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	AlphaFold2 predicts the inwardâ€facing conformation of the multidrug transporter LmrP. Proteins: Structure, Function and Bioinformatics, 2021, 89, 1226-1228.	2.6	27
2	A topological switch in CFTR modulates channel activity and sensitivity to unfolding. Nature Chemical Biology, 2021, 17, 989-997.	8.0	13
3	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
4	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
5	A lipid site shapes the agonist response of a pentameric ligand-gated ion channel. Nature Chemical Biology, 2019, 15, 1156-1164.	8.0	43
6	Domain-interface dynamics of CFTR revealed by stabilizing nanobodies. Nature Communications, 2019, 10, 2636.	12.8	24
7	LmrP from Lactoccoccus lactis: a tractable model to understand secondary multidrug transport in MFS. Research in Microbiology, 2018, 169, 468-477.	2.1	3
8	Lipids Can Make Them Stick Together. Trends in Biochemical Sciences, 2017, 42, 329-330.	7.5	4
9	Ligand chain length drives activation of lipid G protein-coupled receptors. Scientific Reports, 2017, 7, 2020.	3.3	40
10	Lipids modulate the conformational dynamics of a secondary multidrug transporter. Nature Structural and Molecular Biology, 2016, 23, 744-751.	8.2	111
11	Allosteric regulation of G proteinâ€“coupled receptor activity by phospholipids. Nature Chemical Biology, 2016, 12, 35-39.	8.0	251
12	Phosphatidylethanolamine Is a Key Regulator of Membrane Fluidity in Eukaryotic Cells. Journal of Biological Chemistry, 2016, 291, 3658-3667.	3.4	261
13	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
14	Selective Targeting of TGF-Î² Activation to Treat Fibroinflammatory Airway Disease. Science Translational Medicine, 2014, 6, 241ra79.	12.4	79
15	Protonation drives the conformational switch in the multidrug transporter LmrP. Nature Chemical Biology, 2014, 10, 149-155.	8.0	68
16	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
17	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
18	Mechanism of N-terminal modulation of activity at the melanocortin-4 receptor GPCR. Nature Chemical Biology, 2012, 8, 725-730.	8.0	59

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19	Lipid-Protein Interactions: are in Vitro and in Vivo Studies Contradictory Or Complementary?. Biophysical Journal, 2011, 100, 345a.	0.5	0
20	Identification of Specific Lipid-binding Sites in Integral Membrane Proteins. Journal of Biological Chemistry, 2010, 285, 10519-10526.	3.4	33
21	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
22	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
23	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
24	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
25	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
26	Interactions between Phosphatidylethanolamine Headgroup and LmrP, a Multidrug Transporter. Journal of Biological Chemistry, 2008, 283, 9369-9376.	3.4	66
27	Electron crystallography of the scrapie prion protein complexed with heavy metals. Archives of Biochemistry and Biophysics, 2007, 467, 239-248.	3.0	28
28	Glycineâ€“alanine repeats impair proper substrate unfolding by the proteasome. EMBO Journal, 2006, 25, 1720-1729.	7.8	73
29	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
30	An Activation Switch in the Rhodopsin Family of G Protein-coupled Receptors. Journal of Biological Chemistry, 2005, 280, 17135-17141.	3.4	106
31	Obesity-associated mutations in the melanocortin 4 receptor provide novel insights into its function. Peptides, 2005, 26, 1909-1919.	2.4	97
32	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
33	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
34	Prions: so many fibers, so little infectivity. Trends in Biochemical Sciences, 2004, 29, 162-165.	7.5	32
35	Ser and Thr Residues Modulate the Conformation of Pro-Kinked Transmembrane Î±-Helices. Biophysical Journal, 2004, 86, 105-115.	0.5	87
36	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

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37	Glycoprotein hormone receptors: determinants in leucine-rich repeats responsible for ligand specificity. EMBO Journal, 2003, 22, 2692-2703.	7.8	184
38	Molecular Genetics of Human Obesityâ€Associated MC4R Mutations. Annals of the New York Academy of Sciences, 2003, 994, 49-57.	3.8	102
39	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
40	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
41	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
42	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
43	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
44	The TXP Motif in the Second Transmembrane Helix of CCR5. Journal of Biological Chemistry, 2001, 276, 13217-13225.	3.4	118
45	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
46	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
47	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
48	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
49	Primary Autosomal Recessive Microcephaly: Homozygosity Mapping of MCPH4 to Chromosome 15. American Journal of Human Genetics, 1999, 65, 1465-1469.	6.2	116
50	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
51	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