Dan Donnelly

List of Publications by Year
in descending order

36 papers	2,016 citations	361413 20 h-index	361022 35 g-index
37 all docs	37 docs citations	37 times ranked	1843 citing authors

#	Article	IF	Citations
1	Environmentâ€specific amino acid substitution tables: Tertiary templates and prediction of protein folds. Protein Science, 1992, 1, 216-226.	7.6	288
2	Glucagon-Like Peptide-1 and Its Class B G Proteinâ€“Coupled Receptors: A Long March to Therapeutic Successes. Pharmacological Reviews, 2016, 68, 954-1013.	16.0	252
3	The structure and function of the glucagonâ€like peptideâ€1 receptor and its ligands. British Journal of Pharmacology, 2012, 166, 27-41.	5.4	192
4	A three-dimensional model of the Photosystem II reaction centre of Pisum sativum. Photosynthesis Research, 1992, 34, 287-300.	2.9	170
5	Modeling Î±â€helical transmembrane domains: The calculation and use of substitution tables for lipidâ€facing residues. Protein Science, 1993, 2, 55-70.	7.6	143
6	The Conformational Change Responsible for AT1 Receptor Activation Is Dependent upon Two Juxtaposed Asparagine Residues on Transmembrane Helices III and VII. Journal of Biological Chemistry, 1997, 272, 4245-4251.	3.4	102
7	A model for receptor-peptide binding at the glucagon-like peptide-1 (GLP-1) receptor through the analysis of truncated ligands and receptors. British Journal of Pharmacology, 2003, 140, 339-346.	5.4	92
8	The Isolated N-terminal Domain of the Glucagon-like Peptide-1 (GLP-1) Receptor Binds Exendin Peptides with Much Higher Affinity than GLP-1. Journal of Biological Chemistry, 2003, 278, 10195-10200.	3.4	90
9	The arrangement of the transmembrane helices in the secretin receptor family of G-protein-coupled receptors. FEBS Letters, 1997, 409, 431-436.	2.8	68
10	Seven-helix receptors: structure and modelling. Current Opinion in Structural Biology, 1994, 4, 582-589.	5.7	67
11	The prediction and orientation of Î±-helices from sequence alignments: the combined use of environment-dependent substitution tables, Fourier transform methods and helix capping rules. Protein Engineering, Design and Selection, 1994, 7, 645-653.	2.1	58
12	The glucagon-like peptide-1 receptor binding site for the N-terminus of GLP-1 requires polarity at Asp198 rather than negative charge. FEBS Letters, 2002, 530, 244-248.	2.8	55
13	Conserved polar residues in the transmembrane domain of the human tachykinin NK2 receptor: functional roles and structural implications. Biochemical Journal, 1999, 339, 55-61.	3.7	47
14	The GIP Receptor Displays Higher Basal Activity than the GLP-1 Receptor but Does Not Recruit GRK2 or Arrestin3 Effectively. PLoS ONE, 2014, 9, e106890.	2.5	42
15	Non-peptidic antagonists of the CGRP receptor, BIBN4096BS and MK-0974, interact with the calcitonin receptor-like receptor via methionine-42 and RAMP1 via tryptophan-74. Biochemical and Biophysical Research Communications, 2010, 391, 437-442.	2.1	39
16	The positive charge at Lys-288 of the glucagon-like peptide-1 (GLP-1) receptor is important for binding the N-terminus of peptide agonists. FEBS Letters, 2003, 553, 342-346.	2.8	37
17	Met-204 And Tyr-205 Are Together Important For Binding Glp-1 Receptor Agonists But Not Their N-Terminally Truncated Analogues. Protein and Peptide Letters, 2004, 11, 15-22.	0.9	37
18	The peptide agonist-binding site of the glucagon-like peptide-1 (GLP-1) receptor based on site-directed mutagenesis and knowledge-based modelling. Bioscience Reports, 2016, 36, e00285.	2.4	29

#	Article	IF	Citations
19	The major determinant of exendinâ€4/glucagonâ€like peptide 1 differential affinity at the rat glucagonâ€like peptide 1 receptor Nâ€terminal domain is a hydrogen bond from SERâ€32 of exendinâ€4. British Journal of Pharmacology, 2010, 160, 1973-1984.	5.4	26
20	Conserved polar residues in the transmembrane domain of the human tachykinin NK2 receptor: functional roles and structural implications. Biochemical Journal, 1999, 339, 55.	3.7	20
21	Interactions of the Melanocortin-4 Receptor with the Peptide Agonist NDP-MSH. Journal of Molecular Biology, 2010, 401, 433-450.	4.2	20
22	Mapping interaction sites within the N-terminus of the calcitonin gene-related peptide receptor; the role of residues 23â€“60 of the calcitonin receptor-like receptor. Peptides, 2010, 31, 170-176.	2.4	20
23	Functional coupling of Cys-226 and Cys-296 in the glucagon-like peptide-1 (GLP-1) receptor indicates a disulfide bond that is close to the activation pocket. Peptides, 2010, 31, 2289-2293.	2.4	19
24	Predicting the point at which transmembrane helices protrude from the bilayer: a model of the antenna complexes from photosynthetic bacteria. Protein Engineering, Design and Selection, 1993, 6, 629-635.	2.1	18
25	Ligand-Receptor Interactions at the Parathyroid Hormone Receptors: Subtype Binding Selectivity Is Mediated via an Interaction between Residue 23 on the Ligand and Residue 41 on the Receptor. Molecular Pharmacology, 2008, 74, 605-613.	2.3	17
26	N-Terminal Phosphorylation of Parathyroid Hormone (PTH) Abolishes Its Receptor Activity. ACS Chemical Biology, 2014, 9, 2465-2470.	3.4	16
27	Structure of G-protein-linked receptors. Biochemical Society Transactions, 1993, 21, 869-873.	3.4	10
28	The Primary Ligand-Binding Interaction At The Glp-1 Receptor Is Via The Putative Helix Of The Peptide Agonists. Protein and Peptide Letters, 2004, 11, 9-14.	0.9	10
29	A mechanism for agonist activation of the glucagon-like peptide-1 (GLP-1) receptor through modelling & molecular dynamics. Biochemical and Biophysical Research Communications, 2018, 498, 359-365.	2.1	10
30	High affinity binding of the peptide agonist TIP-39 to the parathyroid hormone 2 (PTH 2) receptor requires the hydroxyl group of Tyr-318 on transmembrane helix 5. Biochemical Pharmacology, 2017, 127, 71-81.	4.4	7
31	Conformational induction is the key process for activation of the AT1 receptor. Biochemical Pharmacology, 2006, 71, 464-471.	4.4	5
32	A Non-peptidic photoactivatable antagonist for mapping the antagonist binding site of the tachykinin NK2 receptor. Bioorganic and Medicinal Chemistry Letters, 1996, 6, 605-608.	2.2	4
33	A salt bridge between Arg-20 on parathyroid hormone (PTH) and Asp-137 on the PTH1 receptor is essential for full affinity. Peptides, 2014, 61, 83-87.	2.4	4
34	The ligand binding site of the neurokinin 2 receptor. Site-directed mutagenesis and identification of neurokinin A binding residues in the human neurokinin 2 receptor.. Journal of Biological Chemistry, 1996, 271, 15298.	3.4	1
35	MTSEA prevents ligand binding to the human melanocortin-4 receptor by modification of cysteine 130 in transmembrane helix 3. FEBS Letters, 2005, 579, 285-291.	2.8	1
36	Over-expression of the N-terminal domain of the glucagon-like peptide-1 receptor in Escherichia coli. Biochemical Society Transactions, 1998, 26, S288-S288.	3.4	0