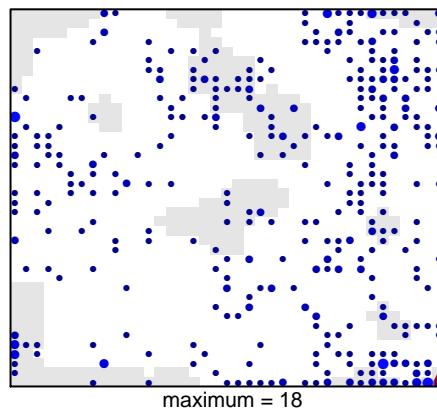
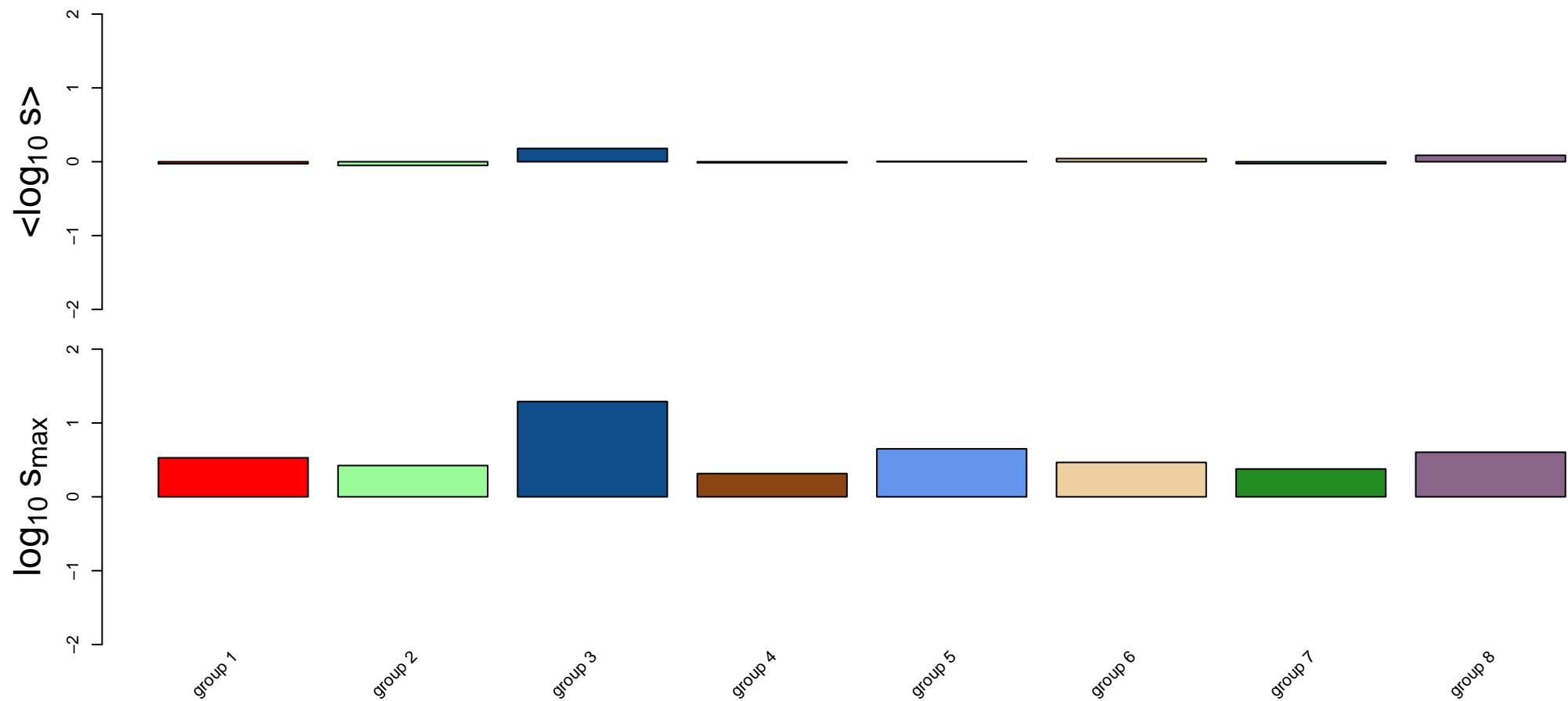
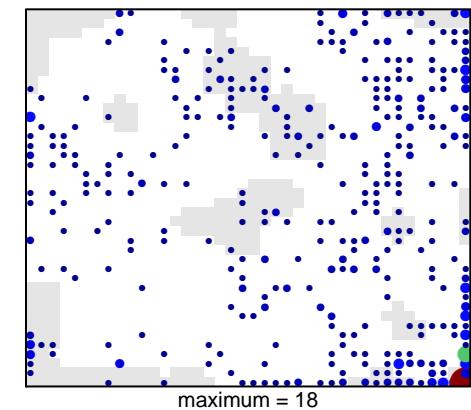


Neuroactive ligand–receptor interact

all genes

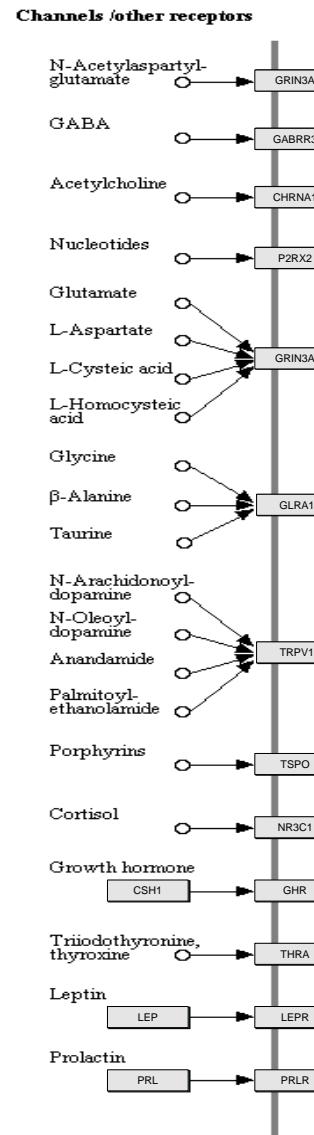
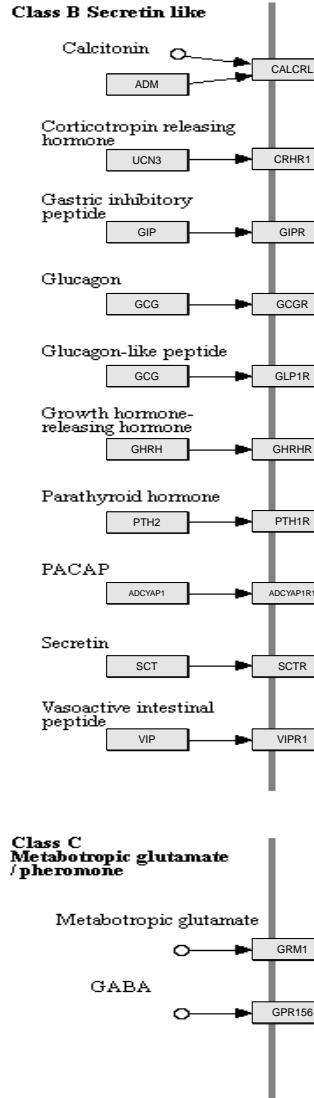
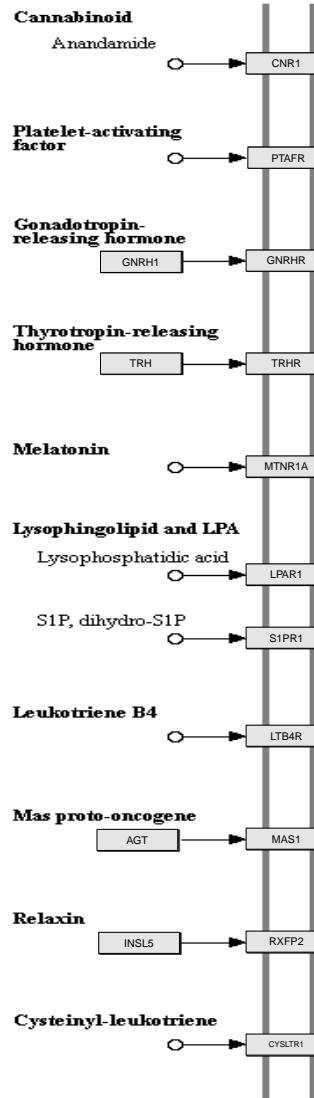
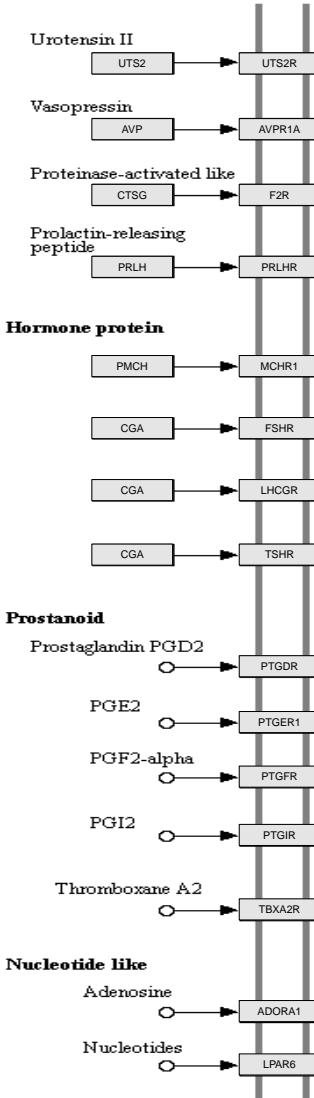
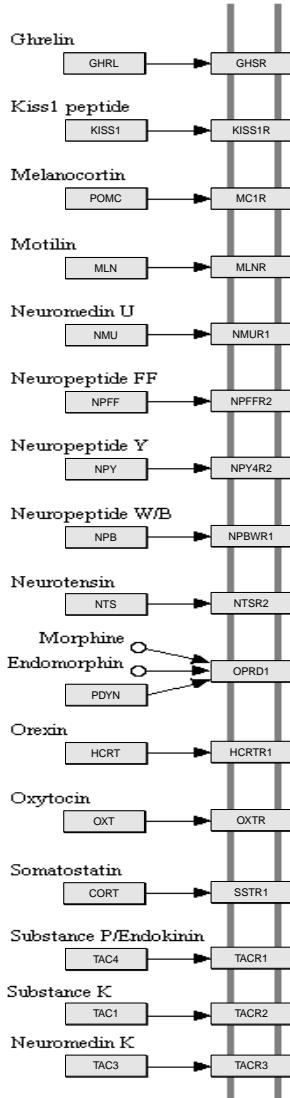
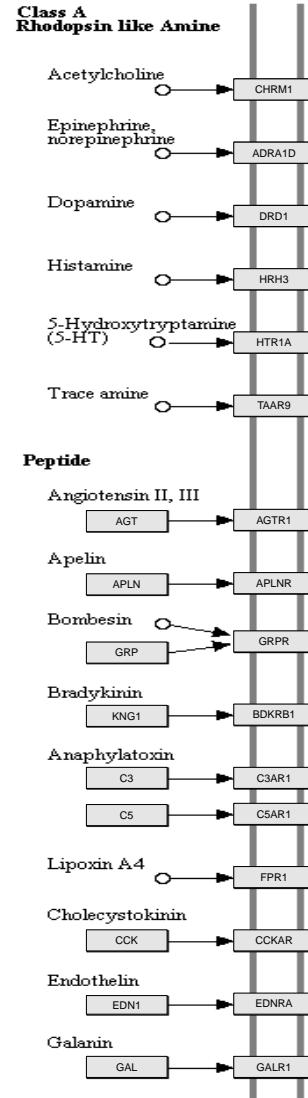


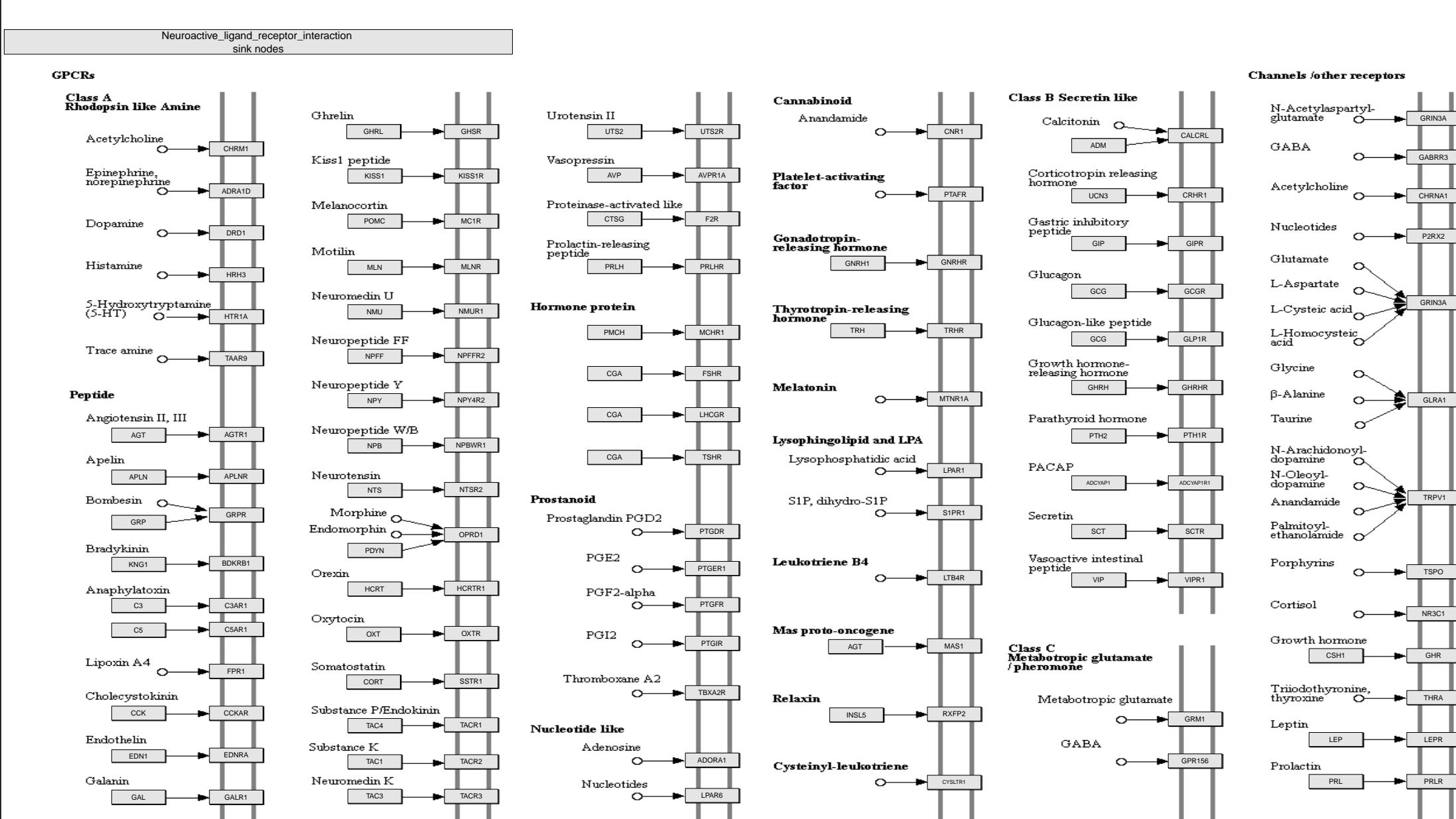
sink node genes



Neuroactive_ligand_receptor_interaction
genes with data

GPCRs

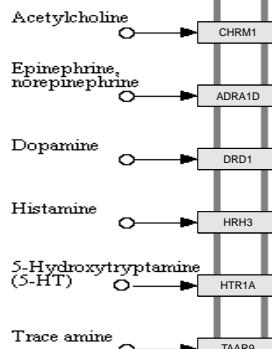




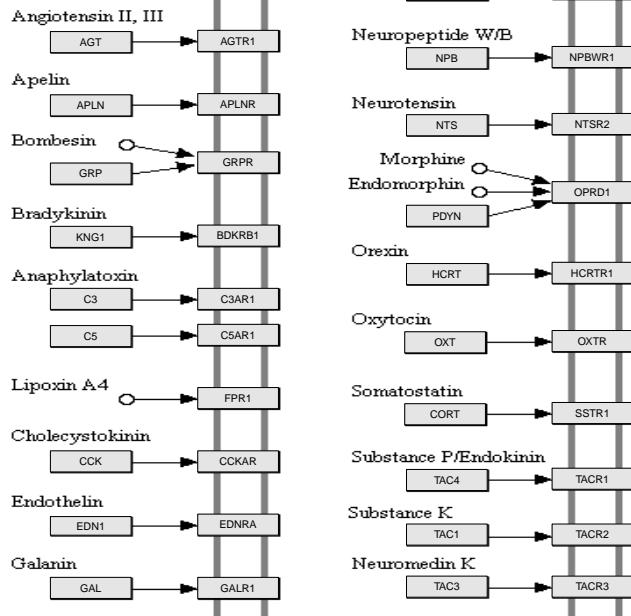
Neuroactive_ligand_receptor_interaction group 1

GPCRs

Class A Rhodopsin like Amine



Peptide



Urotensin II

Vasopressin

Proteinase-activated like

Prolactin-releasing peptide

Hormone protein

CGA

CGA

CGA

Prostanoid

Prostaglandin PGD2

PGE2

PGF2-alpha

PGI2

Thromboxane A2

Nucleotide like

Adenosine

Nucleotides

Cannabinoid
Anandamide

Platelet-activating factor

Gonadotropin-releasing hormone

Thyrotropin-releasing hormone

Melatonin

Lysophingolipid and LPA

Lysophosphatidic acid

S1P, dihydro-S1P

Leukotriene B4

Mas proto-oncogene

Relaxin

Cysteinyl-leukotriene

Class B Secretin like

Calcitonin

Corticotropin releasing hormone

Gastric inhibitory peptide

Glucagon

Glucagon-like peptide

Growth hormone-releasing hormone

MTNR1A

Parathyroid hormone

PACAP

Secretin

Vasoactive intestinal peptide

Class C Metabotropic glutamate/pheromone

Metabotropic glutamate

GABA

Channels /other receptors

N-Acetylaspartyl-glutamate

GABA

Acetylcholine

Nucleotides

Glutamate

L-Aspartate

L-Cysteic acid

L-Homocysteic acid

Glycine

B-Alanine

Taurine

N-Arachidonoyl-dopamine

N-Oleoyl-dopamine

Anandamide

Palmitoyl-ethanolamide

Porphyrins

Cortisol

Growth hormone

Triiodothyronine, thyroxine

Leptin

Prolactin

TSPO

NR3C1

GHR

THRA

LEPR

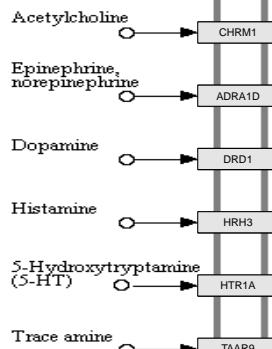
PRLR

GPR156

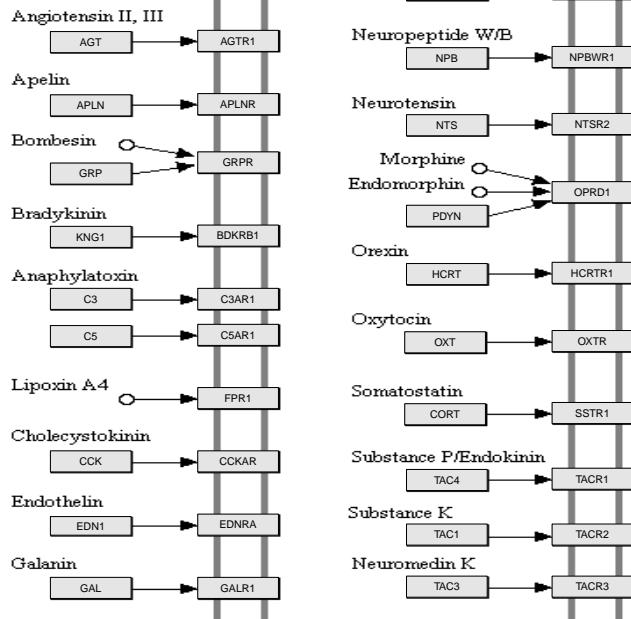
Neuroactive_ligand_receptor_interaction group 2

GPCRs

Class A Rhodopsin like Amine



Peptide



Urotensin II

Vasopressin

Proteinase-activated like

Prolactin-releasing peptide

Hormone protein

Thyrotropin-releasing hormone

Melatonin

Lysophingolipid and LPA

Prostanoid

Leukotriene B4

Mas proto-oncogene

Relaxin

Nucleotide like

Cannabinoid
Anandamide

Platelet-activating factor

Gonadotropin-releasing hormone

Thyrotropin-releasing hormone

Melatonin

Lysophosphatidic acid

S1P, dihydro-S1P

Leukotriene B4

Mas1

RXFP2

CVSLTR1

Channels /other receptors

Class A Secretin like

Calcitonin

Corticotropin releasing hormone

Gastric inhibitory peptide

Glucagon

Glucagon-like peptide

Growth hormone-releasing hormone

Glycine

β -Alanine

Taurine

N-Arachidonoyl-dopamine

N-Oleoyl-dopamine

Anandamide

Palmitoyl-ethanolamide

Porphyrins

Cortisol

Growth hormone

Triiodothyronine, thyroxine

Leptin

Prolactin

GRIN3A

GABBR3

CHRNA1

P2RX2

GRIP

GCGR

GLP1R

GHRHR

GLRA1

GLRH

PTHR1

ADCYAP1R1

SCTR

VIPR1

TSPO

NR3C1

GHR

THRA

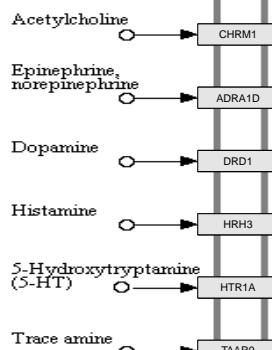
LEPR

PRLR

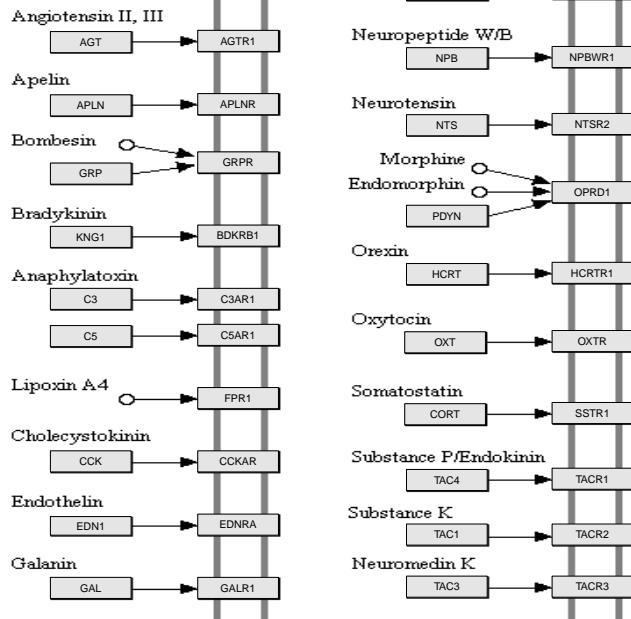
Neuroactive_ligand_receptor_interaction
group 3

GPCRs

Class A Rhodopsin like Amine



Peptide



Urotensin II

Vasopressin

Proteinase-activated like

Prolactin-releasing peptide

Hormone protein

CGA

CGA

CGA

Prostanoid

Prostaglandin PGD2

PGE2

PGF2-alpha

PGI2

Thromboxane A2

Nucleotide like

Adenosine

Nucleotides

Cannabinoid
Anandamide

Platelet-activating factor

Gonadotropin-releasing hormone

Thyrotropin-releasing hormone

Melatonin

Lysophingolipid and LPA

Lysophosphatidic acid

S1P, dihydro-S1P

Leukotriene B4

Mas proto-oncogene

Relaxin

Cysteinyl-leukotriene

Class B Secretin like

Calcitonin

Corticotropin releasing hormone

Gastric inhibitory peptide

Glucagon

Glucagon-like peptide

Growth hormone-releasing hormone

MTNR1A

LPAR1

S1PR1

LTB4R

MAS1

RXFP2

CVSLTR1

Channels /other receptors

N-Acetylaspartyl-glutamate

GABA

Acetylcholine

Nucleotides

Glutamate

L-Aspartate

L-Cysteic acid

L-Homocysteic acid

Glycine

B-Alanine

Taurine

N-Arachidonoyl-dopamine

N-Oleoyl-dopamine

Anandamide

Palmitoyl-ethanolamide

Porphyrins

Cortisol

Growth hormone

Triiodothyronine, thyroxine

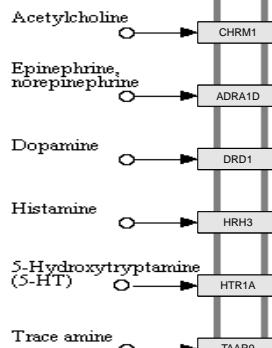
Leptin

Prolactin

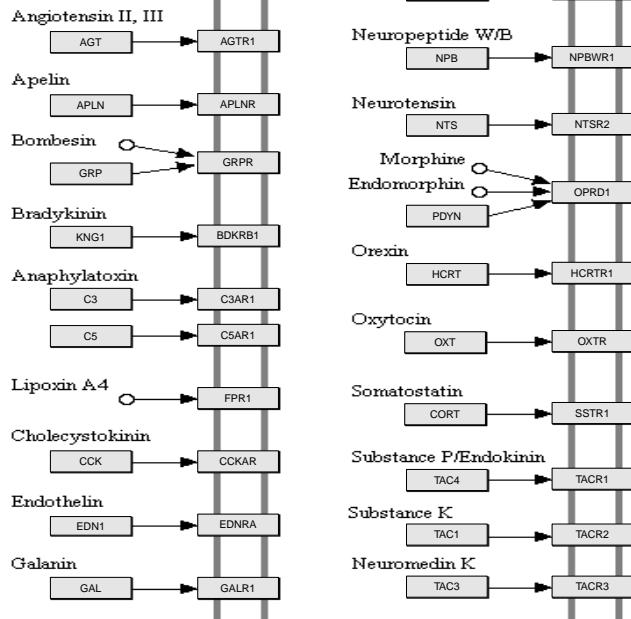
Neuroactive_ligand_receptor_interaction
group 4

GPCRs

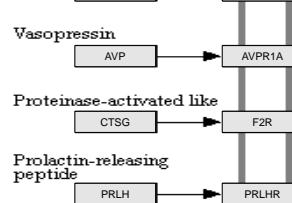
Class A Rhodopsin like Amine



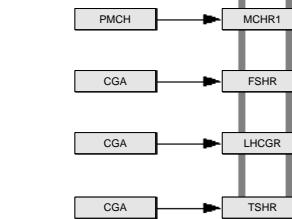
Peptide



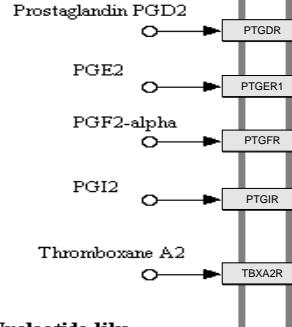
Urotensin II



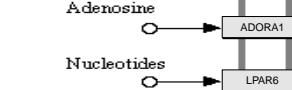
Hormone protein



Prostanoid

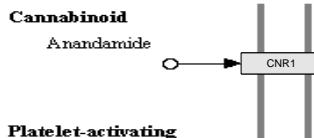


Nucleotide like

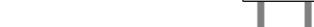


Cannabinoid

Anandamide



Platelet-activating factor



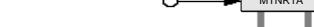
Gonadotropin-releasing hormone



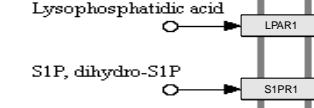
Thyrotropin-releasing hormone



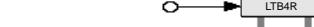
Melatonin



Lysophingolipid and LPA



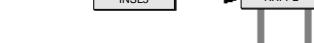
Leukotriene_B4



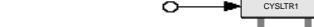
Mas proto-oncogene



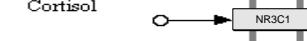
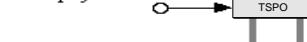
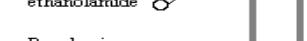
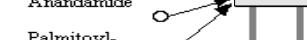
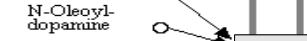
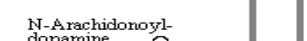
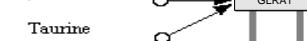
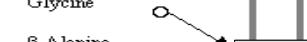
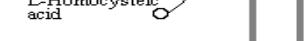
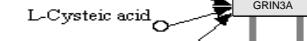
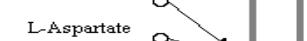
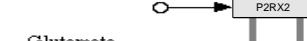
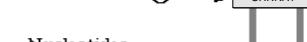
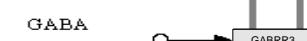
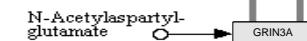
Relaxin



Cysteinyl-leukotriene



Channels /other receptors



Class C Metabotropic glutamate/pheromone

Metabotropic glutamate



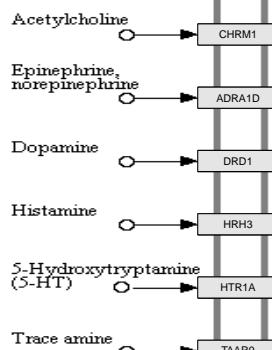
GABA



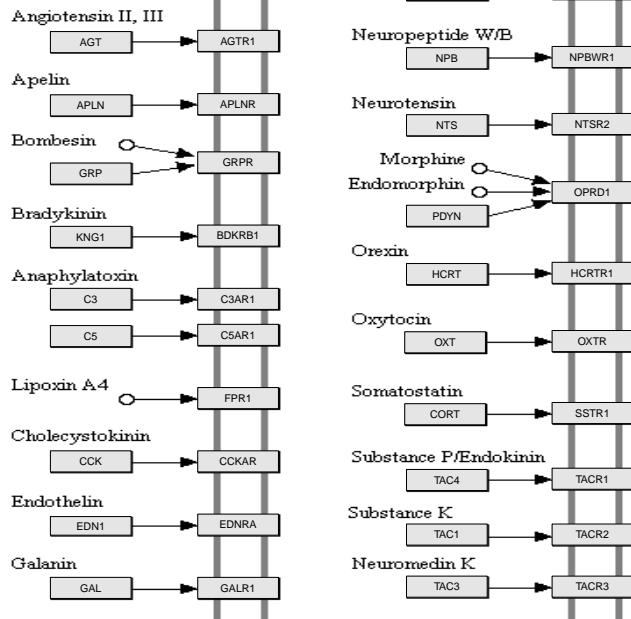
Neuroactive_ligand_receptor_interaction group 5

GPCRs

Class A Rhodopsin like Amine



Peptide



Urotensin II

Vasopressin

Proteinase-activated like

Prolactin-releasing peptide

Hormone protein

CGA

CGA

CGA

Prostanoid

Prostaglandin PGD2

PGE2

PGF2-alpha

PGI2

Thromboxane A2

Nucleotide like

Adenosine

Nucleotides

**Cannabinoid
Anandamide**

Platelet-activating factor

Gonadotropin-releasing hormone

Thyrotropin-releasing hormone

Melatonin

Lysophingolipid and LPA

Lysophosphatidic acid

S1P, dihydro-S1P

Leukotriene B4

Mas proto-oncogene

Relaxin

Cysteinyl-leukotriene

Class B Secretin like

Calcitonin

Corticotropin releasing hormone

Gastric inhibitory peptide

Glucagon

Glucagon-like peptide

Growth hormone-releasing hormone

Parathyroid hormone

PACAP

Secretin

Vasoactive intestinal peptide

Class C Metabotropic glutamate/pheromone

Metabotropic glutamate

GABA

Channels /other receptors

N-Acetylaspartyl-glutamate

GABA

Acetylcholine

Nucleotides

Glutamate

L-Aspartate

L-Cysteic acid

L-Homocysteic acid

Glycine

B-Alanine

Taurine

N-Arachidonoyl-dopamine

N-Oleoyl-dopamine

Anandamide

Palmitoyl-ethanolamide

Porphyrins

Cortisol

Growth hormone

Triiodothyronine, thyroxine

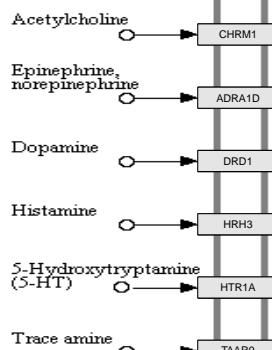
Leptin

Prolactin

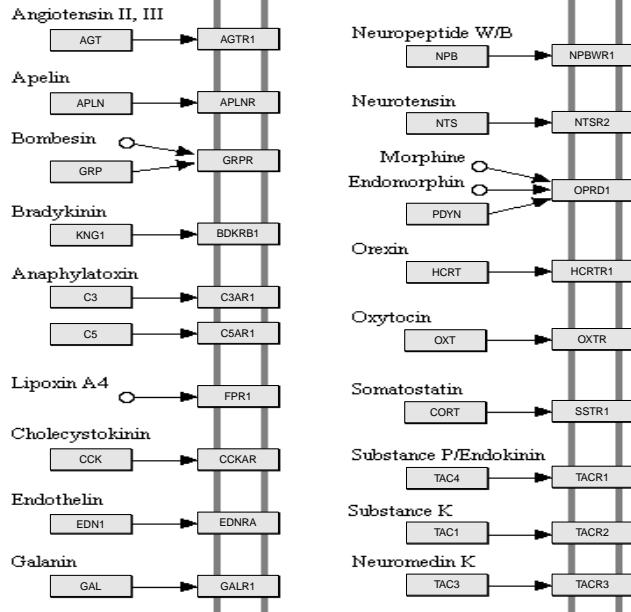
Neuroactive_ligand_receptor_interaction
group 6

GPCRs

Class A Rhodopsin like Amine



Peptide



Urotensin II

Vasopressin

Proteinase-activated like

Prolactin-releasing peptide

Hormone protein

CGA

CGA

CGA

Prostanoid

Prostaglandin PGD2

PGE2

PGF2-alpha

PGI2

Thromboxane A2

Nucleotide like

Adenosine

Nucleotides

Cannabinoid
Anandamide

Platelet-activating factor

Gonadotropin-releasing hormone

Thyrotropin-releasing hormone

Melatonin

Lysophingolipid and LPA

Lysophosphatidic acid

S1P, dihydro-S1P

Leukotriene B4

Mas proto-oncogene

Relaxin

Cysteinyl-leukotriene

Class B Secretin like

Calcitonin

Corticotropin releasing hormone

Gastric inhibitory peptide

Glucagon

Glucagon-like peptide

Growth hormone-releasing hormone

Glycine

β -Alanine

Taurine

N-Arachidonoyl-dopamine

N-Oleoyl-dopamine

Anandamide

Palmitoyl-ethanolamide

Porphyrins

Cortisol

Growth hormone

Triiodothyronine, thyroxine

Leptin

Prolactin

Channels /other receptors

N-Acetylaspartyl-glutamate

GABA

Acetylcholine

Nucleotides

Glutamate

L-Aspartate

L-Cysteic acid

L-Homocysteic acid

Glycine

β -Alanine

Taurine

N-Arachidonoyl-dopamine

N-Oleoyl-dopamine

Anandamide

Palmitoyl-ethanolamide

Porphyrins

TSPO

NR3C1

GHR

THRA

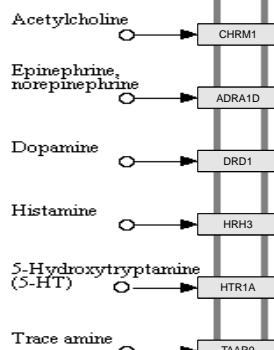
LEPR

PRLR

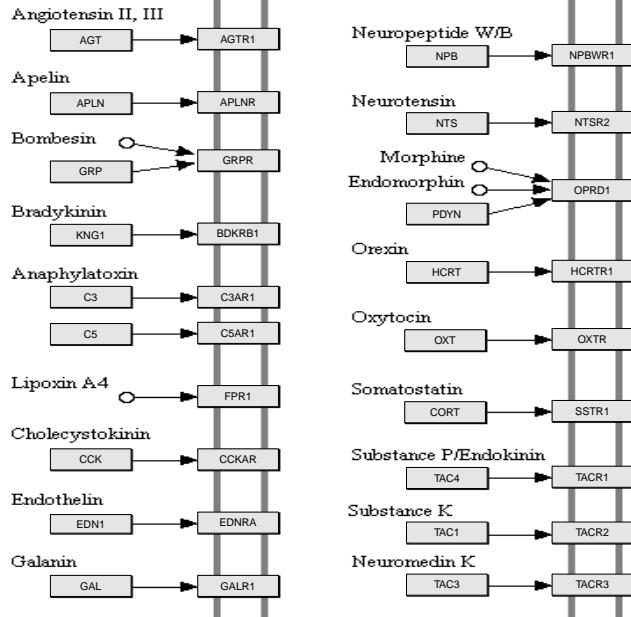
Neuroactive_ligand_receptor_interaction
group 7

GPCRs

Class A Rhodopsin like Amine



Peptide



Urotensin II

Vasopressin

Proteinase-activated like

Prolactin-releasing peptide

Hormone protein

CGA

CGA

CGA

Prostanoid

Prostaglandin PGD2

PGE2

PGF2-alpha

PGI2

Thromboxane A2

Nucleotide like

Adenosine

Nucleotides

Cannabinoid
Anandamide

Platelet-activating factor

Gonadotropin-releasing hormone

Thyrotropin-releasing hormone

Melatonin

Lysophingolipid and LPA

Lysophosphatidic acid

S1P, dihydro-S1P

Leukotriene B4

Mas proto-oncogene

Relaxin

Cysteinyl-leukotriene

Class B Secretin like

Calcitonin

Corticotropin releasing hormone

Gastric inhibitory peptide

Glucagon

Glucagon-like peptide

Growth hormone-releasing hormone

Parathyroid hormone

PACAP

Secretin

Vasoactive intestinal peptide

Class C Metabotropic glutamate/pheromone

Metabotropic glutamate

GABA

Channels /other receptors

N-Acetylaspartyl-glutamate

GABA

Acetylcholine

Nucleotides

Glutamate

L-Aspartate

L-Cysteic acid

L-Homocysteic acid

Glycine

B-Alanine

Taurine

N-Arachidonoyl-dopamine

N-Oleoyl-dopamine

Anandamide

Palmitoyl-ethanolamide

Porphyrins

Cortisol

Growth hormone

Triiodothyronine, thyroxine

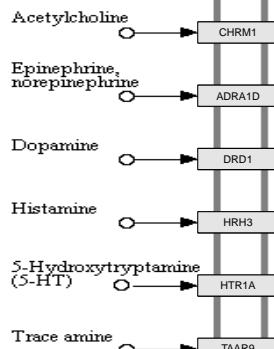
Leptin

Prolactin

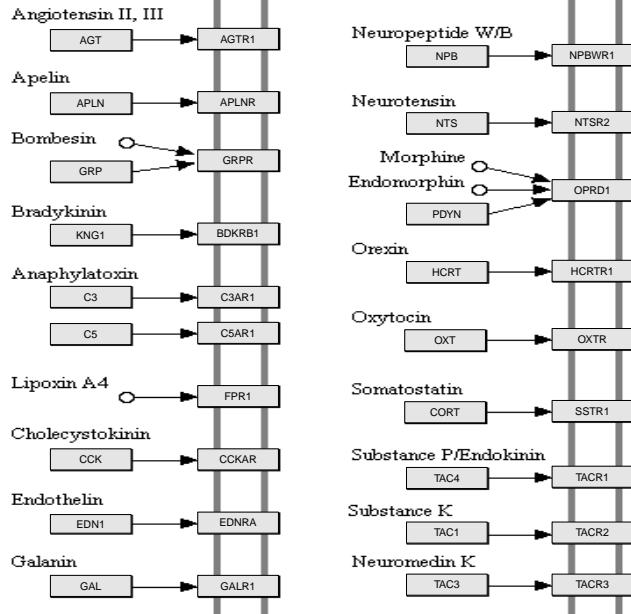
Neuroactive_ligand_receptor_interaction group 8

GPCRs

Class A Rhodopsin like Amine



Peptide



Urotensin II

Vasopressin

Proteinase-activated like

Prolactin-releasing peptide

Hormone protein

CGA

CGA

CGA

Prostanoid

Prostaglandin PGD2

PGE2

PGF2-alpha

PGI2

Thromboxane A2

Nucleotide like

Adenosine

Nucleotides

**Cannabinoid
Anandamide**

Platelet-activating factor

Gonadotropin-releasing hormone

Thyrotropin-releasing hormone

Melatonin

Lysophingolipid and LPA

Lysophosphatidic acid

S1P, dihydro-S1P

Leukotriene B4

Mas proto-oncogene

Relaxin

Cysteinyl-leukotriene

Class B Secretin like

Calcitonin

Corticotropin releasing hormone

Gastric inhibitory peptide

Glucagon

Glucagon-like peptide

Growth hormone-releasing hormone

MTNR1A

Parathyroid hormone

PACAP

Secretin

Vasoactive intestinal peptide

Class C Metabotropic glutamate/pheromone

Metabotropic glutamate

GABA

Channels /other receptors

