation; Pain; Analgesia (Jackson, D.L. (284) 321)

Cocaine

Apomorphine; Deoxyglucose; Brain metabolism; Nucleus accumbens (Pontieri, F.E. (284) 205)

Conflict

5-HT_{1A} receptor; Ipsapirone; (*S*)-WAY 100135; Punishment; Anxiolytic activity (Cervo, L. (284) 249)

6-Cyano-7-nitroquinoxaline-2,3-dione

AMPA/kainate receptor; Desensitizing current, fast; GAMS (γ -D-glutamylaminomethylsulfonic acid); Hippocampal neuron, rat (Wilsch, V.W. (284) 141)

Cytokine

Asthma; TNF- α (tumor necrosis factor- α); Bronchial hyperresponsiveness; Electrical field stimulation; Airway, human (Anticevich, S.Z. (284) 221)

Deoxycorticosterone acetate-salt hypertension

Ebelactone B; Carboxypeptidase Y, urinary; Kininogen-deficient rat; Na⁺ excretion (Majima, M. (284) 1)

Deoxyglucose

Cocaine; Apomorphine; Brain metabolism; Nucleus accumbens (Pontieri, F.E. (284) 205)

Des-Asp-angiotensin I

Losartan; PD123319; Pulmonary artery, rabbit; Transmural stimulation; (Superfusion) (Sim, M.K. (284) 215)

Desensitization

Antisense oligodeoxynucleotide; δ -Opioid receptor; Antinociception (Narita, M. (284) 185)

Desensitizing current, fast

AMPA/kainate receptor; GAMS (γ -D-glutamylaminomethylsulfonic acid); 6-Cyano-7-nitroquinoxaline-2,3-dione; Hippocampal neuron, rat (Wilsch, V.W. (284) 141)

Detrusor smooth muscle

Electrical response; Excitatory junctional potential; (Contraction) (Hashitani, H. (284) 177)

Development

Opioid; Growth; Brain; Liver; (Intracerebroventricular) (Bartolome, J.V. (284) 43)

Dexamethasone

Macrophage inflammatory protein 2; Allergic inflammation; Chemotactic factor (Tanabe, J.-i. (284) 257)

Diazoxide

Islets of Langerhans; Endocrine pancreas; Imidazoline receptor; Imidazoline I₁ site; Moxonidine; Efaroxan; Cimetidine; Insulin secretion (Tsoli, E. (284) 199)

Dihydroergotamine

Arteriovenous anastomose; α -CGRP (calcitonin gene-related peptide); Heart; Migraine, pig; Sumatriptan (Van Gelderen, E.M. (284) 51)

Disopyramide

Patch clamp; Antiarrhythmic, class Ia; Skeletal muscle; K_{ATP} channel; Channel inhibition, pH dependent (Moser, C. (284) 35)

Dopamine

Yawning; Sprague-Dawley rat; F344 rat (Tang, A.H. (284) 13)

Striatum; GABA-ergic drug; Kainic acid (Smolders, I. (284) 83)

Dopamine receptor

Na⁺-pump; Phosphoinositide hydrolysis; Pertussis toxin; Vascular tone (Rashed, S.M.K. (284) 289)

Dopamine release

Riluzole; Neuroprotection; MPTP (1-methyl-4-phenyl-1,2,3,6-tetrahydropyridine); Bradykinesia; Rigidity; Parkinson's disease; (Rhesus monkey) (Benazzouz, A. (284) 299)

Drug discrimination

Flesinoxan; 5-HT_{1A} receptor; (*S*)-UH301, enantiomer; WAY-100635; Fentanyl (Gommans, J. (284) 135)

Morphine; μ_1 -Opioid receptor (Suzuki, T. (284) 195)

E4021

Phosphodiesterase; cGMP-specific phosphodiesterase (phosphodiesterase V); Vasorelaxant; Aorta, human (Miyahara, M. (284) 25)

Ebelactone B

Carboxypeptidase Y, urinary; Kininogen-deficient rat; Deoxycorticosterone acetate-salt hypertension; Na⁺ excretion (Majima, M. (284) 1)

Efaroxan

Islets of Langerhans; Endocrine pancreas; Imidazoline receptor; Imidazoline I₁ site; Moxonidine; Cimetidine; Diazoxide; Insulin secretion (Tsoli, E. (284) 199)

Electrical field stimulation

Asthma; TNF- α (tumor necrosis factor- α); Cytokine; Bronchial hyperresponsiveness; Airway, human (Anticevich, S.Z. (284) 221)

Electrical response

Detrusor smooth muscle; Excitatory junctional potential; (Contraction) (Hashitani, H. (284) 177)

Endocrine pancreas

Islets of Langerhans; Imidazoline receptor; Imidazoline I₁ site; Moxonidine; Efaroxan; Cimetidine; Diazoxide; Insulin secretion (Tsoli, E. (284) 199)

 β -Endorphin-(10-16)

Prolyl-leucyl-glycinamide; TRH (thyrotropin-releasing hormone); Melatonin; Nucleus accumbens; Antidepressant (Hatta, K. (284) 327)

Endothelin

BQ-123; Nitric oxide (NO); Cerebral vasospasm; Subarachnoid hemorrhage (Hirose, H. (284) 335)

Endothelium

Nitric oxide (NO); Microvasculature; Neurogenic inflammation; Substance P; 5-HT (5-hydroxytryptamine, serotonin); ATP (Ralevic, V. (284) 231)

Endotoxin

Vascular permeability; Kininogen-deficient rat; Bradykinin; PAF (platelet-activating factor); PAF receptor antagonist (Ueno, A. (284) 211)

Estrogen

Monoamine oxidase A; Estrogen receptor; Neural cell; Catecholamine (Ma, Z.-Q. (284) 171)

Estrogen receptor

Monoamine oxidase A; Neural cell; Catecholamine; Estrogen (Ma, Z.-Q. (284) 171)

Excitatory junctional potential

Detrusor smooth muscle; Electrical response; (Contraction) (Hashitani, H. (284) 177)

Excitotoxicity

NMDA receptor; NMDA (*N*-methyl-D-aspartate); Benzomorphan (Sawyer, D.C. (284) 309)

Fentanyl

Flesinoxan; Drug discrimination; 5-HT_{1A} receptor; (*S*)-UH301, enantiomer; WAY-100635 (Gommans, J. (284) 135)

Flesinoxan

Drug discrimination; 5-HT_{1A} receptor; (*S*)-UH301, enantiomer; WAY-100635; Fentanyl (Gommans, J. (284) 135)

F344 rat

Yawning; Sprague-Dawley rat; Dopamine (Tang, A.H. (284) 13)

GABA-ergic drug

Dopamine; Striatum; Kainic acid (Smolders, I. (284) 83)

GABA release

Acetylcholine release; Noradrenaline release; Galantide (Akehira, K. (284) 149)

Galantide

Acetylcholine release; Noradrenaline release; GABA release (Akehira, K. (284) 149)

GAMS (γ -D-glutamylaminomethylsulfonic acid)

AMPA/kainate receptor; Desensitizing current, fast; 6-Cyano-7-nitroquinoxaline-2,3-dione; Hippocampal neuron, rat (Wilsch, V.W. (284) 141)

Gastrointestinal system, rat

8-OH-DPAT (($\pm$)-8-hydroxy-2-(*n*-dipropylamino)tetralin); Adrenal gland; 5-HT_{1A} receptor; Acid (Gidener, S. (284) 19)

Glibenclamide (Glyburide)

Binding site; Hypoglycemic agent; Liver; Sulfonylurea compound (Inoue, Y. (284) 77)

Glutamate

Presynaptic action; Grease-gap; Hippocampus; Autoreceptor; (D.C. potential) (Shew, T.R. (284) 93)

MK-801; CNQX (6-cyano-7-nitroquinoxaline-2,3-dione); Inflammation; Pain; Analgesia (Jackson, D.L. (284) 321)

Glutamatergic synaptic transmission

β -Amyloid-(1–40); Long-term potentiation (Wu, J. (284) R1)

Glycine receptor, strychnine-insensitive

Anticonvulsant; Anxiolytic; Separation-induced vocalization; Audiogenic seizure; NMDA receptor; (DBA/2J mouse); (Rat pup) (Kehne, J.H. (284) 109)

cGMP

Proximal duodenum, rat; Nitric oxide (NO); NANC (non-adrenergic, non-cholinergic) nerve; Smooth muscle relaxation; Apamin; K⁺ channel (Martins, S.L.R. (284) 265)

cGMP-specific phosphodiesterase (phosphodiesterase V)

Phosphodiesterase; E4021; Vasorelaxant; Aorta, human (Miyahara, M. (284) 25)

Grease-gap

Presynaptic action; Glutamate; Hippocampus; Autoreceptor; (D.C. potential) (Shew, T.R. (284) 93)

Growth

Opioid; Development; Brain; Liver; (Intracerebroventricular) (Bartolome, J.V. (284) 43)

Growth hormone

Morphine; Antisense oligodeoxynucleotide; μ -Opioid receptor; δ -Opioid receptor; Prolactin (Idänpään-Heikkilä, J.J. (284) 227)

H-7

Opioid; Physical dependence; Protein kinase; Morphine; Butorphanol; H-8 (Tokuyama, S. (284) 101)

H-8

Opioid; Physical dependence; Protein kinase; Morphine; Butorphanol; H-7 (Tokuyama, S. (284) 101)

Heart

Arteriovenous anastomose; α -CGRP (calcitonin gene-related peptide); Dihydroergotamine; Migraine, pig; Sumatriptan (Van Gelderen, E.M. (284) 51)

Heart muscle, contractility

SPM3672; Nitric oxide (NO) donor; Nitric oxide (NO); Cardiomyocyte (Kojda, G. (284) 315)

Heart rate

UP 269-6; Losartan; Angiotensin II; Angiotensin II receptor antagonist; Blood pressure (Cazes, M. (284) 157)

1-Heptyl-3-(1-naphthoyl)indole

Cannabinoid; Cannabinoid receptor antagonist; SR141716A; Vas deferens, mouse; 1-Pentyl-2-methyl-3-(1-naphthoyl)indole; 1-Pentyl-3-(1-naphthoyl)pyrrole (Pertwee, R.G. (284) 241)

HHSiD (*p*-fluorohexahydro-siladifenidol hydrochloride)

Acetylcholine; Atrium AF-DX 116, human; McN-A-343; Muscarinic receptor; Myocardial contractility; Pirenzepine; Ventricle (Du, X.Y. (284) 119)

Hippocampal neuron, rat

AMPA/kainate receptor; Desensitizing current, fast; GAMS (γ -D-glutamylaminomethylsulfonic acid); 6-Cyano-7-nitroquinoxaline-2,3-dione (Wilsch, V.W. (284) 141)

Hippocampus

Presynaptic action; Glutamate; Grease-gap; Autoreceptor; (D.C. potential) (Shew, T.R. (284) 93)

Histamine

Nitric oxide (NO); Allergic conjunctivitis; Vascular permeability; *N*^G-Nitro-L-arginine methyl ester; Aminoguanidine; PAF (platelet-activating factor) (Meijer, F. (284) 61)

Histamine H₃ receptor agonist

Neurogenic inflammation; Trigeminal ganglion; Sensory nerve; μ -Opioid receptor agonist; 5-HT_{1D} receptor agonist (Escott, K.J. (284) 69)

5-HT (5-hydroxytryptamine, serotonin)

Nitric oxide (NO); Endothelium; Microvasculature; Neurogenic inflammation; Substance P; ATP (Ralevic, V. (284) 231)

5-HT_{1A} receptor

8-OH-DPAT ((±)-8-hydroxy-2-(*n*-dipropylamino)tetralin); Adrenal gland; Gastrointestinal system, rat; Acid (Gidener, S. (284) 19)

Flesinoxan; Drug discrimination; (*S*)-UH301, enantiomer; WAY-100635; Fentanyl (Gommans, J. (284) 135)

Ipsapirone; (*S*)-WAY 100135; Punishment; Conflict; Anxiolytic activity (Cervo, L. (284) 249)

5-HT_{1D} receptor agonist

Neurogenic inflammation; Trigeminal ganglion; Sensory nerve; μ -Opioid receptor agonist; Histamine H₃ receptor agonist (Escott, K.J. (284) 69)

Hypoglycemic agent

Binding site; Glibenclamide (Glyburide); Liver; Sulfonylurea compound (Inoue, Y. (284) 77)

Imidazoline I₁ site

Islets of Langerhans; Endocrine pancreas; Imidazoline receptor; Moxonidine; Efaroxan; Cimetidine; Diazoxide; Insulin secretion (Tsoli, E. (284) 199)

Imidazoline receptor

Islets of Langerhans; Endocrine pancreas; Imidazoline I₁ site; Moxonidine; Efaroxan; Cimetidine; Diazoxide; Insulin secretion (Tsoli, E. (284) 199)

Inflammation

Glutamate; MK-801; CNQX (6-cyano-7-nitroquinoxaline-2,3-dione); Pain; Analgesia (Jackson, D.L. (284) 321)

Insulin secretion

Islets of Langerhans; Endocrine pancreas; Imidazoline receptor; Imidazoline I₁ site; Moxonidine; Efaroxan; Cimetidine; Diazoxide (Tsoli, E. (284) 199)

Ipsapirone

5-HT_{1A} receptor; (*S*)-WAY 100135; Punishment; Conflict; Anxiolytic activity (Cervo, L. (284) 249)

Islets of Langerhans

Endocrine pancreas; Imidazoline receptor; Imidazoline I₁ site; Moxonidine; Efaroxan; Cimetidine; Diazoxide; Insulin secretion (Tsoli, E. (284) 199)

Kainic acid

Dopamine; Striatum; GABA-ergic drug (Smolders, I. (284) 83)

K_{ATP} channel

Patch clamp; Antiarrhythmic, class Ia; Disopyramide; Skeletal muscle; Channel inhibition, pH dependent (Moser, C. (284) 35)

K⁺ channel

Proximal duodenum, rat; Nitric oxide (NO); NANC (non-adrenergic, non-cholinergic) nerve; Smooth muscle relaxation; Apamin; cGMP (Martins, S.L.R. (284) 265)

Kininogen-deficient rat

Ebelactone B; Carboxypeptidase Y, urinary; Deoxycorticosterone acetate-salt hypertension; Na⁺ excretion (Majima, M. (284) 1)

Endotoxin; Vascular permeability; Bradykinin; PAF (platelet-activating factor); PAF receptor antagonist (Ueno, A. (284) 211)

Lamotrigine

Parkinson's disease; Animal model (Löschmann, P.-A. (284) 129)

Liver

Opioid; Growth; Development; Brain; (Intracerebroventricular) (Bartolome, J.V. (284) 43)

Binding site; Glibenclamide (Glyburide); Hypoglycemic agent; Sulfonylurea compound (Inoue, Y. (284) 77)

Long-term potentiation

β -Amyloid-(1–40); Glutamatergic synaptic transmission (Wu, J. (284) R1)

Losartan

UP 269-6; Angiotensin II; Angiotensin II receptor antagonist; Blood pressure; Heart rate (Cazes, M. (284) 157)

Des-Asp-angiotensin I; PD123319; Pulmonary artery, rabbit; Transmural stimulation; (Superfusion) (Sim, M.K. (284) 215)

Macrophage inflammatory protein 2

Allergic inflammation; Dexamethasone; Chemotactic factor (Tanabe, J.-i. (284) 257)

McN-A-343

Acetylcholine; Atrium AF-DX 116, human; HHSiD (*p*-fluorohexahydro-siladifenidol hydrochloride); Muscarinic receptor; Myocardial contractility; Pirenzepine; Ventricle (Du, X.Y. (284) 119)

Melatonin

β -Endorphin-(10–16); Prolyl-leucyl-glycinamide; TRH (thyrotropin-releasing hormone); Nucleus accumbens; Antidepressant (Hatta, K. (284) 327)

Microvasculature

Nitric oxide (NO); Endothelium; Neurogenic inflammation; Substance P; 5-HT (5-hydroxytryptamine, serotonin); ATP (Ralevic, V. (284) 231)

Migraine, pig

Arteriovenous anastomose; α -CGRP (calcitonin gene-related peptide); Dihydroergotamine; Heart; Sumatriptan (Van Gelderen, E.M. (284) 51)

MK-801

Glutamate; CNQX (6-cyano-7-nitroquinoxaline-2,3-dione); Inflammation; Pain; Analgesia (Jackson, D.L. (284) 321)

[³H]MK912

α_2 -Adrenoceptor subtype; [³H]RX821002; (Pig) (Wikberg-Matsson, A. (284) 271)

Monoamine oxidase A

Estrogen receptor; Neural cell; Catecholamine; Estrogen (Ma, Z.-Q. (284) 171)

Morphine

Opioid; Physical dependence; Protein kinase; Butorphanol; H-7; H-8 (Tokuyama, S. (284) 101)

β -Carotene; Analgesia (Penn, N.W. (284) 191)

Drug discrimination; μ_1 -Opioid receptor (Suzuki, T. (284) 195)

Antisense oligodeoxynucleotide; μ -Opioid receptor; δ -Opioid receptor; Growth hormone; Prolactin (Idänpään-Heikkilä, J.J. (284) 227)

Moxonidine

Islets of Langerhans; Endocrine pancreas; Imidazoline receptor; Imidazoline I₁ site; Efaroxan; Cimetidine; Diazoxide; Insulin secretion (Tsoli, E. (284) 199)

MPTP (1-methyl-4-phenyl-1,2,3,6-tetrahydropyridine)

Riluzole; Neuroprotection; Bradykinesia; Rigidity; Dopamine release; Parkinson's disease; (Rhesus monkey) (Benazzouz, A. (284) 299)

Muscarinic receptor

Acetylcholine; Atrium AF-DX 116, human; HHSiD (*p*-fluorohexahydro-siladifenidol hydrochloride); McN-A-343; Myocardial contractility; Pirenzepine; Ventricle (Du, X.Y. (284) 119)

Myocardial contractility

Acetylcholine; Atrium AF-DX 116, human; HHSiD (*p*-fluorohexahydro-siladifenidol hydrochloride); McN-A-343; Muscarinic receptor; Pirenzepine; Ventricle (Du, X.Y. (284) 119)

Na⁺ excretion

Ebelactone B; Carboxypeptidase Y, urinary; Kininogen-deficient rat; Deoxycorticosterone acetate-salt hypertension (Majima, M. (284) 1)

NANC (non-adrenergic, non-cholinergic) nerve

Proximal duodenum, rat; Nitric oxide (NO); Smooth muscle relaxation; Apamin; K⁺ channel; cGMP (Martins, S.L.R. (284) 265)

Na⁺-pump

Dopamine receptor; Phosphoinositide hydrolysis; Pertussis toxin; Vascular tone (Rashed, S.M.K. (284) 289)

Neural cell

Monoamine oxidase A; Estrogen receptor; Catecholamine; Estrogen (Ma, Z.-Q. (284) 171)

Neurogenic inflammation

Trigeminal ganglion; Sensory nerve; μ -Opioid receptor agonist; 5-HT_{1D} receptor agonist; Histamine H₃ receptor agonist (Escott, K.J. (284) 69)

Nitric oxide (NO); Endothelium; Microvasculature; Substance P; 5-HT (5-hydroxytryptamine, serotonin); ATP (Ralevic, V. (284) 231)

Neuroprotection

Riluzole; MPTP (1-methyl-4-phenyl-1,2,3,6-tetrahydropyridine); Bradykinesia; Rigidity; Dopamine release; Parkinson's disease; (Rhesus monkey) (Benazzouz, A. (284) 299)

Nitric oxide (NO)

Allergic conjunctivitis; Vascular permeability; N^G-Nitro-L-arginine methyl ester; Aminoguanidine; Histamine; PAF (platelet-activating factor) (Meijer, F. (284) 61)

Endothelium; Microvasculature; Neurogenic inflammation; Substance P; 5-HT (5-hydroxytryptamine, serotonin); ATP (Ralevic, V. (284) 231)

Proximal duodenum, rat; NANC (non-adrenergic, non-cholinergic) nerve; Smooth muscle relaxation; Apamin; K⁺ channel; cGMP (Martins, S.L.R. (284) 265)

SPM3672; Nitric oxide (NO) donor; Cardiomyocyte; Heart muscle, contractility (Kojda, G. (284) 315)

BQ-123; Endothelin; Cerebral vasospasm; Subarachnoid hemorrhage (Hirose, H. (284) 335)

Nitric oxide (NO) donor

SPM3672; Nitric oxide (NO); Cardiomyocyte; Heart muscle, contractility (Kojda, G. (284) 315)

N^G-Nitro-L-arginine methyl ester

Nitric oxide (NO); Allergic conjunctivitis; Vascular permeability; Aminoguanidine; Histamine; PAF (platelet-activating factor) (Meijer, F. (284) 61)

NMDA (*N*-methyl-D-aspartate)

NMDA receptor; Benzomorphan; Excitotoxicity (Sawyer, D.C. (284) 309)

NMDA receptor

Anticonvulsant; Anxiolytic; Separation-induced vocalization; Audiogenic seizure; Glycine receptor, strychnine-insensitive; (DBA/2J mouse); (Rat pup) (Kehne, J.H. (284) 109)

NMDA (*N*-methyl-D-aspartate); Benzomorphan; Excitotoxicity (Sawyer, D.C. (284) 309)

Noradrenaline release

Acetylcholine release; GABA release; Galantide (Akehira, K. (284) 149)

Nucleus accumbens

Cocaine; Apomorphine; Deoxyglucose; Brain metabolism (Pontieri, F.E. (284) 205)

β -Endorphin-(10–16); Prolyl-leucyl-glycinamide; TRH (thyrotropin-releasing hormone); Melatonin; Antidepressant (Hatta, K. (284) 327)

8-OH-DPAT (($\pm$))-8-hydroxy-2-(*n*-dipropylamino)tetralin)

Adrenal gland; Gastrointestinal system, rat; 5-HT_{1A} receptor; Acid (Gidener, S. (284) 19)

Opioid

Growth; Development; Brain; Liver; (Intracerebroventricular) (Bartolome, J.V. (284) 43)

Physical dependence; Protein kinase; Morphine; Butorphanol; H-7; H-8 (Tokuyama, S. (284) 101)

 δ -Opioid receptor

Antisense oligodeoxynucleotide; Desensitization; Antinociception (Narita, M. (284) 185)

Morphine; Antisense oligodeoxynucleotide; μ -Opioid receptor; Growth hormone; Prolactin (Idänpään-Heikkilä, J.J. (284) 227)

 μ -Opioid receptor

Morphine; Antisense oligodeoxynucleotide; δ -Opioid receptor; Growth hormone; Prolactin (Idänpään-Heikkilä, J.J. (284) 227)

 μ_1 -Opioid receptor

Morphine; Drug discrimination (Suzuki, T. (284) 195)

 μ -Opioid receptor agonist

Neurogenic inflammation; Trigeminal ganglion; Sensory nerve; 5-HT_{1D} receptor agonist; Histamine H₃ receptor agonist (Escott, K.J. (284) 69)

PAF (platelet-activating factor)

Nitric oxide (NO); Allergic conjunctivitis; Vascular permeability; N^G-Nitro-L-arginine methyl ester; Aminoguanidine; Histamine (Meijer, F. (284) 61)

Endotoxin; Vascular permeability; Kininogen-deficient rat; Bradykinin; PAF receptor antagonist (Ueno, A. (284) 211)

PAF receptor antagonist

Endotoxin; Vascular permeability; Kininogen-deficient rat; Bradykinin; PAF (platelet-activating factor) (Ueno, A. (284) 211)

Pain

Glutamate; MK-801; CNQX (6-cyano-7-nitroquinoxaline-2,3-dione); Inflammation; Analgesia (Jackson, D.L. (284) 321)

Parkinson's disease

Animal model; Lamotrigine (Löschnann, P.-A. (284) 129)

Riluzole; Neuroprotection; MPTP (1-methyl-4-phenyl-1,2,3,6-tetrahydropyridine); Bradykinesia; Rigidity; Dopamine release; (Rhesus monkey) (Benazzouz, A. (284) 299)

Patch clamp

Antiarrhythmic, class Ia; Disopyramide; Skeletal muscle; K_{ATP} channel; Channel inhibition, pH dependent (Moser, C. (284) 35)

PD123319

Des-Asp-angiotensin I; Losartan; Pulmonary artery, rabbit; Transmural stimulation; (Superfusion) (Sim, M.K. (284) 215)

1-Pentyl-2-methyl-3-(1-naphthoyl)indole

Cannabinoid; Cannabinoid receptor antagonist; SR141716A; Vas deferens, mouse; 1-Pentyl-3-(1-naphthoyl)pyrrole; 1-Heptyl-3-(1-naphthoyl)indole (Pertwee, R.G. (284) 241)

1-Pentyl-3-(1-naphthoyl)pyrrole

Cannabinoid; Cannabinoid receptor antagonist; SR141716A; Vas deferens, mouse; 1-Pentyl-2-methyl-3-(1-naphthoyl)indole; 1-Heptyl-3-(1-naphthoyl)indole (Pertwee, R.G. (284) 241)

Pertussis toxin

Na^+ -pump; Dopamine receptor; Phosphoinositide hydrolysis; Vascular tone (Rashed, S.M.K. (284) 289)

Phosphodiesterase

cGMP-specific phosphodiesterase (phosphodiesterase V); E4021; Vasorelaxant; Aorta, human (Miyahara, M. (284) 25)

Phosphoinositide hydrolysis

Na^+ -pump; Dopamine receptor; Pertussis toxin; Vascular tone (Rashed, S.M.K. (284) 289)

Physical dependence

Opioid; Protein kinase; Morphine; Butorphanol; H-7; H-8 (Tokuyama, S. (284) 101)

Pirenzepine

Acetylcholine; Atrium AF-DX 116, human; HHSiD (*p*-fluorohexahydro-siladifenidol hydrochloride); McN-A-343; Muscarinic receptor; Myocardial contractility; Ventricle (Du, X.Y. (284) 119)

Prazosin

Renal blood flow; Catecholamine release; Angiotensin II; Renal nerve; α -Adrenoceptor (Chen, K. (284) 281)

Presynaptic action

Glutamate; Grease-gap; Hippocampus; Autoreceptor; (D.C. potential) (Shew, T.R. (284) 93)

Prolactin

Morphine; Antisense oligodeoxynucleotide; μ -Opioid receptor; δ -Opioid receptor; Growth hormone (Idänpää-Heikkilä, J.J. (284) 227)

Prolyl-leucyl-glycinamide

β -Endorphin-(10–16); TRH (thyrotropin-releasing hormone); Melatonin; Nucleus accumbens; Antidepressant (Hatta, K. (284) 327)

Protein kinase

Opioid; Physical dependence; Morphine; Butorphanol; H-7; H-8 (Tokuyama, S. (284) 101)

Proximal duodenum, rat

Nitric oxide (NO); NANC (non-adrenergic, non-cholinergic) nerve; Smooth muscle relaxation; Apamin; K^+ channel; cGMP (Martins, S.L.R. (284) 265)

Pulmonary artery, rabbit

Des-Asp-angiotensin I; Losartan; PD123319; Transmural stimulation; (Superfusion) (Sim, M.K. (284) 215)

Punishment

5-HT_{1A} receptor; Ipsapirone; (S)-WAY 100135; Conflict; Anxiolytic activity (Cervo, L. (284) 249)

Renal blood flow

Catecholamine release; Angiotensin II; Renal nerve; Prazosin; α -Adrenoceptor (Chen, K. (284) 281)

Renal nerve

Renal blood flow; Catecholamine release; Angiotensin II; Prazosin; α -Adrenoceptor (Chen, K. (284) 281)

Rigidity

Riluzole; Neuroprotection; MPTP (1-methyl-4-phenyl-1,2,3,6-tetrahydropyridine); Bradykinesia; Dopamine release; Parkinson's disease; (Rhesus monkey) (Benazzouz, A. (284) 299)

Riluzole

Neuroprotection; MPTP (1-methyl-4-phenyl-1,2,3,6-tetrahydropyridine); Bradykinesia; Rigidity; Dopamine release; Parkinson's disease; (Rhesus monkey) (Benazzouz, A. (284) 299)

[³H]RX821002

α_2 -Adrenoceptor subtype; [³H]MK912; (Pig) (Wikberg-Matsson, A. (284) 271)

Sensory nerve

Neurogenic inflammation; Trigeminal ganglion; μ -Opioid receptor agonist; 5-HT_{1D} receptor agonist; Histamine H₃ receptor agonist (Escott, K.J. (284) 69)

Separation-induced vocalization

Anticonvulsant; Anxiolytic; Audiogenic seizure; Glycine receptor, strychnine-insensitive; NMDA receptor; (DBA/2J mouse); (Rat pup) (Kehne, J.H. (284) 109)

Skeletal muscle

Patch clamp; Antiarrhythmic, class Ia; Disopyramide; K_{ATP} channel; Channel inhibition, pH dependent (Moser, C. (284) 35)

Smooth muscle relaxation

Proximal duodenum, rat; Nitric oxide (NO); NANC (non-adrenergic, non-cholinergic) nerve; Apamin; K^+ channel; cGMP (Martins, S.L.R. (284) 265)

SPM3672

Nitric oxide (NO) donor; Nitric oxide (NO); Cardiomyocyte; Heart muscle, contractility (Kojda, G. (284) 315)

Sprague-Dawley rat

Yawning; F344 rat; Dopamine (Tang, A.H. (284) 13)

SR141716A

Cannabinoid; Cannabinoid receptor antagonist; Vas deferens, mouse; 1-Pentyl-2-methyl-3-(1-naphthoyl)indole; 1-Pentyl-3-(1-naphthoyl)pyrrole; 1-Heptyl-3-(1-naphthoyl)indole (Pertwee, R.G. (284) 241)

Striatum

Dopamine; GABA-ergic drug; Kainic acid (Smolders, I. (284) 83)

Subarachnoid hemorrhage

BQ-123; Endothelin; Nitric oxide (NO); Cerebral vasospasm (Hirose, H. (284) 335)

Substance P

Nitric oxide (NO); Endothelium; Microvasculature; Neurogenic inflammation; 5-HT (5-hydroxytryptamine, serotonin); ATP (Ralevic, V. (284) 231)

Sulfonylurea compound

Binding site; Glibenclamide (Glyburide); Hypoglycemic agent; Liver (Inoue, Y. (284) 77)

Sumatriptan

Arteriovenous anastomose; α -CGRP (calcitonin gene-related peptide); Dihydroergotamine; Heart; Migraine, pig (Van Gelderen, E.M. (284) 51)

TNF- α (tumor necrosis factor- α)

Asthma; Cytokine; Bronchial hyperresponsiveness; Electrical field stimulation; Airway, human (Anticevich, S.Z. (284) 221)

Transmural stimulation

Des-Asp-angiotensin I; Losartan; PD123319; Pulmonary artery, rabbit; (Superfusion) (Sim, M.K. (284) 215)

TRH (thyrotropin-releasing hormone)

β -Endorphin-(10–16); Prolyl-leucyl-glycinamide; Melatonin; Nucleus accumbens; Antidepressant (Hatta, K. (284) 327)

Trigeminal ganglion

Neurogenic inflammation; Sensory nerve; μ -Opioid receptor agonist; 5-HT_{1D} receptor agonist; Histamine H₃ receptor agonist (Escott, K.J. (284) 69)

(S)-UH301, enantiomer

Flesinoxan; Drug discrimination; 5-HT_{1A} receptor; WAY-100635; Fentanyl (Gommans, J. (284) 135)

UP 269-6

Losartan; Angiotensin II; Angiotensin II receptor antagonist; Blood pressure; Heart rate (Cazes, M. (284) 157)

Vascular permeability

Nitric oxide (NO); Allergic conjunctivitis; *N*^G-Nitro-L-arginine methyl ester; Aminoguanidine; Histamine; PAF (platelet-activating factor) (Meijer, F. (284) 61)

Endotoxin; Kininogen-deficient rat; Bradykinin; PAF (platelet-activating factor); PAF receptor antagonist (Ueno, A. (284) 211)

Vascular tone

Na⁺-pump; Dopamine receptor; Phosphoinositide hydrolysis; Pertussis toxin (Rashed, S.M.K. (284) 289)

Vas deferens, mouse

Cannabinoid; Cannabinoid receptor antagonist; SR141716A; 1-Pentyl-2-methyl-3-(1-naphthoyl)indole; 1-Pentyl-3-(1-naphthoyl)pyrrole; 1-Heptyl-3-(1-naphthoyl)indole (Pertwee, R.G. (284) 241)

Vasorelaxant

Phosphodiesterase; cGMP-specific phosphodiesterase (phosphodiesterase V); E4021; Aorta, human (Miyahara, M. (284) 25)

Ventricle

Acetylcholine; Atrium AF-DX 116, human; HHSiD (*p*-fluorohexahydro-siladifenidol hydrochloride); McN-A-343; Muscarinic receptor; Myocardial contractility; Pirenzepine (Du, X.Y. (284) 119)

WAY-100635

Flesinoxan; Drug discrimination; 5-HT_{1A} receptor; (S)-UH301, enantiomer; Fentanyl (Gommans, J. (284) 135)

(S)-WAY 100135

5-HT_{1A} receptor; Ipsapirone; Punishment; Conflict; Anxiolytic activity (Cervo, L. (284) 249)

Yawning

Sprague-Dawley rat; F344 rat; Dopamine (Tang, A.H. (284) 13)