Martin J Lohse

List of Publications by Year
in descending order

350 papers	30,950 citations	3731 89 h-index	5829 161 g-index
363 all docs	363 docs citations	363 times ranked	20788 citing authors

#	Article	IF	Citations
1	Î²-Arrestin: a Protein that Regulates Î²-adrenergic Receptor Function. Science, 1990, 248, 1547-1550.	12.6	1,130
2	Altered expression of beta-adrenergic receptor kinase and beta 1-adrenergic receptors in the failing human heart.. Circulation, 1993, 87, 454-463.	1.6	835
3	Progressive hypertrophy and heart failure in Î² ₁ -adrenergic receptor transgenic mice. Proceedings of the National Academy of Sciences of the United States of America, 1999, 96, 7059-7064.	7.1	719
4	What Is the Role of Î²-Adrenergic Signaling in Heart Failure?. Circulation Research, 2003, 93, 896-906.	4.5	687
5	Novel Single Chain cAMP Sensors for Receptor-induced Signal Propagation. Journal of Biological Chemistry, 2004, 279, 37215-37218.	3.4	630
6	The genomic clone G-21 which resembles a Î²-adrenergic receptor sequence encodes the 5-HT1A receptor. Nature, 1988, 335, 358-360.	27.8	611
7	Î² ₂ -Adrenergic Receptor Redistribution in Heart Failure Changes cAMP Compartmentation. Science, 2010, 327, 1653-1657.	12.6	505
8	G Proteinâ€"Coupled Receptor Oligomerization Revisited: Functional and Pharmacological Perspectives. Pharmacological Reviews, 2014, 66, 413-434.	16.0	497
9	A FlAsH-based FRET approach to determine G proteinâ€"coupled receptor activation in living cells. Nature Methods, 2005, 2, 171-176.	19.0	471
10	Persistent cAMP-Signals Triggered by Internalized G-Proteinâ€"Coupled Receptors. PLoS Biology, 2009, 7, e1000172.	5.6	471
11	Measurement of the millisecond activation switch of G proteinâ€"coupled receptors in living cells. Nature Biotechnology, 2003, 21, 807-812.	17.5	400
12	Single-molecule analysis of fluorescently labeled G-proteinâ€"coupled receptors reveals complexes with distinct dynamics and organization. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 743-748.	7.1	394
13	Molecular mechanisms of membrane receptor desensitization. Biochimica Et Biophysica Acta - Molecular Cell Research, 1993, 1179, 171-188.	4.1	393
14	Neural cell adhesion molecules influence second messenger systems. Neuron, 1989, 3, 13-20.	8.1	386
15	Gi protein activation in intact cells involves subunit rearrangement rather than dissociation. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 16077-16082.	7.1	377
16	8-Cyclopentyl-1,3-dipropylxanthine (DPCPX) ? a selective high affinity antagonist radioligand for A1 adenosine receptors. Naunyn-Schmiedeberg's Archives of Pharmacology, 1987, 336, 204-210.	3.0	367
17	Constitutive Activation of PKA Catalytic Subunit in Adrenal Cushing's Syndrome. New England Journal of Medicine, 2014, 370, 1019-1028.	27.0	355
18	Protein kinase C switches the Raf kinase inhibitor from Raf-1 to GRK-2. Nature, 2003, 426, 574-579.	27.8	353

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19	Building a new conceptual framework for receptor heteromers. Nature Chemical Biology, 2009, 5, 131-134.	8.0	349
20	Fluorescence Resonance Energy Transferâ€“Based Analysis of cAMP Dynamics in Live Neonatal Rat Cardiac Myocytes Reveals Distinct Functions of Compartmentalized Phosphodiesterases. Circulation Research, 2004, 95, 67-75.	4.5	341
21	Cyclic AMP Imaging in Adult Cardiac Myocytes Reveals Far-Reaching Î² 1 -Adrenergic but Locally Confined Î² 2 -Adrenergic Receptorâ€“Mediated Signaling. Circulation Research, 2006, 99, 1084-1091.	4.5	321
22	Direct evidence for a Î²1-adrenergic receptorâ€“directed autoimmune attack as a cause of idiopathic dilated cardiomyopathy. Journal of Clinical Investigation, 2004, 113, 1419-1429.	8.2	300
23	Widespread Receptivity to Neuropeptide PDF throughout the Neuronal Circadian Clock Network of Drosophila Revealed by Real-Time Cyclic AMP Imaging. Neuron, 2008, 58, 223-237.	8.1	295
24	Phosducin is a protein kinase A-regulated G-protein regulator. Nature, 1992, 358, 73-76.	27.8	289
25	Sequestration and recycling of beta 2-adrenergic receptors permit receptor resensitization. Molecular Pharmacology, 1995, 47, 666-76.	2.3	287
26	Expression of beta-arrestins and beta-adrenergic receptor kinases in the failing human heart.. Circulation Research, 1994, 74, 206-213.	4.5	284
27	Comparative pharmacology of human ï¿½-adrenergic receptor subtypes?characterization of stably transfected receptors in CHO cells. Naunyn-Schmiedeberg's Archives of Pharmacology, 2004, 369, 151-159.	3.0	279
28	Fluorescence/Bioluminescence Resonance Energy Transfer Techniques to Study G-Protein-Coupled Receptor Activation and Signaling. Pharmacological Reviews, 2012, 64, 299-336.	16.0	279
29	International Union of Basic and Clinical Pharmacology. LXVII. Recommendations for the Recognition and Nomenclature of G Protein-Coupled Receptor Heteromultimers. Pharmacological Reviews, 2007, 59, 5-13.	16.0	274
30	Single-molecule imaging reveals receptorâ€“G protein interactions at cell surface hot spots. Nature, 2017, 550, 543-547.	27.8	258
31	Sweet Taste Receptor Expressed in Pancreatic Î²-Cells Activates the Calcium and Cyclic AMP Signaling Systems and Stimulates Insulin Secretion. PLoS ONE, 2009, 4, e5106.	2.5	254
32	Conformational cross-talk between Î±2A-adrenergic and Î¼-opioid receptors controls cell signaling. Nature Chemical Biology, 2008, 4, 126-131.	8.0	248
33	Autoantibodies Activating Human Î² ₁ -Adrenergic Receptors Are Associated With Reduced Cardiac Function in Chronic Heart Failure. Circulation, 1999, 99, 649-654.	1.6	240
34	Comparative rates of desensitization of beta-adrenergic receptors by the beta-adrenergic receptor kinase and the cyclic AMP-dependent protein kinase.. Proceedings of the National Academy of Sciences of the United States of America, 1991, 88, 6201-6204.	7.1	227
35	Signaling by internalized G-protein-coupled receptors. Trends in Pharmacological Sciences, 2010, 31, 221-228.	8.7	225
36	Crosstalk between Sentinel and Helper Macrophages Permits Neutrophil Migration into Infected Uroepithelium. Cell, 2014, 156, 456-468.	28.9	203

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37	Fluorescent labeling of tetracysteine-tagged proteins in intact cells. Nature Protocols, 2010, 5, 1666-1677.	12.0	192
38	Direct evidence for a Î²1-adrenergic receptorâ€“directed autoimmune attack as a cause of idiopathic dilated cardiomyopathy. Journal of Clinical Investigation, 2004, 113, 1419-1429.	8.2	192
39	FRET measurements of intracellular cAMP concentrations and cAMP analog permeability in intact cells. Nature Protocols, 2011, 6, 427-438.	12.0	191
40	Î²-Arrestin biosensors reveal a rapid, receptor-dependent activation/deactivation cycle. Nature, 2016, 531, 661-664.	27.8	190
41	A new type of ERK1/2 autophosphorylation causes cardiac hypertrophy. Nature Medicine, 2009, 15, 75-83.	30.7	189
42	Dynamics of receptor/G protein coupling in living cells. EMBO Journal, 2005, 24, 4106-4114.	7.8	188
43	Involvement of Asn-293 in stereospecific agonist recognition and in activation of the beta 2-adrenergic receptor.. Proceedings of the National Academy of Sciences of the United States of America, 1996, 93, 9276-9281.	7.1	187
44	Analysis of receptor oligomerization by FRAP microscopy. Nature Methods, 2009, 6, 225-230.	19.0	187
45	Inhibition of Na ⁺ -H ⁺ Exchange Prevents Hypertrophy, Fibrosis, and Heart Failure in Î² ₁ -Adrenergic Receptor Transgenic Mice. Circulation Research, 2002, 90, 814-819.	4.5	186
46	Interplay of Ca2+ and cAMP Signaling in the Insulin-secreting MIN6 Î²-Cell Line. Journal of Biological Chemistry, 2005, 280, 31294-31302.	3.4	183
47	Feedback Inhibition of Catecholamine Release by Two Different Î± 2 -Adrenoceptor Subtypes Prevents Progression of Heart Failure. Circulation, 2002, 106, 2491-2496.	1.6	179
48	Desensitization of the isolated .beta.2-adrenergic receptor by .beta.-adrenergic receptor kinase, cAMP-dependent protein kinase, and protein kinase C occurs via distinct molecular mechanisms. Biochemistry, 1992, 31, 3193-3197.	2.5	178
49	Fluorescent sensors for rapid monitoring of intracellular cGMP. Nature Methods, 2006, 3, 23-25.	19.0	175
50	Turn-on switch in parathyroid hormone receptor by a two-step parathyroid hormone binding mechanism. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 16084-16089.	7.1	168
51	Protein kinase cross-talk: membrane targeting of the beta-adrenergic receptor kinase by protein kinase C.. Proceedings of the National Academy of Sciences of the United States of America, 1996, 93, 2105-2109.	7.1	167
52	Overexpression of beta-arrestin and beta-adrenergic receptor kinase augment desensitization of beta 2-adrenergic receptors. Journal of Biological Chemistry, 1993, 268, 3201-8.	3.4	166
53	Î²-Arrestin Binding to the Î²2-Adrenergic Receptor Requires Both Receptor Phosphorylation and Receptor Activation. Journal of Biological Chemistry, 2005, 280, 9528-9535.	3.4	157
54	Xanthine derivatives as antagonists at A1 and A2 adenosine receptors. Naunyn-Schmiedeberg's Archives of Pharmacology, 1985, 330, 212-221.	3.0	148

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55	Differential Control of Adrenal and Sympathetic Catecholamine Release by Î±2-Adrenoceptor Subtypes. Molecular Endocrinology, 2003, 17, 1640-1646.	3.7	147
56	Dimerization in GPCR mobility and signaling. Current Opinion in Pharmacology, 2010, 10, 53-58.	3.5	145
57	Dobutamine-Stress Magnetic Resonance Microimaging in Mice. Circulation Research, 2001, 88, 563-569.	4.5	143
58	G Protein Activation without Subunit Dissociation Depends on a GÎ±i-specific Region*. Journal of Biological Chemistry, 2005, 280, 24584-24590.	3.4	140
59	Internalized TSH receptors en route to the TGN induce local Gs-protein signaling and gene transcription. Nature Communications, 2017, 8, 443.	12.8	140
60	Molecular basis of inverse agonism in a G proteinâ€"coupled receptor. Nature Chemical Biology, 2005, 1, 25-28.	8.0	137
61	Phosphorylation-independent inhibition of parathyroid hormone receptor signaling by G protein-coupled receptor kinases. Proceedings of the National Academy of Sciences of the United States of America, 1999, 96, 5476-5481.	7.1	129
62	A constitutively active mutant beta 2-adrenergic receptor is constitutively desensitized and phosphorylated.. Proceedings of the National Academy of Sciences of the United States of America, 1994, 91, 2699-2702.	7.1	127
63	Real-time optical recording of Î²1-adrenergic receptor activation reveals supersensitivity of the Arg389 variant to carvedilol. Journal of Clinical Investigation, 2007, 117, 229-235.	8.2	126
64	Optical Mapping of cAMP Signaling at the Nanometer Scale. Cell, 2020, 182, 1519-1530.e17.	28.9	125
65	2-Chloro-N6-[3H]cyclopentyladenosine ([3HCCPA) ?a high affinity agonist radioligand for A1 adenosine receptors. Naunyn-Schmiedeberg's Archives of Pharmacology, 1989, 340, 679-683.	3.0	124
66	Stimulating autoantibodies directed against the cardiac Î²1-adrenergic receptor predict increased mortality in idiopathic cardiomyopathy. American Heart Journal, 2006, 152, 697-704.	2.7	124
67	Real-time Monitoring of the PDE2 Activity of Live Cells. Journal of Biological Chemistry, 2005, 280, 1716-1719.	3.4	122
68	2-Chloro-N6-cyclopentyladenosine: a highly selective agonist at A1 adenosine receptors. Naunyn-Schmiedeberg's Archives of Pharmacology, 1988, 337, 687-9.	3.0	120
69	Optical techniques to analyze real-time activation and signaling of G-protein-coupled receptors. Trends in Pharmacological Sciences, 2008, 29, 159-165.	8.7	119
70	Inhibition of beta-adrenergic receptor kinase prevents rapid homologous desensitization of beta 2-adrenergic receptors.. Proceedings of the National Academy of Sciences of the United States of America, 1989, 86, 3011-3015.	7.1	117
71	Cardiac hypertrophy: Targeting Raf/MEK/ERK1/2-signaling. International Journal of Biochemistry and Cell Biology, 2009, 41, 2351-2355.	2.8	117
72	Ligand-induced Phosphorylation/Dephosphorylation of the Endogenous Bradykinin B2 Receptor from Human Fibroblasts. Journal of Biological Chemistry, 1996, 271, 32366-32374.	3.4	116

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73	GS Activation Is Time-limiting in Initiating Receptor-mediated Signaling. Journal of Biological Chemistry, 2006, 281, 33345-33351.	3.4	116
74	Determination of Onset of Sexual Maturation and Mating Behavior by Melanocortin Receptor 4 Polymorphisms. Current Biology, 2010, 20, 1729-1734.	3.9	116
75	Magnesium and the parathyroid. Current Opinion in Nephrology and Hypertension, 2002, 11, 403-410.	2.0	111
76	Ca ²⁺ Cycling and New Therapeutic Approaches for Heart Failure. Circulation, 2010, 121, 822-830.	1.6	111
77	Activation of Î²-Adrenergic Receptor Kinase During Myocardial Ischemia. Circulation Research, 1996, 79, 455-460.	4.5	107
78	Abolition of (-)-CGP 12177-evoked cardiostimulation in double ? 1 /? 2 -adrenoceptor knockout mice. Obligatory role of ? 1 -adrenoceptors for putative ? 4 -adrenoceptor pharmacology. Naunyn-Schmiedeberg's Archives of Pharmacology, 2001, 363, 87-93.	3.0	106
79	The transcriptional repressor Nab1 is a specific regulator of pathological cardiac hypertrophy. Nature Medicine, 2005, 11, 837-844.	30.7	105
80	Fluorescence Resonance Energy Transfer Analysis of Î±_{2a}-Adrenergic Receptor Activation Reveals Distinct Agonist-Specific Conformational Changes. Molecular Pharmacology, 2009, 75, 534-541.	2.3	103
81	Analysis of beta-adrenergic receptor mRNA levels in human ventricular biopsy specimens by quantitative polymerase chain reactions: Progressive reduction of beta1-adrenergic receptor mRNA in heart failure. Journal of the American College of Cardiology, 1996, 27, 146-154.	2.8	102
82	Differential Signaling of the Endogenous Agonists at the Î²2-Adrenergic Receptor. Journal of Biological Chemistry, 2010, 285, 36188-36198.	3.4	101
83	Kinetics of Gâ€proteinâ€coupled receptor signals in intact cells. British Journal of Pharmacology, 2008, 153, S125-32.	5.4	100
84	2-Alkynyl derivatives of adenosine and adenosine-5'-N-ethyluronamide as selective agonists at A2 adenosine receptors. Journal of Medicinal Chemistry, 1992, 35, 2363-2368.	6.4	98
85	A Role for Caspase-1 in Heart Failure. Circulation Research, 2007, 100, 645-653.	4.5	98
86	Internalization Determinants of the Parathyroid Hormone Receptor Differentially Regulate Î²-Arrestin/Receptor Association. Journal of Biological Chemistry, 2002, 277, 8121-8129.	3.4	97
87	Altered Calcium Handling Is Critically Involved in the Cardiotoxic Effects of Chronic Î²-Adrenergic Stimulation. Circulation, 2004, 109, 1154-1160.	1.6	97
88	Molecular Basis of Partial Agonism at the Neurotransmitter Î±2A-Adrenergic Receptor and Gi-protein Heterotrimer. Journal of Biological Chemistry, 2006, 281, 24506-24511.	3.4	97
89	Differential Distribution of Î²-Adrenergic Receptor Subtypes in Blood Vessels of Knockout Mice Lacking Î²1- or Î²2-Adrenergic Receptors. Molecular Pharmacology, 2001, 60, 955-962.	2.3	95
90	Differential Conformational Requirements for Activation of G Proteins and the Regulatory Proteins Arrestin and G Protein-coupled Receptor Kinase in the G Protein-coupled Receptor for Parathyroid Hormone (PTH)/PTH-related Protein. Journal of Biological Chemistry, 2001, 276, 33435-33443.	3.4	95

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91	Novel Somatic Mutations in the Catalytic Subunit of the Protein Kinase A as a Cause of Adrenal Cushing's Syndrome: A European Multicentric Study. Journal of Clinical Endocrinology and Metabolism, 2014, 99, E2093-E2100.	3.6	92
92	Cardiac myosin missense mutations cause dilated cardiomyopathy in mouse models and depress molecular motor function. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 14525-14530.	7.1	90
93	Phosducin inhibits receptor phosphorylation by the Î²-adrenergic receptor kinase in a PKA-regulated manner. FEBS Letters, 1994, 343, 120-124.	2.8	89
94	Monitoring of cAMP Synthesis and Degradation in Living Cells. Physiology, 2006, 21, 86-92.	3.1	89
95	Activation of Î±2B-Adrenoceptors Mediates the Cardiovascular Effects of Etomidate. Anesthesiology, 2003, 99, 889-895.	2.5	88
96	Modulation of beta1-adrenoceptor activity by domain-specific antibodies and heart failureâ€"associated autoantibodies. Journal of the American College of Cardiology, 2000, 36, 1280-1287.	2.8	87
97	A Novel Fluorescence Method for the Rapid Detection of Functional Î²1-Adrenergic Receptor Autoantibodies in Heart Failure. Journal of the American College of Cardiology, 2007, 50, 423-431.	2.8	86
98	Single-molecule analysis reveals agonist-specific dimer formation of Âµ-opioid receptors. Nature Chemical Biology, 2020, 16, 946-954.	8.0	86
99	A dileucine motif in the C terminus of the Â2-adrenergic receptor is involved in receptor internalization. Proceedings of the National Academy of Sciences of the United States of America, 1997, 94, 12285-12290.	7.1	85
100	Activation and Deactivation Kinetics of Î±2A- and Î±2C-Adrenergic Receptor-activated G Protein-activated Inwardly Rectifying K+ Channel Currents. Journal of Biological Chemistry, 2001, 276, 47512-47517.	3.4	85
101	Receptor-associated independent cAMP nanodomains mediate spatiotemporal specificity of GPCR signaling. Cell, 2022, 185, 1130-1142.e11.	28.9	85
102	Phosphorylation of GRK2 by Protein Kinase C Abolishes Its Inhibition by Calmodulin. Journal of Biological Chemistry, 2001, 276, 1911-1915.	3.4	84
103	Paradoxical Block of Parathormone Secretion Is Mediated by Increased Activity of GÎ± Subunits. Journal of Biological Chemistry, 2001, 276, 6763-6769.	3.4	83
104	Cytoplasmic cAMP concentrations in intact cardiac myocytes. American Journal of Physiology - Cell Physiology, 2008, 295, C414-C422.	4.6	83
105	Agonist-selective, Receptor-specific Interaction of Human P2Y Receptors with Î²-Arrestin-1 and -2. Journal of Biological Chemistry, 2008, 283, 30933-30941.	3.4	82
106	Sequential Inter- and Intrasubunit Rearrangements During Activation of Dimeric Metabotropic Glutamate Receptor 1. Science Signaling, 2012, 5, ra59.	3.6	82
107	Crosstalk between Galpha i- and Galpha q-coupled receptors is mediated by Gbeta gamma exchange. Proceedings of the National Academy of Sciences of the United States of America, 1999, 96, 10626-10631.	7.1	80
108	Activation of the A 3 adenosine receptor affects cell cycle progression and cell growth. Naunyn-Schmiedeberg's Archives of Pharmacology, 2000, 361, 225-234.	3.0	79

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109	FRET-based sensors for the human M1-, M3-, and M5-acetylcholine receptors. Bioorganic and Medicinal Chemistry, 2011, 19, 1048-1054.	3.0	79
110	Interference with ERK ^{Thr188} phosphorylation impairs pathological but not physiological cardiac hypertrophy. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 7440-7445.	7.1	79
111	Distinct pools of cAMP centre on different isoforms of adenylyl cyclase in pituitary-derived GH3B6 cells. Journal of Cell Science, 2010, 123, 95-106.	2.0	76
112	Role of Membrane Microdomains in Compartmentation of cAMP Signaling. PLoS ONE, 2014, 9, e95835.	2.5	75
113	GPCR-OKB: the G Protein Coupled Receptor Oligomer Knowledge Base. Bioinformatics, 2010, 26, 1804-1805.	4.1	74
114	Multimodal function of the sweet taste receptor expressed in pancreatic Î²-cells: generation of diverse patterns of intracellular signals by sweet agonists. Endocrine Journal, 2013, 60, 1191-1206.	1.6	74
115	Specific enhancement of beta-adrenergic receptor kinase activity by defined G-protein beta and gamma subunits.. Proceedings of the National Academy of Sciences of the United States of America, 1993, 90, 10439-10443.	7.1	73
116	Minireview: GPCR and G Proteins: Drug Efficacy and Activation in Live Cells. Molecular Endocrinology, 2009, 23, 590-599.	3.7	73
117	Persistent cAMP Signaling by Internalized LH Receptors in Ovarian Follicles. Endocrinology, 2016, 2016, 63-71.	2.8	73
118	Interaction of barbiturates with adenosine receptors in rat brain. Naunyn-Schmiedeberg's Archives of Pharmacology, 1984, 326, 69-74.	3.0	72
119	Phosducin is a ubiquitous G-protein regulator.. Proceedings of the National Academy of Sciences of the United States of America, 1996, 93, 10145-10150.	7.1	72
120	Integrin Î±E(CD103)Î²7 influences cellular shape and motility in a ligand-dependent fashion. Blood, 2008, 112, 619-625.	1.4	70
121	Î²1-Adrenergic Receptor Function, Autoimmunity, and Pathogenesis of Dilated Cardiomyopathy. Trends in Cardiovascular Medicine, 2006, 16, 20-24.	4.9	69
122	Immunofluorescent imaging of Î²1- and Î²2-adrenergic receptors in rat kidney. Kidney International, 2001, 59, 515-531.	5.2	68
123	Common Genomic Response in Different Mouse Models of Î²-Adrenergicâ€“Induced Cardiomyopathy. Circulation, 2003, 108, 2926-2933.	1.6	68
124	Conformational changes in Gâ€proteinâ€coupled receptorsâ€”the quest for functionally selective conformations is open. British Journal of Pharmacology, 2008, 153, S358-66.	5.4	68
125	Imaging of persistent cAMP signaling by internalized G protein-coupled receptors. Journal of Molecular Endocrinology, 2010, 45, 1-8.	2.5	67
126	Time-resolved fluorescence ligand binding for G proteinâ€“coupled receptors. Nature Protocols, 2013, 8, 1307-1320.	12.0	67

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127	Cardiac RKIP induces a beneficial Î²-adrenoceptorâ€"dependent positive inotropy. Nature Medicine, 2015, 21, 1298-1306.	30.7	67
128	Ligand Binding Ensembles Determine Graded Agonist Efficacies at a G Protein-coupled Receptor. Journal of Biological Chemistry, 2016, 291, 16375-16389.	3.4	67
129	A Fluorescence Resonance Energy Transfer-based M2 Muscarinic Receptor Sensor Reveals Rapid Kinetics of Allosteric Modulation. Journal of Biological Chemistry, 2010, 285, 8793-8800.	3.4	66
130	Placental Î±2-adrenoceptors control vascular development at the interface between mother and embryo. Nature Genetics, 2002, 31, 311-315.	21.4	65
131	Spatial and Temporal Aspects of Signaling by G-Proteinâ€"Coupled Receptors. Molecular Pharmacology, 2015, 88, 572-578.	2.3	65
132	cAMP microdomains and L-type Ca2+channel regulation in guinea-pig ventricular myocytes. Journal of Physiology, 2007, 580, 765-776.	2.9	64
133	Inhibition of G-protein betagamma-subunit functions by phosducin-like protein.. Proceedings of the National Academy of Sciences of the United States of America, 1996, 93, 2100-2104.	7.1	63
134	Cardiac Î²₁â€adrenoceptor autoantibodies in human heart disease: rationale and design of the Etiology, Titreâ€Course, and Survival (ETiCS) Study. European Journal of Heart Failure, 2010, 12, 753-762.	7.1	63
135	PKA catalytic subunit mutations in adrenocortical Cushingâ€™s adenoma impair association with the regulatory subunit. Nature Communications, 2014, 5, 5680.	12.8	63
136	Î²-Adrenergic receptor stimulation causes cardiac hypertrophy via a GÎ²Î³/Erk-dependent pathway. Cardiovascular Research, 2012, 96, 255-264.	3.8	62
137	Arrestin Interactions with G Protein-Coupled Receptors. Handbook of Experimental Pharmacology, 2014, 219, 15-56.	1.8	62
138	Evolutionary action and structural basis of the allosteric switch controlling Î²2AR functional selectivity. Nature Communications, 2017, 8, 2169.	12.8	61
139	G-protein-coupled receptor kinases. Kidney International, 1996, 49, 1047-1052.	5.2	60
140	SUMO-1 Controls the Protein Stability and the Biological Function of Phosducin*. Journal of Biological Chemistry, 2006, 281, 8357-8364.	3.4	60
141	Raf Kinase Inhibitor Protein (RKIP) Dimer Formation Controls Its Target Switch from Raf1 to G Protein-coupled Receptor Kinase (GRK) 2. Journal of Biological Chemistry, 2012, 287, 23407-23417.	3.4	59
142	Barbiturates Are Selective Antagonists at A1Adenosine Receptors. Journal of Neurochemistry, 1985, 45, 1761-1770.	3.9	58
143	Agonist Regulation of Human Î²2-Adrenergic Receptor mRNA Stability Occurs via a Specific AU-rich Element. Journal of Biological Chemistry, 1998, 273, 3223-3229.	3.4	58
144	Pharmacological characterization of A1 adenosine receptors in isolated rat ventricular myocytes. Naunyn-Schmiedeberg's Archives of Pharmacology, 1987, 336, 342-8.	3.0	57

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145	Developing Chemical Genetic Approaches to Explore G Protein-Coupled Receptor Function: Validation of the Use of a Receptor Activated Solely by Synthetic Ligand (RASSL). Molecular Pharmacology, 2011, 80, 1033-1046.	2.3	56
146	Separation of solubilized A2 adenosine receptors of human platelets from non-receptor [3H]NECA binding sites by gel filtration. Naunyn-Schmiedeberg's Archives of Pharmacology, 1988, 337, 64-8.	3.0	55
147	cAMP Signals in Drosophila Motor Neurons Are Confined to Single Synaptic Boutons. Cell Reports, 2016, 17, 1238-1246.	6.4	55
148	Pertussis toxin does not inhibit the Î±1-adrenoceptor-mediated effect on inositol phosphate production in the heart. European Journal of Pharmacology, 1987, 134, 377-378.	3.5	54
149	A1 adenosine receptors expressed in CHO-cells couple to adenylyl cyclase and to phospholipase C. Naunyn-Schmiedeberg's Archives of Pharmacology, 1994, 350, 49-56.	3.0	54
150	Expression, purification, and characterization of the cGMP-dependent protein kinases IÎ² and II using the baculovirus system. FEBS Letters, 1995, 374, 419-425.	2.8	54
151	Vascular Hypertrophy and Increased P70S6 Kinase in Mice Lacking the Angiotensin II AT 2 Receptor. Circulation, 2001, 104, 2602-2607.	1.6	54
152	Monitoring receptor signaling by intramolecular FRET. Current Opinion in Pharmacology, 2007, 7, 547-553.	3.5	54
153	Constitutively active germline mutation of the thyrotropin receptor gene as a cause of congenital hyperthyroidism. Journal of Pediatrics, 1997, 131, 899-904.	1.8	53
154	Persistent cAMP signaling by internalized TSH receptors occurs in thyroid but not in HEK293 cells. FASEB Journal, 2012, 26, 2043-2048.	0.5	53
155	Receptor signals come in waves. Nature, 2013, 495, 457-458.	27.8	52
156	Characterization of the Solubilized A1Adenosine Receptor from Rat Brain Membranes. Journal of Neurochemistry, 1986, 46, 1528-1534.	3.9	51
157	Structure and Regulation of G Protein-Coupled Receptors: The Î²2-Adrenergic Receptor as a Model. Vitamins and Hormones, 1991, 46, 1-39.	1.7	51
158	Interactions of Phosducin with Defined G Protein Î²Î³-Subunits. Journal of Biological Chemistry, 1996, 271, 11781-11786.	3.4	51
159	Kinetics and mechanism of G protein-coupled receptor activation. Current Opinion in Cell Biology, 2014, 27, 87-93.	5.4	51
160	Early impairment of calcium handling and altered expression of junctin in hearts of mice overexpressing the Î² 1 âˆ' adrenergic receptor. FASEB Journal, 2001, 15, 1-18.	0.5	50
161	Partial Agonist Activity of Bucindolol Is Dependent on the Activation State of the Human Î² 1 -Adrenergic Receptor. Circulation, 2003, 108, 348-353.	1.6	50
162	Phosducin-like Protein Regulates G-Protein Î²Î³ Folding by Interaction with Tailless Complex Polypeptide-1Î±. Journal of Biological Chemistry, 2005, 280, 20042-20050.	3.4	50

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163	Pathological autoantibodies in cardiomyopathy. Autoimmunity, 2008, 41, 454-461.	2.6	50
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