

Torsten Schäferneberg

List of Publications by Year in descending order

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97
papers

5,766
citations

81900

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91884

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all docs

99
docs citations

99
times ranked

6797
citing authors

#	ARTICLE	IF	CITATIONS
1	THE CONCISE GUIDE TO PHARMACOLOGY 2019/20: G protein-coupled receptors. British Journal of Pharmacology, 2019, 176, S21-S141.	5.4	519
2	International Union of Basic and Clinical Pharmacology. XCIV. Adhesion G Protein-Coupled Receptors. Pharmacological Reviews, 2015, 67, 338-367.	16.0	392
3	THE CONCISE GUIDE TO PHARMACOLOGY 2021/22: G protein-coupled receptors. British Journal of Pharmacology, 2021, 178, S27-S156.	5.4	337
4	Mutant G-protein-coupled receptors as a cause of human diseases. , 2004, 104, 173-206.		281
5	FUNCTIONAL AND STRUCTURAL COMPLEXITY OF SIGNAL TRANSDUCTION VIA G-PROTEIN-COUPLED RECEPTORS. Annual Review of Neuroscience, 1997, 20, 399-427.	10.7	279
6	A Tethered Agonist within the Ectodomain Activates the Adhesion G Protein-Coupled Receptors GPR126 and GPR133. Cell Reports, 2014, 9, 2018-2026.	6.4	246
7	The Adhesion GPCR GPR126 Has Distinct, Domain-Dependent Functions in Schwann Cell Development Mediated by Interaction with Laminin-211. Neuron, 2015, 85, 755-769.	8.1	224
8	Gpr126 Functions in Schwann Cells to Control Differentiation and Myelination via G-Protein Activation. Journal of Neuroscience, 2013, 33, 17976-17985.	3.6	159
9	Update of P2Y receptor pharmacology: IUPHAR Review 27. British Journal of Pharmacology, 2020, 177, 2413-2433.	5.4	151
10	The GPS Motif Is a Molecular Switch for Bimodal Activities of Adhesion Class G Protein-Coupled Receptors. Cell Reports, 2012, 2, 321-331.	6.4	123
11	Generation and phenotype of mice harboring a nonsense mutation in the V2 vasopressin receptor gene. Journal of Clinical Investigation, 2000, 106, 1361-1371.	8.2	106
12	The constitutive activity of the adhesion GPCR GPR114/ADGRG5 is mediated by its tethered agonist. FASEB Journal, 2016, 30, 666-673.	0.5	105
13	Identification of the tethered peptide agonist of the adhesion G protein-coupled receptor GPR64/ADGRG2. Biochemical and Biophysical Research Communications, 2015, 464, 743-747.	2.1	101
14	Cell Adhesion Receptor GPR133 Couples to Gs Protein. Journal of Biological Chemistry, 2011, 286, 41912-41916.	3.4	94
15	Severe Congenital Hyperthyroidism Caused by a Germ-Line Mutation in the Extracellular Portion of the Thyrotropin Receptor1. Journal of Clinical Endocrinology and Metabolism, 1998, 83, 1431-1436.	3.6	92
16	Aminoglycoside-mediated rescue of a disease-causing nonsense mutation in the V2 vasopressin receptor gene in vitro and in vivo. Human Molecular Genetics, 2004, 13, 893-903.	2.9	91
17	Activation of Adhesion G Protein-coupled Receptors. Journal of Biological Chemistry, 2017, 292, 4383-4394.	3.4	87
18	Metabolites of lactic acid bacteria present in fermented foods are highly potent agonists of human hydroxycarboxylic acid receptor 3. PLoS Genetics, 2019, 15, e1008145.	3.5	85

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19	A conserved tyrosine residue (Y601) in transmembrane domain 5 of the human thyrotropin receptor serves as a molecular switch to determine G-protein coupling. <i>FASEB Journal</i> , 1998, 12, 1461-1471.	0.5	81
20	Oriented Cell Division in the <i>C. elegans</i> Embryo Is Coordinated by G-Protein Signaling Dependent on the Adhesion GPCR LAT-1. <i>PLoS Genetics</i> , 2015, 11, e1005624.	3.5	80
21	Calcium-sensing receptor-mediated NLRP3 inflammasome response to calciprotein particles drives inflammation in rheumatoid arthritis. <i>Nature Communications</i> , 2020, 11, 4243.	12.8	79
22	V2 vasopressin receptor dysfunction in nephrogenic diabetes insipidus caused by different molecular mechanisms. <i>Human Mutation</i> , 1998, 12, 196-205.	2.5	78
23	Genetic Influences on Brain Gene Expression in Rats Selected for Tameness and Aggression. <i>Genetics</i> , 2014, 198, 1277-1290.	2.9	78
24	Maternal paraben exposure triggers childhood overweight development. <i>Nature Communications</i> , 2020, 11, 561.	12.8	77
25	Deletions in the Third Intracellular Loop of the Thyrotropin Receptor. <i>Journal of Biological Chemistry</i> , 1998, 273, 7900-7905.	3.4	68
26	Kiwi genome provides insights into evolution of a nocturnal lifestyle. <i>Genome Biology</i> , 2015, 16, 147.	8.8	68
27	Mutationally Induced Disulfide Bond Formation within the Third Extracellular Loop Causes Melanocortin 4 Receptor Inactivation in Patients with Obesity. <i>Journal of Biological Chemistry</i> , 2003, 278, 48666-48673.	3.4	67
28	The Activation Mechanism of Glycoprotein Hormone Receptors with Implications in the Cause and Therapy of Endocrine Diseases. <i>Journal of Biological Chemistry</i> , 2016, 291, 508-520.	3.4	63
29	Mutations in G Protein-Coupled Receptors: Mechanisms, Pathophysiology and Potential Therapeutic Approaches. <i>Pharmacological Reviews</i> , 2021, 73, 89-119.	16.0	60
30	Adhesion GPCRs in Regulating Immune Responses and Inflammation. <i>Advances in Immunology</i> , 2017, 136, 163-201.	2.2	59
31	Structure and allosteric regulation of eukaryotic 6-phosphofructokinases. <i>Biological Chemistry</i> , 2013, 394, 977-993.	2.5	58
32	Structural basis for the tethered peptide activation of adhesion GPCRs. <i>Nature</i> , 2022, 604, 763-770.	27.8	58
33	Aminoglycoside Pretreatment Partially Restores the Function of Truncated V2 Vasopressin Receptors Found in Patients with Nephrogenic Diabetes Insipidus. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2002, 87, 5247-5257.	3.6	57
34	Characterization and functional study of a cluster of four highly conserved orphan adhesion GPCR in mouse. <i>Developmental Dynamics</i> , 2012, 241, 1591-1602.	1.8	52
35	Learning from the past: evolution of GPCR functions. <i>Trends in Pharmacological Sciences</i> , 2007, 28, 117-121.	8.7	51
36	The G Protein-coupled Receptor P2Y14 Influences Insulin Release and Smooth Muscle Function in Mice. <i>Journal of Biological Chemistry</i> , 2014, 289, 23353-23366.	3.4	49

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37	Adhesion G Protein-Coupled Receptors: From In Vitro Pharmacology to In Vivo Mechanisms. <i>Molecular Pharmacology</i> , 2015, 88, 617-623.	2.3	48
38	Reduction in corpora lutea number in obese melanocortin-4-receptor-deficient mice. <i>Reproductive Biology and Endocrinology</i> , 2009, 7, 24.	3.3	46
39	Tethered Agonism: A Common Activation Mechanism of Adhesion GPCRs. <i>Handbook of Experimental Pharmacology</i> , 2016, 234, 111-125.	1.8	46
40	Involvement of the Adhesion GPCRs Latrophilins in the Regulation of Insulin Release. <i>Cell Reports</i> , 2019, 26, 1573-1584.e5.	6.4	46
41	Structural Requirements for Mutational Lutropin/Choriogonadotropin Receptor Activation. <i>Journal of Biological Chemistry</i> , 2002, 277, 47748-47755.	3.4	44
42	Progress in demystification of adhesion G protein-coupled receptors. <i>Biological Chemistry</i> , 2013, 394, 937-950.	2.5	41
43	Behavioral and molecular effects of prenatal continuous light exposure in the adult rat. <i>Brain Research</i> , 2016, 1650, 51-59.	2.2	40
44	Structural and functional evolution of the P2Y12-like receptor group. <i>Purinergic Signalling</i> , 2007, 3, 255-268.	2.2	37
45	Congenital Hypothyroidism Caused by Mutations in the Thyrotropin-Receptor Gene. <i>New England Journal of Medicine</i> , 1997, 336, 1390-1391.	27.0	35
46	P2Y Receptors in Immune Response and Inflammation. <i>Advances in Immunology</i> , 2017, 136, 85-121.	2.2	34
47	Identification of Determinants Required for Agonistic and Inverse Agonistic Ligand Properties at the ADP Receptor P2Y ₁₂ . <i>Molecular Pharmacology</i> , 2013, 83, 256-266.	2.3	33
48	Prostaglandin E2 glyceryl ester is an endogenous agonist of the nucleotide receptor P2Y6. <i>Scientific Reports</i> , 2017, 7, 2380.	3.3	29
49	The G protein-coupled receptor GPR34 – The past 20 years of a grownup. , 2018, 189, 71-88.		29
50	Revisiting the classification of adhesion GPCRs. <i>Annals of the New York Academy of Sciences</i> , 2019, 1456, 80-95.	3.8	27
51	Genetic basis of functional variability in adhesion G protein-coupled receptors. <i>Scientific Reports</i> , 2019, 9, 11036.	3.3	27
52	The repertoire of Adhesion G protein-coupled receptors in adipocytes and their functional relevance. <i>International Journal of Obesity</i> , 2020, 44, 2124-2136.	3.4	26
53	The Rise and Fall of the Chemoattractant Receptor GPR33. <i>Journal of Biological Chemistry</i> , 2005, 280, 31068-31075.	3.4	25
54	Functional Linkage of Adenine Nucleotide Binding Sites in Mammalian Muscle 6-Phosphofructokinase. <i>Journal of Biological Chemistry</i> , 2012, 287, 17546-17553.	3.4	25

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55	Evolutionary Conservation of 3-Iodothyronamine as an Agonist at the Trace Amine-Associated Receptor 1. <i>European Thyroid Journal</i> , 2015, 4, 9-20.	2.4	23
56	Functional impact of intramolecular cleavage and dissociation of adhesion G protein-coupled receptor GPR133 (ADGRD1) on canonical signaling. <i>Journal of Biological Chemistry</i> , 2021, 296, 100798.	3.4	23
57	Crystal structure of human platelet phosphofructokinase-1 locked in an activated conformation. <i>Biochemical Journal</i> , 2015, 469, 421-432.	3.7	22
58	Orphan GPR116 mediates the insulin sensitizing effects of the hepatokine FNDC4 in adipose tissue. <i>Nature Communications</i> , 2021, 12, 2999.	12.8	22
59	Using ortholog sequence data to predict the functional relevance of mutations in G-protein-coupled receptors. <i>FASEB Journal</i> , 2012, 26, 3273-3281.	0.5	21
60	What are they waiting for? Tethered agonism in G protein-coupled receptors. <i>Pharmacological Research</i> , 2016, 108, 9-15.	7.1	21
61	Dendritic Cells Regulate GPR34 through Mitogenic Signals and Undergo Apoptosis in Its Absence. <i>Journal of Immunology</i> , 2016, 196, 2504-2513.	0.8	20
62	In vivo identification of small molecules mediating Gpr126/Adgrg6 signaling during Schwann cell development. <i>Annals of the New York Academy of Sciences</i> , 2019, 1456, 44-63.	3.8	19
63	Tethered agonists: a new mechanism underlying adhesion G protein-coupled receptor activation. <i>Journal of Receptor and Signal Transduction Research</i> , 2015, 35, 220-223.	2.5	17
64	The Relevance of Genomic Signatures at Adhesion GPCR Loci in Humans. <i>Handbook of Experimental Pharmacology</i> , 2016, 234, 179-217.	1.8	15
65	The intramolecular agonist is obligate for activation of glycoprotein hormone receptors. <i>FASEB Journal</i> , 2020, 34, 11243-11256.	0.5	15
66	Natural biased signaling of hydroxycarboxylic acid receptor 3 and G protein-coupled receptor 84. <i>Cell Communication and Signaling</i> , 2020, 18, 31.	6.5	15
67	Ecological Specialization and Evolutionary Reticulation in Extant Hyaenidae. <i>Molecular Biology and Evolution</i> , 2021, 38, 3884-3897.	8.9	15
68	Altered hepatic lipid metabolism in mice lacking both the melanocortin type 4 receptor and low density lipoprotein receptor. <i>PLoS ONE</i> , 2017, 12, e0172000.	2.5	15
69	Developmental exposure to ethanol increases the neuronal vulnerability to oxygen-glucose deprivation in cerebellar granule cell cultures. <i>Brain Research</i> , 2015, 1614, 1-13.	2.2	14
70	Functional relevance of naturally occurring mutations in adhesion G protein-coupled receptor ADGRD1 (GPR133). <i>BMC Genomics</i> , 2016, 17, 609.	2.8	14
71	Reduced lipolysis in lipoma phenocopies lipid accumulation in obesity. <i>International Journal of Obesity</i> , 2021, 45, 565-576.	3.4	14
72	Functional characterization of novel loss-of-function mutations in the vasopressin type 2 receptor gene causing nephrogenic diabetes insipidus. <i>Nephrology Dialysis Transplantation</i> , 2012, 27, 1521-1528.	0.7	13

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73	Adaptation to nocturnality – learning from avian genomes. <i>BioEssays</i> , 2016, 38, 694-703.	2.5	13
74	Expression profiling of the adhesion G protein-coupled receptor GPR133 (ADGRD1) in glioma subtypes. <i>Neuro-Oncology Advances</i> , 2020, 2, vdaa053.	0.7	13
75	Involvement of the chemokine-like receptor GPR33 in innate immunity. <i>Biochemical and Biophysical Research Communications</i> , 2010, 396, 272-277.	2.1	11
76	Signatures of Natural Selection at the FTO (Fat Mass and Obesity Associated) Locus in Human Populations. <i>PLoS ONE</i> , 2015, 10, e0117093.	2.5	11
77	Effects of exposure to single and multiple parabens on asthma development in an experimental mouse model and a prospective cohort study. <i>Science of the Total Environment</i> , 2022, 814, 152676.	8.0	11
78	Genomic basis for skin phenotype and cold adaptation in the extinct Steller’s sea cow. <i>Science Advances</i> , 2022, 8, eabl6496.	10.3	9
79	Latrophilins and Teneurins in Invertebrates: No Love for Each Other?. <i>Frontiers in Neuroscience</i> , 2019, 13, 154.	2.8	8
80	Phenotype-tissue expression and exploration (PTEE) resource facilitates the choice of tissue for RNA-seq-based clinical genetics studies. <i>BMC Genomics</i> , 2021, 22, 802.	2.8	8
81	Latrophilin-1 drives neuron morphogenesis and shapes chemo- and mechanosensation-dependent behavior in <i>C. elegans</i> via a trans function. <i>Biochemical and Biophysical Research Communications</i> , 2022, 589, 152-158.	2.1	8
82	Deciphering and modulating G protein signalling in <i>C. elegans</i> using the DREADD technology. <i>Scientific Reports</i> , 2016, 6, 28901.	3.3	7
83	Exploring G Protein-Coupled Receptor Signaling in Primary Pancreatic Islets. <i>Biological Procedures Online</i> , 2020, 22, 4.	2.9	7
84	The Evolutionary History of Vertebrate Adhesion GPCRs and Its Implication on Their Classification. <i>International Journal of Molecular Sciences</i> , 2021, 22, 11803.	4.1	7
85	Severe Atherosclerosis and Hypercholesterolemia in Mice Lacking Both the Melanocortin Type 4 Receptor and Low Density Lipoprotein Receptor. <i>PLoS ONE</i> , 2016, 11, e0167888.	2.5	6
86	Functional characterization of AVPR2 mutants found in Turkish patients with nephrogenic diabetes insipidus. <i>Endocrine Connections</i> , 2018, 7, 56-64.	1.9	6
87	The relevance of adhesion G protein-coupled receptors in metabolic functions. <i>Biological Chemistry</i> , 2022, 403, 195-209.	2.5	6
88	How to wake a giant. <i>Oncotarget</i> , 2015, 6, 23038-23039.	1.8	6
89	Crystallization and preliminary crystallographic analysis of human muscle phosphofructokinase, the main regulator of glycolysis. <i>Acta Crystallographica Section F, Structural Biology Communications</i> , 2014, 70, 578-582.	0.8	5
90	Performance of a SARS CoV-2 antibody ELISA based on simultaneous measurement of antibodies against the viral nucleoprotein and receptor-binding domain. <i>European Journal of Clinical Microbiology and Infectious Diseases</i> , 2021, 40, 2645-2649.	2.9	5

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91	Adaptive Gene Regulation in the Striatum of RGS9-Deficient Mice. PLoS ONE, 2014, 9, e92605.	2.5	3
92	Mapping the Binding Sites of UDP and Prostaglandin E2 Glycerol Ester in the Nucleotide Receptor P2Y ₆ . ChemMedChem, 2022, 17, .	3.2	3
93	NanoBRET in <i>C. elegans</i> illuminates functional receptor interactions in real time. BMC Molecular and Cell Biology, 2022, 23, 8.	2.0	2
94	Molecular basis and clinical features of nephrogenic diabetes insipidus. Expert Review of Endocrinology and Metabolism, 2006, 1, 727-741.	2.4	0
95	Copy number variations in "classical" obesity candidate genes are not frequently associated with severe early-onset obesity in children. Journal of Pediatric Endocrinology and Metabolism, 2017, 30, 507-515.	0.9	0
96	Open housing drives the expression of immune response genes in the nasal mucosa, but not the olfactory bulb. PLoS ONE, 2017, 12, e0187192.	2.5	0
97	Evaluating the feasibility of Cas9 overexpression in 3T3-L1 cells for generation of genetic knock-out adipocyte cell lines. Adipocyte, 2021, 10, 631-645.	2.8	0