

## Keyword index

### ***t*-ACPD (*trans*-(±)-1-amino-1,3-cyclopentanedicarboxylic acid)**

NMDA receptor; mGlu receptor; NMDA (*N*-methyl-D-aspartate); L-AP-3 (L-2-amino-3-phosphono-propionate); Periaqueductal gray matter (Leyva, J. (285) 123)

### **ACTH (adrenocorticotrophic hormone)**

Cocaine; Corticosterone; Hypothalamus-pituitary-adrenal axis (Schmidt, E.D. (285) 317)

### **Acute inflammation**

Iloprost; Nitric oxide (NO); Captopril; Hypertension; (2K-1C rat) (Medeiros, M.V. (285) 109)

### **Adenylate cyclase**

Psycholeine; Quadrigemine C; Somatostatin; Growth hormone (Rasoljanahary, R. (285) 19)

### **$\alpha_{2A}$ -Adrenoceptor**

Dexmedetomidine; Locus ceruleus; Brain slice; Intracellular recording (Chiu, T.-H. (285) 261)

### **$\alpha_1$ -Adrenoceptor agonist**

5-HT<sub>1D</sub> receptor agonist; Hypothermia (Kalkman, H.O. (285) 313)

### **$\beta$ -Adrenoceptor agonist**

Endothelin-1; Cardiac myocyte; L-type Ca<sup>2+</sup> current; (Guinea-pig) (Delpech, N. (285) 217)

### **$\alpha_2$ -Adrenoceptor antagonist**

Histamine; Noradrenaline; Atipamezole; Microdialysis, in vivo; Hypothalamus (Laitinen, K.S.M. (285) 255)

### **Alcoholism**

GBH ( $\gamma$ -hydroxybutyric acid); Voluntary  $\gamma$ -hydroxybutyric acid intake; (Rat) (Colombo, G. (285) 103)

### **Aldose reductase**

Diabetes; Formalin test; Polyol pathway; Pain; Diabetic neuropathy (Calcutt, N.A. (285) 189)

### **Amantadine**

*c-fos*; Dopamine; NMDA (*N*-methyl-D-aspartate); Striatum (Tomitaka, S.-i. (285) 207)

### **AMPA ((*RS*)-2-amino-3-(3-hydroxy-5-methylisoxazol-4-yl)propionic acid)**

NMDA (*N*-methyl-D-aspartate); ATPA ((*RS*)-2-amino-3-(3-hydroxy-5-*tert*-butylisoxazol-4-yl)propionic acid); Cue; Convulsion; Glutamate receptor; (Rat); (Mouse) (Arnt, J. (285) 289)

### **Anesthesia**

Mediodorsal thalamic nucleus; Prefrontal cortex; Excitatory amino acid (Pirot, S. (285) 45)

### **Angiotensin AT<sub>1</sub> receptor, selective**

Angiotensin II; CS-866; Nonpeptide; Angiotensin receptor antagonist (Mizuno, M. (285) 181)

### **Angiotensin II**

CS-866; Nonpeptide; Angiotensin receptor antagonist; Angiotensin AT<sub>1</sub> receptor, selective (Mizuno, M. (285) 181)

### **Angiotensin receptor antagonist**

Angiotensin II; CS-866; Nonpeptide; Angiotensin AT<sub>1</sub> receptor, selective (Mizuno, M. (285) 181)

### **Antiarrhythmic, class I**

Ischemic arrhythmia; ECG (electrocardiogram); (Selectivity) (Barrett, T.D. (285) 229)

### **Antiarrhythmic drug**

Cardiac electropharmacology; Mechanism of arrhythmia (Lee, J.H. (285) 25)

### **Anti-inflammatory drug**

2-Polyprenyl-1,4-hydroquinone; Marine product; Phospholipase A<sub>2</sub>; Neutrophil, human (Gil, B. (285) 281)

### **L-AP-3 (L-2-amino-3-phosphono-propionate)**

NMDA receptor; mGlu receptor; NMDA (*N*-methyl-D-aspartate); *t*-ACPD (*trans*-(±)-1-amino-1,3-cyclopentanedicarboxylic acid); Periaqueductal gray matter (Leyva, J. (285) 123)

### **Aspartate**

Atipamezole; Dexmedetomidine; Glutamate; GABA ( $\gamma$ -aminobutyric acid); Microdialysis; Hippocampus (Valtonen, P. (285) 239)

### **Atipamezole**

Aspartate; Dexmedetomidine; Glutamate; GABA ( $\gamma$ -aminobutyric acid); Microdialysis; Hippocampus (Valtonen, P. (285) 239)

Histamine; Noradrenaline;  $\alpha_2$ -Adrenoceptor antagonist; Microdialysis, in vivo; Hypothalamus (Laitinen, K.S.M. (285) 255)

### **ATPA ((*RS*)-2-amino-3-(3-hydroxy-5-*tert*-butylisoxazol-4-yl)propionic acid)**

AMPA ((*RS*)-2-amino-3-(3-hydroxy-5-methylisoxazol-4-yl)propionic acid); NMDA (*N*-methyl-D-aspartate); Cue; Convulsion; Glutamate receptor; (Rat); (Mouse) (Arnt, J. (285) 289)

### **Ba<sup>2+</sup>**

Ca<sup>2+</sup>; Sr<sup>2+</sup>; Nitric oxide (NO); Coronary artery, porcine; Diltiazem (Ohashi, K. (285) 165)

### **$\sigma$ Binding site, heterogeneity**

Radioreceptor assay; DTG (1,3-di(2-tolyl)guanidine); (+)-Pentazocine; Brain; Spinal cord; (Mouse) (Kovács, K.J. (285) 127)

**BQ-123**

Endothelin receptor; Cotransmission; Vas deferens; Endothelin-3; Sarafotoxin S6c; (Guinea-pig) (Mutafova-Yambolieva, V.N. (285) 213)

Endothelin; IRL1620; Endothelin receptor subtype; PD145065; Tachyphylaxis (Miasiro, N. (285) 247)

**Brain**

Morphine; Nitric oxide (NO); Nitric oxide (NO) synthase (Leza, J.-C. (285) 95)

$\sigma$  Binding site, heterogeneity; Radioreceptor assay; DTG (1,3-di(2-tolyl)guanidine); (+)-Pentazocine; Spinal cord; (Mouse) (Kovács, K.J. (285) 127)

**Brain slice**

Dexmedetomidine; Locus ceruleus; Intracellular recording;  $\alpha_{2A}$ -Adrenoceptor (Chiu, T.-H. (285) 261)

**Ca<sup>2+</sup>**

Ba<sup>2+</sup>; Sr<sup>2+</sup>; Nitric oxide (NO); Coronary artery, porcine; Diltiazem (Ohashi, K. (285) 165)

**Ca<sup>2+</sup> channel**

Cryptolepine (5-methylquinoline); Vasodilation; Kidney, rat; G-protein; K<sup>+</sup> channel; Pertussis toxin (Oyekan, A.O. (285) 1)

**Ca<sup>2+</sup> channel antagonist**

Elgodipine; Conductance vessel; Resistance vessel; (Rabbit); (Sheep) (Chulia, T. (285) 115)

**L-type Ca<sup>2+</sup> current**

Endothelin-1; Cardiac myocyte;  $\beta$ -Adrenoceptor agonist; (Guinea-pig) (Delpech, N. (285) 217)

**Capillary permeability**

Diabetic vasculopathy; Neutral endopeptidase; Streptozotocin (Chakir, M. (285) 11)

**Captopril**

Iloprost; Nitric oxide (NO); Acute inflammation; Hypertension; (2K-1C rat) (Medeiros, M.V. (285) 109)

**Cardiac electropharmacology**

Mechanism of arrhythmia; Antiarrhythmic drug (Lee, J.H. (285) 25)

**Cardiac myocyte**

Endothelin-1; L-type Ca<sup>2+</sup> current;  $\beta$ -Adrenoceptor agonist; (Guinea-pig) (Delpech, N. (285) 217)

K<sub>ATP</sub> channel; Imidazoline; (Guinea-pig) (Lee, K. (285) 309)

**Catalepsy**

Cocaine; SCH23390; Haloperidol; Supersensitivity; Subsensitivity; (Mouse) (Ushijima, I. (285) 55)

**Cerebral artery, canine**

PACAP (pituitary adenylate cyclase activating polypeptide); Intracerebral arteriole, rat; Endothelium-derived contracting factor; Prostaglandin F<sub>2 $\alpha$</sub>  (Anzai, M. (285) 173)

**Cerebral ischemia**

Hippocampus; Lipid peroxidation; N<sup>G</sup>-Nitro-L-arginine methyl ester; (Gerbil) (Caldwell, M. (285) 203)

**c-fos**

Amantadine; Dopamine; NMDA (*N*-methyl-D-aspartate); Striatum (Tomitaka, S.-i. (285) 207)

**CGP 35348**

GABA<sub>B</sub> receptor antagonist; Pyramidal tract neuron; Transcallosal response, cat; Motor cortex (Chowdhury, S.A. (285) 99)

**Chorda tympani**

Neuroimmunomodulation; Cyclosporine; Stress; Sympathetic nervous system; Parasympathetic nervous system; Submaxillary lymph node; Superior cervical ganglion (Esquifino, A.I. (285) 143)

**Cilia**

Formoterol; Terbutaline; Trachea; Maxillary sinus; Mucociliary clearance (Lindberg, S. (285) 275)

**Cocaine**

SCH23390; Haloperidol; Catalepsy; Supersensitivity; Subsensitivity; (Mouse) (Ushijima, I. (285) 55)

ACTH (adrenocorticotrophic hormone); Corticosterone; Hypothalamus-pituitary-adrenal axis (Schmidt, E.D. (285) 317)

**Conductance vessel**

Elgodipine; Ca<sup>2+</sup> channel antagonist; Resistance vessel; (Rabbit); (Sheep) (Chulia, T. (285) 115)

**Contraction**

Isoprostane; Myometrium, human; Prostanoid TP receptor; U46619 (Crankshaw, D. (285) 151)

**Convulsion**

AMPA ((*RS*)-2-amino-3-(3-hydroxy-5-methylisoxazol-4-yl)propionic acid); NMDA (*N*-methyl-D-aspartate); ATPA ((*RS*)-2-amino-3-(3-hydroxy-5-*tert*-butylisoxazol-4-yl)propionic acid); Cue; Glutamate receptor; (Rat); (Mouse) (Arnt, J. (285) 289)

**Coronary artery, human**

[Arg<sup>8</sup>]Vasopressin; Vasopressin V<sub>1</sub> receptor; OPC-21268; OPC-31260; SR 49059; (Human) (Bax, W.A. (285) 199)

**Coronary artery, porcine**

Ca<sup>2+</sup>; Ba<sup>2+</sup>; Sr<sup>2+</sup>; Nitric oxide (NO); Diltiazem (Ohashi, K. (285) 165)

**Corticosterone**

ACTH (adrenocorticotrophic hormone); Cocaine; Hypothalamus-pituitary-adrenal axis (Schmidt, E.D. (285) 317)

**Cotransmission**

Endothelin receptor; Vas deferens; Endothelin-3; BQ-123; Sarafotoxin S6c; (Guinea-pig) (Mutafova-Yambolieva, V.N. (285) 213)

**Cryptolepine (5-methylquinoline)**

Vasodilation; Kidney, rat; G-protein; K<sup>+</sup> channel; Ca<sup>2+</sup> channel; Pertussis toxin (Oyekan, A.O. (285) 1)

**CS-866**

Angiotensin II; Nonpeptide; Angiotensin receptor antagonist; Angiotensin AT<sub>1</sub> receptor, selective (Mizuno, M. (285) 181)

**Cue**

AMPA ((*RS*)-2-amino-3-(3-hydroxy-5-methylisoxazol-4-yl)propionic acid); NMDA (*N*-methyl-D-aspartate); ATPA ((*RS*)-2-amino-3-(3-hydroxy-5-*tert*-butylisoxazol-4-yl)propionic acid); Convulsion; Glutamate receptor; (Rat); (Mouse) (Arnt, J. (285) 289)

**Cyclosporine**

Neuroimmunomodulation; Stress; Sympathetic nervous system; Parasympathetic nervous system; Submaxillary lymph node; Superior cervical ganglion; Chorda tympani (Esquifino, A.I. (285) 143)

**Dexfenfluramine**

Histamine; 5-HT (5-hydroxytryptamine, serotonin); Methysergide; Microdialysis; Hypothalamus (Laitinen, K.S.M. (285) 159)

**Dexmedetomidine**

Aspartate; Atipamezole; Glutamate; GABA ( $\gamma$ -aminobutyric acid); Microdialysis; Hippocampus (Valtonen, P. (285) 239)

Locus ceruleus; Brain slice; Intracellular recording;  $\alpha_{2A}$ -Adrenoceptor (Chiu, T.-H. (285) 261)

**Diabetes**

Formalin test; Aldose reductase; Polyol pathway; Pain; Diabetic neuropathy (Calcutt, N.A. (285) 189)

**Diabetic neuropathy**

Diabetes; Formalin test; Aldose reductase; Polyol pathway; Pain (Calcutt, N.A. (285) 189)

**Diabetic vasculopathy**

Capillary permeability; Neutral endopeptidase; Streptozotocin (Chakir, M. (285) 11)

**Diltiazem**

$Ca^{2+}$ ;  $Ba^{2+}$ ;  $Sr^{2+}$ ; Nitric oxide (NO); Coronary artery, porcine (Ohashi, K. (285) 165)

**Dopamine**

Substantia nigra; GABA ( $\gamma$ -aminobutyric acid); NMDA (*N*-methyl-D-aspartate); Pyrrolidinone (Shepard, P.D. (285) 79)

Amantadine; *c-fos*; NMDA (*N*-methyl-D-aspartate); Striatum (Tomitaka, S.-i. (285) 207)

**Dopamine D<sub>1</sub> receptor antagonist**

Phencyclidine; Dopamine D<sub>2</sub> receptor antagonist; Striatum, rat; Microdialysis (Yonezawa, Y. (285) 305)

**Dopamine D<sub>2</sub> receptor antagonist**

Phencyclidine; Dopamine D<sub>1</sub> receptor antagonist; Striatum, rat; Microdialysis (Yonezawa, Y. (285) 305)

**DTG (1,3-di(2-tolyl)guanidine)**

$\sigma$  Binding site, heterogeneity; Radioreceptor assay; (+)-Pentazocine; Brain; Spinal cord; (Mouse) (Kovács, K.J. (285) 127)

**ECG (electrocardiogram)**

Ischemic arrhythmia; Antiarrhythmic, class I; (Selectivity) (Barrett, T.D. (285) 229)

**Elgodipine**

$Ca^{2+}$  channel antagonist; Conductance vessel; Resistance vessel; (Rabbit); (Sheep) (Chulia, T. (285) 115)

**Emesis**

5-HT<sub>3</sub> receptor; GK-128; (*Suncus murinus*) (Ito, C. (285) 37)

**Endothelin**

Endothelin ET<sub>A</sub> receptor; Endothelin ET<sub>A</sub> receptor selective antagonist; Myometrium, human (Héluy, V. (285) 89)

IRL1620; Endothelin receptor subtype; PD145065; BQ-123; Tachyphylaxis (Miasiro, N. (285) 247)

**Endothelin-1**

Cardiac myocyte; L-type  $Ca^{2+}$  current;  $\beta$ -Adrenoceptor agonist; (Guinea-pig) (Delpech, N. (285) 217)

**Endothelin-3**

Endothelin receptor; Cotransmission; Vas deferens; BQ-123; Sarafotoxin S6c; (Guinea-pig) (Mutafova-Yambolieva, V.N. (285) 213)

**Endothelin receptor**

Cotransmission; Vas deferens; Endothelin-3; BQ-123; Sarafotoxin S6c; (Guinea-pig) (Mutafova-Yambolieva, V.N. (285) 213)

**Endothelin ET<sub>A</sub> receptor**

Endothelin; Endothelin ET<sub>A</sub> receptor selective antagonist; Myometrium, human (Héluy, V. (285) 89)

**Endothelin ET<sub>A</sub> receptor selective antagonist**

Endothelin; Endothelin ET<sub>A</sub> receptor; Myometrium, human (Héluy, V. (285) 89)

**Endothelin receptor subtype**

Endothelin; IRL1620; PD145065; BQ-123; Tachyphylaxis (Miasiro, N. (285) 247)

**Endothelium-derived contracting factor**

PACAP (pituitary adenylate cyclase activating polypeptide); Cerebral artery, canine; Intracerebral arteriole, rat; Prostaglandin F<sub>2 $\alpha$</sub>  (Anzai, M. (285) 173)

**Excitatory amino acid**

Mediodorsal thalamic nucleus; Prefrontal cortex; Anesthesia (Pirot, S. (285) 45)

**Feedback inhibition**

Nitroergic nerve; Nitric oxide (NO); NANC (non-adrenergic non-cholinergic); Gastric fundus; (Rat) (De Man, J.G. (285) 269)

**Formalin test**

Diabetes; Aldose reductase; Polyol pathway; Pain; Diabetic neuropathy (Calcutt, N.A. (285) 189)

**Formoterol**

Cilia; Terbutaline; Trachea; Maxillary sinus; Mucociliary clearance (Lindberg, S. (285) 275)

**GABA ( $\gamma$ -aminobutyric acid)**

Dopamine; Substantia nigra; NMDA (*N*-methyl-D-aspartate); Pyrrolidinone (Shepard, P.D. (285) 79)

Aspartate; Atipamezole; Dexmedetomidine; Glutamate; Microdialysis; Hippocampus (Valtonen, P. (285) 239)

**GABA<sub>B</sub> receptor antagonist**

CGP 35348; Pyramidal tract neuron; Transcallosal response, cat; Motor cortex (Chowdhury, S.A. (285) 99)

**Gastric fundus**

Feedback inhibition; Nitroergic nerve; Nitric oxide (NO); NANC (non-adrenergic non-cholinergic); (Rat) (De Man, J.G. (285) 269)

**GBH ( $\gamma$ -hydroxybutyric acid)**

Voluntary  $\gamma$ -hydroxybutyric acid intake; Alcoholism; (Rat) (Colombo, G. (285) 103)

**GK-128**

5-HT<sub>3</sub> receptor; Emesis; (*Suncus murinus*) (Ito, C. (285) 37)

**mGlu receptor**

NMDA receptor; NMDA (*N*-methyl-D-aspartate); *t*-ACPD (*trans*-( $\pm$ )-1-amino-1,3-cyclopentanedicarboxylic acid); L-AP-3 (L-2-amino-3-phosphono-propionate); Periaqueductal gray matter (Leyva, J. (285) 123)

**Glutamate**

Aspartate; Atipamezole; Dexmedetomidine; GABA ( $\gamma$ -aminobutyric acid); Microdialysis; Hippocampus (Valtonen, P. (285) 239)

**Glutamate receptor**

AMPA ((*RS*)-2-amino-3-(3-hydroxy-5-methylisoxazol-4-yl)propionic acid); NMDA (*N*-methyl-D-aspartate); ATPA ((*RS*)-2-amino-3-(3-hydroxy-5-*tert*-butylisoxazol-4-yl)propionic acid); Cue; Convulsion; (Rat); (Mouse) (Arnt, J. (285) 289)

**G-protein**

Cryptolepine (5-methylquindoline); Vasodilation; Kidney, rat; K<sup>+</sup> channel; Ca<sup>2+</sup> channel; Pertussis toxin (Oyekan, A.O. (285) 1)

**Growth hormone**

Psycholeine; Quadrigemine C; Somatostatin; Adenylate cyclase (Rasoljanahary, R. (285) 19)

Tolerance; Morphine; Thyrotropin; Prolactin; Locomotor activity; Rectal temperature (Rauhala, P. (285) 69)

**Haloperidol**

Cocaine; SCH23390; Catalepsy; Supersensitivity; Subsensitivity; (Mouse) (Ushijima, I. (285) 55)

**Hippocampus**

Cerebral ischemia; Lipid peroxidation; *N*<sup>G</sup>-Nitro-L-arginine methyl ester; (Gerbil) (Caldwell, M. (285) 203)

5-HT<sub>1A</sub> receptor; 5-HT<sub>1B</sub> receptor; Scopolamine; Spatial memory; (Microinjection) (Buhot, M.-C. (285) 221)

Aspartate; Atipamezole; Dexmedetomidine; Glutamate; GABA ( $\gamma$ -aminobutyric acid); Microdialysis (Valtonen, P. (285) 239)

**Histamine**

5-HT (5-hydroxytryptamine, serotonin); Dexfenfluramine; Methysergide; Microdialysis; Hypothalamus (Laitinen, K.S.M. (285) 159)

Noradrenaline; Atipamezole;  $\alpha_2$ -Adrenoceptor antagonist; Microdialysis, in vivo; Hypothalamus (Laitinen, K.S.M. (285) 255)

**5-HT (5-hydroxytryptamine, serotonin)**

Phosphoinositide hydrolysis; Immobilization stress; Imipramine (Okuyama, N. (285) 61)

Histamine; Dexfenfluramine; Methysergide; Microdialysis; Hypothalamus (Laitinen, K.S.M. (285) 159)

**5-HT<sub>1A</sub> receptor**

5-HT<sub>1B</sub> receptor; Hippocampus; Scopolamine; Spatial memory; (Microinjection) (Buhot, M.-C. (285) 221)

**5-HT<sub>1B</sub> receptor**

5-HT<sub>1A</sub> receptor; Hippocampus; Scopolamine; Spatial memory; (Microinjection) (Buhot, M.-C. (285) 221)

**5-HT<sub>3</sub> receptor**

GK-128; Emesis; (*Suncus murinus*) (Ito, C. (285) 37)

**5-HT<sub>1D</sub> receptor agonist**

$\alpha_1$ -Adrenoceptor agonist; Hypothermia (Kalkman, H.O. (285) 313)

**Hypertension**

Iloprost; Nitric oxide (NO); Acute inflammation; Captopril; (2K-1C rat) (Medeiros, M.V. (285) 109)

**Hypothalamus**

Histamine; 5-HT (5-hydroxytryptamine, serotonin); Dexfenfluramine; Methysergide; Microdialysis (Laitinen, K.S.M. (285) 159)

Histamine; Noradrenaline; Atipamezole;  $\alpha_2$ -Adrenoceptor antagonist; Microdialysis, in vivo (Laitinen, K.S.M. (285) 255)

**Hypothalamus-pituitary-adrenal axis**

ACTH (adrenocorticotrophic hormone); Cocaine; Corticosterone (Schmidt, E.D. (285) 317)

**Hypothermia**

$\alpha_1$ -Adrenoceptor agonist; 5-HT<sub>1D</sub> receptor agonist (Kalkman, H.O. (285) 313)

**Iloprost**

Nitric oxide (NO); Acute inflammation; Captopril; Hypertension; (2K-1C rat) (Medeiros, M.V. (285) 109)

**Imidazoline**

K<sub>ATP</sub> channel; Cardiac myocyte; (Guinea-pig) (Lee, K. (285) 309)

**Imipramine**

Phosphoinositide hydrolysis; Immobilization stress; 5-HT (5-hydroxytryptamine, serotonin) (Okuyama, N. (285) 61)

**Immobilization stress**

Phosphoinositide hydrolysis; 5-HT (5-hydroxytryptamine, serotonin); Imipramine (Okuyama, N. (285) 61)

**Intracellular recording**

Dexmedetomidine; Locus ceruleus; Brain slice;  $\alpha_{2A}$ -Adrenoceptor (Chiu, T.-H. (285) 261)

**Intracerebral arteriole, rat**

PACAP (pituitary adenylate cyclase activating polypeptide); Cerebral artery, canine; Endothelium-derived contracting factor; Prostaglandin F<sub>2 $\alpha$</sub>  (Anzai, M. (285) 173)

**IRL1620**

Endothelin; Endothelin receptor subtype; PD145065; BQ-123; Tachyphylaxis (Miasiro, N. (285) 247)

**Ischemic arrhythmia**

Antiarrhythmic, class I; ECG (electrocardiogram); (Selectivity) (Barrett, T.D. (285) 229)

**Isoprostane**

Myometrium, human; Contraction; Prostanoid TP receptor; U46619 (Crankshaw, D. (285) 151)

**K<sup>+</sup> channel**

Cryptolepine (5-methylquindoline); Vasodilation; Kidney, rat; G-protein; Ca<sup>2+</sup> channel; Pertussis toxin (Oyekan, A.O. (285) 1)

**K<sub>ATP</sub> channel**

Imidazoline; Cardiac myocyte; (Guinea-pig) (Lee, K. (285) 309)

**Kidney, rat**

Cryptolepine (5-methylquindoline); Vasodilation; G-protein; K<sup>+</sup> channel; Ca<sup>2+</sup> channel; Pertussis toxin (Oyekan, A.O. (285) 1)

**Kynurenic acid**

8-OH-DPAT (8-hydroxy-2-(di-*n*-propylamino)tetralin); Nucleus tractus solitarius; Lateral tegmental field; Muscimol (Vayssettes-Courchay, C. (285) 299)

**Lateral tegmental field**

8-OH-DPAT (8-hydroxy-2-(di-*n*-propylamino)tetralin); Nucleus tractus solitarius; Muscimol; Kynurenic acid (Vayssettes-Courchay, C. (285) 299)

**Leukotriene**

Nitric oxide (NO); Tracheal hyperresponsiveness; (Guinea pig) (Folkerts, G. (285) R1)

**Lipid peroxidation**

Cerebral ischemia; Hippocampus; *N*<sup>G</sup>-Nitro-L-arginine methyl ester; (Gerbil) (Caldwell, M. (285) 203)

**Locomotor activity**

Tolerance; Morphine; Thyrotropin; Prolactin; Growth hormone; Rectal temperature (Rauhala, P. (285) 69)

**Locus ceruleus**

Dexmedetomidine; Brain slice; Intracellular recording;  $\alpha_{2A}$ -Adrenoceptor (Chiu, T.-H. (285) 261)

**Marine product**

2-Polyprenyl-1,4-hydroquinone; Phospholipase A<sub>2</sub>; Neutrophil, human; Anti-inflammatory drug (Gil, B. (285) 281)

**Maxillary sinus**

Cilia; Formoterol; Terbutaline; Trachea; Mucociliary clearance (Lindberg, S. (285) 275)

**Mechanism of arrhythmia**

Cardiac electropharmacology; Antiarrhythmic drug (Lee, J.H. (285) 25)

**Mediodorsal thalamic nucleus**

Prefrontal cortex; Anesthesia; Excitatory amino acid (Pirot, S. (285) 45)

**Methysergide**

Histamine; 5-HT (5-hydroxytryptamine, serotonin); Dexfenfluramine; Microdialysis; Hypothalamus (Laitinen, K.S.M. (285) 159)

**Microdialysis**

Histamine; 5-HT (5-hydroxytryptamine, serotonin); Dexfenfluramine; Methysergide; Hypothalamus (Laitinen, K.S.M. (285) 159)

Aspartate; Atipamezole; Dexmedetomidine; Glutamate; GABA ( $\gamma$ -aminobutyric acid); Hippocampus (Valtonen, P. (285) 239)

Phencyclidine; Dopamine D<sub>1</sub> receptor antagonist; Dopamine D<sub>2</sub> receptor antagonist; Striatum, rat (Yonezawa, Y. (285) 305)

**Microdialysis, in vivo**

Histamine; Noradrenaline; Atipamezole;  $\alpha_2$ -Adrenoceptor antagonist; Hypothalamus (Laitinen, K.S.M. (285) 255)

**Morphine**

Tolerance; Thyrotropin; Prolactin; Growth hormone; Locomotor activity; Rectal temperature (Rauhala, P. (285) 69)

Nitric oxide (NO); Nitric oxide (NO) synthase; Brain (Leza, J.-C. (285) 95)

**Motor cortex**

GABA<sub>B</sub> receptor antagonist; CGP 35348; Pyramidal tract neuron; Transcallosal response, cat (Chowdhury, S.A. (285) 99)

**Mucociliary clearance**

Cilia; Formoterol; Terbutaline; Trachea; Maxillary sinus (Lindberg, S. (285) 275)

**Muscarinic receptor subtype**

Zamifenacin (Watson, N. (285) 135)

**Muscimol**

8-OH-DPAT (8-hydroxy-2-(di-*n*-propylamino)tetralin); Nucleus tractus solitarius; Lateral tegmental field; Kynurenic acid (Vayssettes-Courchay, C. (285) 299)

**Myometrium, human**

Endothelin; Endothelin ET<sub>A</sub> receptor; Endothelin ET<sub>A</sub> receptor selective antagonist (Héluy, V. (285) 89)

Isoprostane; Contraction; Prostanoid TP receptor; U46619 (Crankshaw, D. (285) 151)

**NANC (non-adrenergic non-cholinergic)**

Feedback inhibition; Nitrergic nerve; Nitric oxide (NO); Gastric fundus; (Rat) (De Man, J.G. (285) 269)

**Neuroimmunomodulation**

Cyclosporine; Stress; Sympathetic nervous system; Parasympathetic nervous system; Submaxillary lymph node; Superior cervical ganglion; Chorda tympani (Esquifino, A.I. (285) 143)

**Neutral endopeptidase**

Diabetic vasculopathy; Capillary permeability; Streptozotocin (Chakir, M. (285) 11)

**Neutrophil, human**

2-Polyprenyl-1,4-hydroquinone; Marine product; Phospholipase A<sub>2</sub>; Anti-inflammatory drug (Gil, B. (285) 281)

**Nitrergic nerve**

Feedback inhibition; Nitric oxide (NO); NANC (non-adrenergic non-cholinergic); Gastric fundus; (Rat) (De Man, J.G. (285) 269)

**Nitric oxide (NO)**

Morphine; Nitric oxide (NO) synthase; Brain (Leza, J.-C. (285) 95)

Iloprost; Acute inflammation; Captopril; Hypertension; (2K-1C rat) (Medeiros, M.V. (285) 109)

Ca<sup>2+</sup>; Ba<sup>2+</sup>; Sr<sup>2+</sup>; Coronary artery, porcine; Diltiazem (Ohashi, K. (285) 165)

Feedback inhibition; Nitrergic nerve; NANC (non-adrenergic non-cholinergic); Gastric fundus; (Rat) (De Man, J.G. (285) 269)

Tracheal hyperresponsiveness; Leukotriene; (Guinea pig) (Folkerts, G. (285) R1)

**Nitric oxide (NO) synthase**

Morphine; Nitric oxide (NO); Brain (Leza, J.-C. (285) 95)

***N*<sup>G</sup>-Nitro-L-arginine methyl ester**

Cerebral ischemia; Hippocampus; Lipid peroxidation; (Gerbil) (Caldwell, M. (285) 203)

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

NMDA receptor; mGlu receptor; *t*-ACPD (*trans*-(±)-1-amino-1,3-cyclopentanedicarboxylic acid); L-AP-3 (L-2-amino-3-phosphonopropionate); Periaqueductal gray matter (Leyva, J. (285) 123)

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

Dopamine; Substantia nigra; GABA ( $\gamma$ -aminobutyric acid); Pyrrolidinone (Shepard, P.D. (285) 79)

Amantadine; *c-fos*; Dopamine; Striatum (Tomitaka, S.-i. (285) 207)

AMPA ((*RS*)-2-amino-3-(3-hydroxy-5-methylisoxazol-4-yl)propionic acid); ATPA ((*RS*)-2-amino-3-(3-hydroxy-5-*tert*-butylisoxazol-4-yl)propionic acid); Cue; Convulsion; Glutamate receptor; (Rat); (Mouse) (Arnt, J. (285) 289)

#### NMDA receptor

mGlu receptor; NMDA (*N*-methyl-D-aspartate); *t*-ACPD (*trans*-(±)-1-amino-1,3-cyclopentanedicarboxylic acid); L-AP-3 (L-2-amino-3-phosphono-propionate); Periaqueductal gray matter (Leyva, J. (285) 123)

#### Nonpeptide

Angiotensin II; CS-866; Angiotensin receptor antagonist; Angiotensin AT<sub>1</sub> receptor, selective (Mizuno, M. (285) 181)

#### Noradrenaline

Histamine; Atipamezole; α<sub>2</sub>-Adrenoceptor antagonist; Microdialysis, in vivo; Hypothalamus (Laitinen, K.S.M. (285) 255)

#### Nucleus tractus solitarii

8-OH-DPAT (8-hydroxy-2-(di-*n*-propylamino)tetralin); Lateral tegmental field; Muscimol; Kynurenic acid (Vayssettes-Courchay, C. (285) 299)

#### 8-OH-DPAT (8-hydroxy-2-(di-*n*-propylamino)tetralin)

Nucleus tractus solitarii; Lateral tegmental field; Muscimol; Kynurenic acid (Vayssettes-Courchay, C. (285) 299)

#### OPC-21268

[Arg<sup>8</sup>]Vasopressin; Coronary artery, human; Vasopressin V<sub>1</sub> receptor; OPC-31260; SR 49059; (Human) (Bax, W.A. (285) 199)

#### OPC-31260

[Arg<sup>8</sup>]Vasopressin; Coronary artery, human; Vasopressin V<sub>1</sub> receptor; OPC-21268; SR 49059; (Human) (Bax, W.A. (285) 199)

#### PACAP (pituitary adenylate cyclase activating polypeptide)

Cerebral artery, canine; Intracerebral arteriole, rat; Endothelium-derived contracting factor; Prostaglandin F<sub>2α</sub> (Anzai, M. (285) 173)

#### Pain

Diabetes; Formalin test; Aldose reductase; Polyol pathway; Diabetic neuropathy (Calcutt, N.A. (285) 189)

#### Parasympathetic nervous system

Neuroimmunomodulation; Cyclosporine; Stress; Sympathetic nervous system; Submaxillary lymph node; Superior cervical ganglion; Chorda tympani (Esquifino, A.I. (285) 143)

#### PD145065

Endothelin; IRL1620; Endothelin receptor subtype; BQ-123; Tachyphylaxis (Miasiro, N. (285) 247)

#### (+)-Pentazocine

σ Binding site, heterogeneity; Radioreceptor assay; DTG (1,3-di(2-tolyl)guanidine); Brain; Spinal cord; (Mouse) (Kovács, K.J. (285) 127)

#### Periaqueductal gray matter

NMDA receptor; mGlu receptor; NMDA (*N*-methyl-D-aspartate); *t*-ACPD (*trans*-(±)-1-amino-1,3-cyclopentanedicarboxylic acid); L-AP-3 (L-2-amino-3-phosphono-propionate) (Leyva, J. (285) 123)

#### Pertussis toxin

Cryptolepine (5-methylquindoline); Vasodilation; Kidney, rat; G-protein; K<sup>+</sup> channel; Ca<sup>2+</sup> channel (Oyekan, A.O. (285) 1)

#### Phencyclidine

Dopamine D<sub>1</sub> receptor antagonist; Dopamine D<sub>2</sub> receptor antagonist; Striatum, rat; Microdialysis (Yonezawa, Y. (285) 305)

#### Phosphoinositide hydrolysis

Immobilization stress; 5-HT (5-hydroxytryptamine, serotonin); Imipramine (Okuyama, N. (285) 61)

#### Phospholipase A<sub>2</sub>

2-Polyprenyl-1,4-hydroquinone; Marine product; Neutrophil, human; Anti-inflammatory drug (Gil, B. (285) 281)

#### Polyol pathway

Diabetes; Formalin test; Aldose reductase; Pain; Diabetic neuropathy (Calcutt, N.A. (285) 189)

#### 2-Polyprenyl-1,4-hydroquinone

Marine product; Phospholipase A<sub>2</sub>; Neutrophil, human; Anti-inflammatory drug (Gil, B. (285) 281)

#### Prefrontal cortex

Mediodorsal thalamic nucleus; Anesthesia; Excitatory amino acid (Pirou, S. (285) 45)

#### Prolactin

Tolerance; Morphine; Thyrotropin; Growth hormone; Locomotor activity; Rectal temperature (Rauhala, P. (285) 69)

#### Prostaglandin F<sub>2α</sub>

PACAP (pituitary adenylate cyclase activating polypeptide); Cerebral artery, canine; Intracerebral arteriole, rat; Endothelium-derived contracting factor (Anzai, M. (285) 173)

#### Prostanoid TP receptor

Isoprostane; Myometrium, human; Contraction; U46619 (Crankshaw, D. (285) 151)

#### Psycholeine

Quadrigemine C; Somatostatin; Growth hormone; Adenylate cyclase (Rasolonjanahary, R. (285) 19)

#### Pyramidal tract neuron

GABA<sub>B</sub> receptor antagonist; CGP 35348; Transcallosal response, cat; Motor cortex (Chowdhury, S.A. (285) 99)

#### Pyrrolidinone

Dopamine; Substantia nigra; GABA (γ-aminobutyric acid); NMDA (*N*-methyl-D-aspartate) (Shepard, P.D. (285) 79)

#### Quadrigemine C

Psycholeine; Somatostatin; Growth hormone; Adenylate cyclase (Rasolonjanahary, R. (285) 19)

#### Radioreceptor assay

σ Binding site, heterogeneity; DTG (1,3-di(2-tolyl)guanidine); (+)-Pentazocine; Brain; Spinal cord; (Mouse) (Kovács, K.J. (285) 127)

#### Rectal temperature

Tolerance; Morphine; Thyrotropin; Prolactin; Growth hormone; Locomotor activity (Rauhala, P. (285) 69)

#### Resistance vessel

Elgodipine; Ca<sup>2+</sup> channel antagonist; Conductance vessel; (Rabbit); (Sheep) (Chulia, T. (285) 115)

#### Sarafotoxin S6c

Endothelin receptor; Cotransmission; Vas deferens; Endothelin-3; BQ-123; (Guinea-pig) (Mutafova-Yambolieva, V.N. (285) 213)

**SCH23390**

Cocaine; Haloperidol; Catalepsy; Supersensitivity; Subsensitvity; (Mouse) (Ushijima, I. (285) 55)

**Scopolamine**

5-HT<sub>1A</sub> receptor; 5-HT<sub>1B</sub> receptor; Hippocampus; Spatial memory; (Microinjection) (Buhot, M.-C. (285) 221)

**Somatostatin**

Psycholeine; Quadrigemine C; Growth hormone; Adenylate cyclase (Rasolonjanahary, R. (285) 19)

**Spatial memory**

5-HT<sub>1A</sub> receptor; 5-HT<sub>1B</sub> receptor; Hippocampus; Scopolamine; (Microinjection) (Buhot, M.-C. (285) 221)

**Spinal cord**

$\sigma$  Binding site, heterogeneity; Radioreceptor assay; DTG (1,3-di(2-tolyl)guanidine); (+)-Pentazocine; Brain; (Mouse) (Kovács, K.J. (285) 127)

**Sr<sup>2+</sup>**

Ca<sup>2+</sup>; Ba<sup>2+</sup>; Nitric oxide (NO); Coronary artery, porcine; Diltiazem (Ohashi, K. (285) 165)

**SR 49059**

[Arg<sup>8</sup>]Vasopressin; Coronary artery, human; Vasopressin V<sub>1</sub> receptor; OPC-21268; OPC-31260; (Human) (Bax, W.A. (285) 199)

**Streptozotocin**

Diabetic vasculopathy; Capillary permeability; Neutral endopeptidase (Chakir, M. (285) 11)

**Stress**

Neuroimmunomodulation; Cyclosporine; Sympathetic nervous system; Parasympathetic nervous system; Submaxillary lymph node; Superior cervical ganglion; Chorda tympani (Esquifino, A.I. (285) 143)

**Striatum**

Amantadine; *c-fos*; Dopamine; NMDA (*N*-methyl-D-aspartate) (Tomitaka, S.-i. (285) 207)

**Striatum, rat**

Phencyclidine; Dopamine D<sub>1</sub> receptor antagonist; Dopamine D<sub>2</sub> receptor antagonist; Microdialysis (Yonezawa, Y. (285) 305)

**Submaxillary lymph node**

Neuroimmunomodulation; Cyclosporine; Stress; Sympathetic nervous system; Parasympathetic nervous system; Superior cervical ganglion; Chorda tympani (Esquifino, A.I. (285) 143)

**Subsensitvity**

Cocaine; SCH23390; Haloperidol; Catalepsy; Supersensitivity; (Mouse) (Ushijima, I. (285) 55)

**Substantia nigra**

Dopamine; GABA ( $\gamma$ -aminobutyric acid); NMDA (*N*-methyl-D-aspartate); Pyrrolidinone (Shepard, P.D. (285) 79)

**Superior cervical ganglion**

Neuroimmunomodulation; Cyclosporine; Stress; Sympathetic nervous system; Parasympathetic nervous system; Submaxillary lymph node; Chorda tympani (Esquifino, A.I. (285) 143)

**Supersensitivity**

Cocaine; SCH23390; Haloperidol; Catalepsy; Subsensitvity; (Mouse) (Ushijima, I. (285) 55)

**Sympathetic nervous system**

Neuroimmunomodulation; Cyclosporine; Stress; Parasympathetic nervous system; Submaxillary lymph node; Superior cervical ganglion; Chorda tympani (Esquifino, A.I. (285) 143)

**Tachyphylaxis**

Endothelin; IRL1620; Endothelin receptor subtype; PD145065; BQ-123 (Miasiro, N. (285) 247)

**Terbutaline**

Cilia; Formoterol; Trachea; Maxillary sinus; Mucociliary clearance (Lindberg, S. (285) 275)

**Thyrotropin**

Tolerance; Morphine; Prolactin; Growth hormone; Locomotor activity; Rectal temperature (Rauhala, P. (285) 69)

**Tolerance**

Morphine; Thyrotropin; Prolactin; Growth hormone; Locomotor activity; Rectal temperature (Rauhala, P. (285) 69)

**Trachea**

Cilia; Formoterol; Terbutaline; Maxillary sinus; Mucociliary clearance (Lindberg, S. (285) 275)

**Tracheal hyperresponsiveness**

Nitric oxide (NO); Leukotriene; (Guinea pig) (Folkerts, G. (285) R1)

**Transcallosal response, cat**

GABA<sub>B</sub> receptor antagonist; CGP 35348; Pyramidal tract neuron; Motor cortex (Chowdhury, S.A. (285) 99)

**U46619**

Isoprostane; Myometrium, human; Contraction; Prostanoid TP receptor (Crankshaw, D. (285) 151)

**Vas deferens**

Endothelin receptor; Cotransmission; Endothelin-3; BQ-123; Sarafotoxin S6c; (Guinea-pig) (Mutafova-Yambolieva, V.N. (285) 213)

**Vasodilation**

Cryptolepine (5-methylquindoline); Kidney, rat; G-protein; K<sup>+</sup> channel; Ca<sup>2+</sup> channel; Pertussis toxin (Oyekan, A.O. (285) 1)

**[Arg<sup>8</sup>]Vasopressin**

Coronary artery, human; Vasopressin V<sub>1</sub> receptor; OPC-21268; OPC-31260; SR 49059; (Human) (Bax, W.A. (285) 199)

**Vasopressin V<sub>1</sub> receptor**

[Arg<sup>8</sup>]Vasopressin; Coronary artery, human; OPC-21268; OPC-31260; SR 49059; (Human) (Bax, W.A. (285) 199)

**Voluntary  $\gamma$ -hydroxybutyric acid intake**

GBH ( $\gamma$ -hydroxybutyric acid); Alcoholism; (Rat) (Colombo, G. (285) 103)

**Zamifenacin**

Muscarinic receptor subtype (Watson, N. (285) 135)