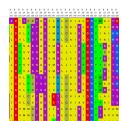




Aligned proteins
28,014 (14,950)



Structures
464 (218)

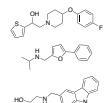


In development
and unpublished
(available for
user feedback)

Drugs +
in-trial agents
2,223 (0)



Ligands
198,577
(144,826)



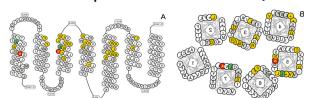
Structure
models
939* (1,125)



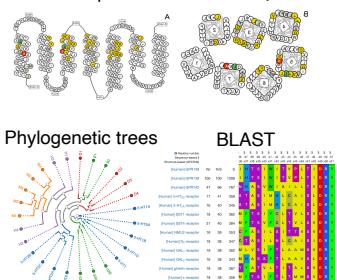
Genetic
variants
63,526 (0)



Snakeplots



Helix box plots



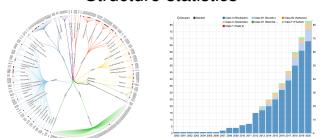
Phylogenetic trees



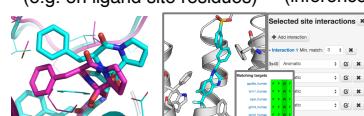
BLAST



Structure statistics



Focused structure superposition Site search
(e.g. on ligand site residues) (inference)



Ligand site mutation design tool

Mutant Suggestion List

GPCRs Number Analysis Acid Mutant Suggestion Homology Supporting receptors Supporting ligands Structure Interactions Mutagenesis Experiments

7x20	N102	L1A	●	3 receptors	45 ligands	1 polar	127	16
6x33	V114	A	●	12 receptors	53 ligands	hydroporphic	58 data points (New project)	16
6x51	F298	L1W A1Y	●	22 receptors	116 ligands	hydroporphic	72	16
5x32	D113	L1A	●	29 receptors	123 ligands	polar	157	16
6x52	P200	L1W A1Y	●	15 receptors	106 ligands	hydroporphic	14	16
4x52	F102	L1W A1Y	●	8 receptors	67 ligands	hydroporphic	12	16
5x43	S303	A	●	10 receptors	60 ligands	water	60	16
6x55	N293	L1A	●	11 receptors	60 ligands	water	119	16
7x42	Y316	F1A L1M	●	20 receptors	67 ligands	aromatic	21	16
5x61	S207	A	●	7 receptors	31 ligands	hydroporphic	19	16
5x28	N156	L1W A1H	●	7 receptors	56 ligands	hydroporphic	19	16

Construct design tool

This is a tool to design structure constructs based on published GPCR structures.

Read about the tool here

Target: GPCRdb (2021-07-01)

Therapeutic area: All

Mutant type: None

Construct type: Custom constructs

Reset

Truncation/fusion sites



Residues to keep: All

Residues to remove: None

Keep hydrophobic: Yes

Keep aromatic: Yes

Keep polar: Yes

Keep water: Yes

Keep hydroporphic: Yes

Keep polar: Yes

Keep aromatic: Yes

Keep hydrophobic: Yes

Residues to keep	Residues to remove	Keep hydrophobic	Keep aromatic	Keep polar	Keep water	Keep hydroporphic	Keep polar	Keep aromatic	Keep hydrophobic
1	0	1	0	0	0	0	0	0	0
2	0	1	0	0	0	0	0	0	0
3	0	1	0	0	0	0	0	0	0
4	0	1	0	0	0	0	0	0	0
5	0	1	0	0	0	0	0	0	0
6	0	1	0	0	0	0	0	0	0
7	0	1	0	0	0	0	0	0	0
8	0	1	0	0	0	0	0	0	0
9	0	1	0	0	0	0	0	0	0
10	0	1	0	0	0	0	0	0	0

References

10 (0)

Most references
are from the GPCRdb paper (Liu et al., 2021).
See also the main reference and other references.
For more information on how to cite GPCRdb, see the Cite us section.

Collaboration & feedback info

- Data annotation
- Database development
- Scientific collaboration
- Social media
- Give feedback