Cedric Govaerts

List of Publications by Year
in descending order

51 papers	4,780 citations	117625 34 h-index	189892 50 g-index
55 all docs	55 docs citations	55 times ranked	6492 citing authors

#	Article	IF	Citations
1	Evidence for assembly of prions with left-handed Â-helices into trimers. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 8342-8347.	7.1	519
2	Cloning of a Human Purinergic P2Y Receptor Coupled to Phospholipase C and Adenylyl Cyclase. Journal of Biological Chemistry, 1997, 272, 31969-31973.	3.4	316
3	Phosphatidylethanolamine Is a Key Regulator of Membrane Fluidity in Eukaryotic Cells. Journal of Biological Chemistry, 2016, 291, 3658-3667.	3.4	261
4	Allosteric regulation of G proteinâ€“coupled receptor activity by phospholipids. Nature Chemical Biology, 2016, 12, 35-39.	8.0	251
5	ChemR23, a putative chemoattractant receptor, is expressed in monocyte-derived dendritic cells and macrophages and is a coreceptor for SIV and some primary HIV-1 strains. European Journal of Immunology, 1998, 28, 1689-1700.	2.9	232
6	Structures of P-glycoprotein reveal its conformational flexibility and an epitope on the nucleotide-binding domain. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 13386-13391.	7.1	225
7	Glycoprotein hormone receptors: determinants in leucine-rich repeats responsible for ligand specificity. EMBO Journal, 2003, 22, 2692-2703.	7.8	184
8	Structural analysis of a nanoparticle containing a lipid bilayer used for detergent-free extraction of membrane proteins. Nano Research, 2015, 8, 774-789.	10.4	161
9	To stabilize neutrophil polarity, PIP3 and Cdc42 augment RhoA activity at the back as well as signals at the front. Journal of Cell Biology, 2006, 174, 437-445.	5.2	155
10	The Core Domain of Chemokines Binds CCR5 Extracellular Domains while Their Amino Terminus Interacts with the Transmembrane Helix Bundle. Journal of Biological Chemistry, 2003, 278, 5179-5187.	3.4	144
11	Multiple Charged and Aromatic Residues in CCR5 Amino-terminal Domain Are Involved in High Affinity Binding of Both Chemokines and HIV-1 Env Protein. Journal of Biological Chemistry, 1999, 274, 34719-34727.	3.4	137
12	Palmitoylation of CCR5 Is Critical for Receptor Trafficking and Efficient Activation of Intracellular Signaling Pathways. Journal of Biological Chemistry, 2001, 276, 23795-23804.	3.4	125
13	The TXP Motif in the Second Transmembrane Helix of CCR5. Journal of Biological Chemistry, 2001, 276, 13217-13225.	3.4	118
14	Primary Autosomal Recessive Microcephaly: Homozygosity Mapping of MCPH4 to Chromosome 15. American Journal of Human Genetics, 1999, 65, 1465-1469.	6.2	116
15	Lipids modulate the conformational dynamics of a secondary multidrug transporter. Nature Structural and Molecular Biology, 2016, 23, 744-751.	8.2	111
16	An Activation Switch in the Rhodopsin Family of G Protein-coupled Receptors. Journal of Biological Chemistry, 2005, 280, 17135-17141.	3.4	106
17	Extracellular Cysteines of CCR5 Are Required for Chemokine Binding, but Dispensable for HIV-1 Coreceptor Activity. Journal of Biological Chemistry, 1999, 274, 18902-18908.	3.4	104
18	A Conserved Asn in Transmembrane Helix 7 Is an On/Off Switch in the Activation of the Thyrotropin Receptor. Journal of Biological Chemistry, 2001, 276, 22991-22999.	3.4	104

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19	Constitutive activity of the melanocortin-4 receptor is maintained by its N-terminal domain and plays a role in energy homeostasis in humans. Journal of Clinical Investigation, 2004, 114, 1158-1164.	8.2	104
20	Molecular Genetics of Human Obesityâ€Associated MC4R Mutations. Annals of the New York Academy of Sciences, 2003, 994, 49-57.	3.8	102
21	Obesity-associated mutations in the melanocortin 4 receptor provide novel insights into its function. Peptides, 2005, 26, 1909-1919.	2.4	97
22	Ser and Thr Residues Modulate the Conformation of Pro-Kinked Transmembrane Î±-Helices. Biophysical Journal, 2004, 86, 105-115.	0.5	87
23	Activation of CCR5 by Chemokines Involves an Aromatic Cluster between Transmembrane Helices 2 and 3. Journal of Biological Chemistry, 2003, 278, 1892-1903.	3.4	85
24	Selective Targeting of TGF-Î² Activation to Treat Fibroinflammatory Airway Disease. Science Translational Medicine, 2014, 6, 241ra79.	12.4	79
25	Metal-induced conformational changes in ZneB suggest an active role of membrane fusion proteins in efflux resistance systems. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 11038-11043.	7.1	74
26	Glycineâ€“alanine repeats impair proper substrate unfolding by the proteasome. EMBO Journal, 2006, 25, 1720-1729.	7.8	73
27	Protonation drives the conformational switch in the multidrug transporter LmrP. Nature Chemical Biology, 2014, 10, 149-155.	8.0	68
28	Interactions between Phosphatidylethanolamine Headgroup and LmrP, a Multidrug Transporter. Journal of Biological Chemistry, 2008, 283, 9369-9376.	3.4	66
29	Mechanism of N-terminal modulation of activity at the melanocortin-4 receptor GPCR. Nature Chemical Biology, 2012, 8, 725-730.	8.0	59
30	An embedded lipid in the multidrug transporter LmrP suggests a mechanism for polyspecificity. Nature Structural and Molecular Biology, 2020, 27, 829-835.	8.2	57
31	Lysine 183 and Glutamic Acid 157 of the TSH Receptor: Two Interacting Residues with a Key Role in Determining Specificity toward TSH and Human CG. Molecular Endocrinology, 2002, 16, 722-735.	3.7	52
32	A lipid site shapes the agonist response of a pentameric ligand-gated ion channel. Nature Chemical Biology, 2019, 15, 1156-1164.	8.0	43
33	Ligand chain length drives activation of lipid G protein-coupled receptors. Scientific Reports, 2017, 7, 2020.	3.3	40
34	Lipid Composition Regulates the Orientation of Transmembrane Helices in HorA, an ABC Multidrug Transporter. Journal of Biological Chemistry, 2010, 285, 14144-14151.	3.4	37
35	A conserved Asn in TM7 of the thyrotropin receptor is a common requirement for activation by both mutations and its natural agonist. FEBS Letters, 2002, 517, 195-200.	2.8	34
36	Identification of Specific Lipid-binding Sites in Integral Membrane Proteins. Journal of Biological Chemistry, 2010, 285, 10519-10526.	3.4	33

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37	Prions: so many fibers, so little infectivity. Trends in Biochemical Sciences, 2004, 29, 162-165.	7.5	32
38	Influence of the Environment in the Conformation of Î±-Helices Studied by Protein Database Search and Molecular Dynamics Simulations. Biophysical Journal, 2002, 82, 3207-3213.	0.5	29
39	Electron crystallography of the scrapie prion protein complexed with heavy metals. Archives of Biochemistry and Biophysics, 2007, 467, 239-248.	3.0	28
40	AlphaFold2 predicts the inwardâ€facing conformation of the multidrug transporter LmrP. Proteins: Structure, Function and Bioinformatics, 2021, 89, 1226-1228.	2.6	27
41	Domain-interface dynamics of CFTR revealed by stabilizing nanobodies. Nature Communications, 2019, 10, 2636.	12.8	24
42	Analysis of the sequence and structural features of the leftâ€handed Î²â€helical fold. Proteins: Structure, Function and Bioinformatics, 2008, 73, 150-160.	2.6	17
43	Modulation of the Erwinia ligand-gated ion channel (ELIC) and the 5-HT3 receptor via a common vestibule site. ELife, 2020, 9, .	6.0	16
44	A topological switch in CFTR modulates channel activity and sensitivity to unfolding. Nature Chemical Biology, 2021, 17, 989-997.	8.0	13
45	Site-Directed Mutagenesis Demonstrates the Plasticity of the Î² Helix: Implications for the Structure of the Misfolded Prion Protein. Structure, 2009, 17, 1014-1023.	3.3	8
46	Nitrogen catabolite repressible GAP1 promoter, a new tool for efficient recombinant protein production in S. cerevisiae. Microbial Cell Factories, 2013, 12, 129.	4.0	7
47	Prion Protein Paralog Doppel Protein Interacts with Alpha-2-Macroglobulin: A Plausible Mechanism for Doppel-Mediated Neurodegeneration. PLoS ONE, 2009, 4, e5968.	2.5	7
48	A 50-Ã... Separation of the Integrin Î±vÎ²3 Extracellular Domain C Termini Reveals an Intermediate Activation State. Journal of Biological Chemistry, 2004, 279, 54567-54572.	3.4	5
49	Lipids Can Make Them Stick Together. Trends in Biochemical Sciences, 2017, 42, 329-330.	7.5	4
50	LmrP from Lactoccoccus lactis: a tractable model to understand secondary multidrug transport in MFS. Research in Microbiology, 2018, 169, 468-477.	2.1	3
51	Lipid-Protein Interactions: are in Vitro and in Vivo Studies Contradictory Or Complementary?. Biophysical Journal, 2011, 100, 345a.	0.5	0