

# Robert J Lefkowitz

## List of Publications by Year in descending order

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155  
papers

42,738  
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3874

91  
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9346

148  
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157  
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157  
docs citations

157  
times ranked

23243  
citing authors

#	ARTICLE	IF	CITATIONS
1	Translating science to medicine: The case for physician-scientists. <i>Science Translational Medicine</i> , 2022, 14, eabg7852.	5.8	11
2	GPCR-mediated $\beta$ -arrestin activation deconvoluted with single-molecule precision. <i>Cell</i> , 2022, 185, 1661-1675.e16.	13.5	43
3	Signaling at the endosome: cryo-EM structure of a GPCR $\beta$ -arrestin megacomplex. <i>FEBS Journal</i> , 2021, 288, 2562-2569.	2.2	22
4	$\beta$ -Arrestin $\beta$ -Biased Allosteric Modulator Potentiates Carvedilol-Stimulated $\beta$ Adrenergic Receptor Cardioprotection. <i>Molecular Pharmacology</i> , 2021, 100, 568-579.	1.0	24
5	Unique Positive Cooperativity Between the $\beta$ -Arrestin $\beta$ -Biased $\beta$ -Blocker Carvedilol and a Small Molecule Positive Allosteric Modulator of the $\beta$ -Adrenergic Receptor. <i>Molecular Pharmacology</i> , 2021, 100, 513-525.	1.0	18
6	The GPCR $\beta$ -arrestin complex allosterically activates C-Raf by binding its amino terminus. <i>Journal of Biological Chemistry</i> , 2021, 297, 101369.	1.6	7
7	Allosteric activation of proto-oncogene kinase Src by GPCR $\beta$ -arrestin complexes. <i>Journal of Biological Chemistry</i> , 2020, 295, 16773-16784.	1.6	21
8	Synthetic nanobodies as angiotensin receptor blockers. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 20284-20291.	3.3	35
9	SnapShot: $\beta$ -Arrestin Functions. <i>Cell</i> , 2020, 182, 1362-1362.e1.	13.5	35
10	The $\beta$ -arrestin-biased $\beta$ -adrenergic receptor blocker carvedilol enhances skeletal muscle contractility. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 12435-12443.	3.3	19
11	$\beta$ -Arrestin $\beta$ -Biased Angiotensin II Receptor Agonists for COVID-19. <i>Circulation</i> , 2020, 142, 318-320.	1.6	19
12	Conformational Basis of G Protein-Coupled Receptor Signaling Versatility. <i>Trends in Cell Biology</i> , 2020, 30, 736-747.	3.6	147
13	Molecular Mechanism of Biased Signaling in a Prototypical G-protein-coupled Receptor. <i>Biophysical Journal</i> , 2020, 118, 162a.	0.2	4
14	Angiotensin and biased analogs induce structurally distinct active conformations within a GPCR. <i>Science</i> , 2020, 367, 888-892.	6.0	150
15	Molecular mechanism of biased signaling in a prototypical G protein $\beta$ -coupled receptor. <i>Science</i> , 2020, 367, 881-887.	6.0	168
16	Structure of the M2 muscarinic receptor $\beta$ -arrestin complex in a lipid nanodisc. <i>Nature</i> , 2020, 579, 297-302.	13.7	238
17	Detergent- and phospholipid-based reconstitution systems have differential effects on constitutive activity of G-protein $\beta$ -coupled receptors. <i>Journal of Biological Chemistry</i> , 2019, 294, 13218-13223.	1.6	38
18	Mechanism of $\beta$ AR regulation by an intracellular positive allosteric modulator. <i>Science</i> , 2019, 364, 1283-1287.	6.0	82

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19	Structure of an endosomal signaling GPCR $\beta$ 1-G protein $\beta$ 1-arrestin megacomplex. <i>Nature Structural and Molecular Biology</i> , 2019, 26, 1123-1131.	3.6	139
20	Angiotensin Analogs with Divergent Bias Stabilize Distinct Receptor Conformations. <i>Cell</i> , 2019, 176, 468-478.e11.	13.5	194
21	Distinctive Activation Mechanism for Angiotensin Receptor Revealed by a Synthetic Nanobody. <i>Cell</i> , 2019, 176, 479-490.e12.	13.5	143
22	Biased signalling: from simple switches to allosteric microprocessors. <i>Nature Reviews Drug Discovery</i> , 2018, 17, 243-260.	21.5	524
23	Sortase ligation enables homogeneous GPCR phosphorylation to reveal diversity in $\beta$ 1-arrestin coupling. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 3834-3839.	3.3	57
24	A Serendipitous Scientist. <i>Annual Review of Pharmacology and Toxicology</i> , 2018, 58, 17-32.	4.2	4
25	$\beta$ 1-arrestin 1 regulates $\beta$ 2-adrenergic receptor-mediated skeletal muscle hypertrophy and contractility. <i>Skeletal Muscle</i> , 2018, 8, 39.	1.9	37
26	Manifold roles of $\beta$ 1-arrestins in GPCR signaling elucidated with siRNA and CRISPR/Cas9. <i>Science Signaling</i> , 2018, 11, .	1.6	169
27	Small-Molecule Positive Allosteric Modulators of the $\beta$ 2-Adrenoceptor Isolated from DNA-Encoded Libraries. <i>Molecular Pharmacology</i> , 2018, 94, 850-861.	1.0	66
28	GPCR signaling: conformational activation of arrestins. <i>Cell Research</i> , 2018, 28, 783-784.	5.7	20
29	G protein $\beta$ 1-coupled receptor kinases (GRKs) orchestrate biased agonism at the $\beta$ 2-adrenergic receptor. <i>Science Signaling</i> , 2018, 11, .	1.6	47
30	Allosteric $\beta$ -blocker isolated from a DNA-encoded small molecule library. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 1708-1713.	3.3	118
31	Distinct conformations of GPCR $\beta$ 1-arrestin complexes mediate desensitization, signaling, and endocytosis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 2562-2567.	3.3	281
32	$\beta$ 1-Arrestin2 Couples Metabotropic Glutamate Receptor 5 to Neuronal Protein Synthesis and Is a Potential Target to Treat Fragile X. <i>Cell Reports</i> , 2017, 18, 2807-2814.	2.9	60
33	Mechanism of intracellular allosteric $\beta$ 2AR antagonist revealed by X-ray crystal structure. <i>Nature</i> , 2017, 548, 480-484.	13.7	148
34	$\beta$ 1-Arrestin2 mediates progression of murine primary myelofibrosis. <i>JCI Insight</i> , 2017, 2, .	2.3	5
35	Conformationally selective RNA aptamers allosterically modulate the $\beta$ 2-adrenoceptor. <i>Nature Chemical Biology</i> , 2016, 12, 709-716.	3.9	65
36	GPCR-G Protein- $\beta$ 1-Arrestin Super-Complex Mediates Sustained G Protein Signaling. <i>Cell</i> , 2016, 166, 907-919.	13.5	443

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37	Allosteric nanobodies reveal the dynamic range and diverse mechanisms of G-protein-coupled receptor activation. <i>Nature</i> , 2016, 535, 448-452.	13.7	290
38	The role of $\beta$ -arrestin2-dependent signaling in thoracic aortic aneurysm formation in a murine model of Marfan syndrome. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2015, 309, H1516-H1527.	1.5	17
39	$\beta$ -arrestin2 Is Necessary for Development of MPLW515L Mutant Primary Myelofibrosis. <i>Blood</i> , 2015, 126, 486-486.	0.6	0
40	Allosteric Modulation of $\beta$ -Arrestin-biased Angiotensin II Type 1 Receptor Signaling by Membrane Stretch. <i>Journal of Biological Chemistry</i> , 2014, 289, 28271-28283.	1.6	55
41	Divergent Transducer-specific Molecular Efficacies Generate Biased Agonism at a G Protein-coupled Receptor (GPCR). <i>Journal of Biological Chemistry</i> , 2014, 289, 14211-14224.	1.6	105
42	Visualization of arrestin recruitment by a G-protein-coupled receptor. <i>Nature</i> , 2014, 512, 218-222.	13.7	433
43	Regulation of $\beta$ -Adrenergic Receptor Function by Conformationally Selective Single-Domain Intrabodies. <i>Molecular Pharmacology</i> , 2014, 85, 472-481.	1.0	121
44	Recent developments in biased agonism. <i>Current Opinion in Cell Biology</i> , 2014, 27, 18-24.	2.6	247
45	Discovery of $\beta$ 2 Adrenergic Receptor Ligands Using Biosensor Fragment Screening of Tagged Wild-Type Receptor. <i>ACS Medicinal Chemistry Letters</i> , 2013, 4, 1005-1010.	1.3	65
46	Arrestins Come of Age. <i>Progress in Molecular Biology and Translational Science</i> , 2013, 118, 3-18.	0.9	50
47	Structure of active $\beta$ -arrestin-1 bound to a G-protein-coupled receptor phosphopeptide. <i>Nature</i> , 2013, 497, 137-141.	13.7	393
48	A Brief History of G-Protein Coupled Receptors (Nobel Lecture). <i>Angewandte Chemie - International Edition</i> , 2013, 52, 6366-6378.	7.2	222
49	Eine kurze Geschichte der G-Protein-gekoppelten Rezeptoren (Nobel-Aufsatz). <i>Angewandte Chemie</i> , 2013, 125, 6494-6507.	1.6	9
50	Crystal structure of active $\beta$ -arrestin1 bound to phosphorylated carboxy-terminus of a G protein-coupled receptor. <i>FASEB Journal</i> , 2013, 27, lb549.	0.2	0
51	Targeting $\beta$ -arrestin2 Enhances Survival in a Murine Model of Chronic Myeloid Leukemia. <i>Blood</i> , 2013, 122, 857-857.	0.6	0
52	Molecular Mechanism of $\beta$ -Arrestin-Biased Agonism at Seven-Transmembrane Receptors. <i>Annual Review of Pharmacology and Toxicology</i> , 2012, 52, 179-197.	4.2	536
53	Quantifying Ligand Bias at Seven-Transmembrane Receptors. <i>Molecular Pharmacology</i> , 2011, 80, 367-377.	1.0	341
54	A stress response pathway regulates DNA damage through $\beta$ 2-adrenoreceptors and $\beta$ -arrestin-1. <i>Nature</i> , 2011, 477, 349-353.	13.7	360

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55	Therapeutic potential of $\beta^2$ -arrestin- and G protein-biased agonists. Trends in Molecular Medicine, 2011, 17, 126-139.	3.5	469
56	$\beta^2$ -arrestin-mediated receptor trafficking and signal transduction. Trends in Pharmacological Sciences, 2011, 32, 521-533.	4.0	628
57	Emerging paradigms of $\beta^2$ -arrestin-dependent seven transmembrane receptor signaling. Trends in Biochemical Sciences, 2011, 36, 457-469.	3.7	380
58	Distinct Phosphorylation Sites on the $\beta^2$ -Adrenergic Receptor Establish a Barcode That Encodes Differential Functions of $\beta^2$ -Arrestin. Science Signaling, 2011, 4, ra51.	1.6	535
59	$\beta^2$ -Arrestin Deficiency Protects Against Pulmonary Fibrosis in Mice and Prevents Fibroblast Invasion of Extracellular Matrix. Science Translational Medicine, 2011, 3, 74ra23.	5.8	81
60	A tale of two callings. Journal of Clinical Investigation, 2011, 121, 4201-4203.	3.9	3
61	Teaching old receptors new tricks: biasing seven-transmembrane receptors. Nature Reviews Drug Discovery, 2010, 9, 373-386.	21.5	724
62	$\beta^2$ -arrestin- but not G protein-mediated signaling by the $\beta$ -adrenergic receptor CXCR7. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 628-632.	3.3	499
63	$\beta^2$ -arrestin 1 mediates angiotensin II induced ubiquitination and downregulation of TRPV4. FASEB Journal, 2009, 23, 944.3.	0.2	0
64	$\beta^2$ -Arrestin-biased Agonism at the $\beta^2$ -Adrenergic Receptor. Journal of Biological Chemistry, 2008, 283, 5669-5676.	1.6	226
65	$\beta^2$ -Arrestin-mediated Signaling Regulates Protein Synthesis. Journal of Biological Chemistry, 2008, 283, 10611-10620.	1.6	84
66	Pharmacological Characterization of Membrane-Expressed Human Trace Amine-Associated Receptor 1 (TAAR1) by a Bioluminescence Resonance Energy Transfer cAMP Biosensor. Molecular Pharmacology, 2008, 74, 585-594.	1.0	135
67	The annual ASCI meeting: does nostalgia have a future?. Journal of Clinical Investigation, 2008, 118, 1231-1233.	3.9	2
68	The Active Conformation of $\beta^2$ -Arrestin1. Journal of Biological Chemistry, 2007, 282, 21370-21381.	1.6	121
69	A unique mechanism of $\beta^2$ -blocker action: Carvedilol stimulates $\beta^2$ -arrestin signaling. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 16657-16662.	3.3	545
70	$\beta^2$ -Arrestins and Cell Signaling. Annual Review of Physiology, 2007, 69, 483-510.	5.6	1,277
71	Introduction to Special Section on $\beta^2$ -Arrestins. Annual Review of Physiology, 2007, 69, .	5.6	42
72	$\beta^2$ -Arrestin-mediated $\beta^2$ -adrenergic receptor transactivation of the EGFR confers cardioprotection. Journal of Clinical Investigation, 2007, 117, 2445-2458.	3.9	405

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73	New Roles for $\beta$ -Arrestins in Cell Signaling: Not Just for Seven-Transmembrane Receptors. <i>Molecular Cell</i> , 2006, 24, 643-652.	4.5	273
74	Molecular Mechanisms of Coupling in Hormone Receptor-Adenylate Cyclase Systems. <i>Advances in Enzymology and Related Areas of Molecular Biology</i> , 2006, 53, 1-43.	1.3	36
75	Distinct $\beta$ -Arrestin- and G Protein-dependent Pathways for Parathyroid Hormone Receptor-stimulated ERK1/2 Activation. <i>Journal of Biological Chemistry</i> , 2006, 281, 10856-10864.	1.6	422
76	$\beta$ -Arrestin-dependent, G Protein-independent ERK1/2 Activation by the $\beta$ 2 Adrenergic Receptor. <i>Journal of Biological Chemistry</i> , 2006, 281, 1261-1273.	1.6	651
77	Conformational Changes in $\beta$ -Arrestin1: The Importance of $\beta$ -Arrestin1's N-Terminal Domain. <i>FASEB Journal</i> , 2006, 20, A114.	0.2	0
78	Summary of Wenner-Gren International Symposium Receptor-Receptor Interactions Among Heptaspanning Membrane Receptors: From Structure to Function. <i>Journal of Molecular Neuroscience</i> , 2005, 26, 293-294.	1.1	5
79	Receptor regulation: $\beta$ -arrestin moves up a notch. <i>Nature Cell Biology</i> , 2005, 7, 1159-1161.	4.6	22
80	Functional antagonism of different G protein-coupled receptor kinases for $\beta$ -arrestin-mediated angiotensin II receptor signaling. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 1442-1447.	3.3	318
81	Different G protein-coupled receptor kinases govern G protein and $\beta$ -arrestin-mediated signaling of V2 vasopressin receptor. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 1448-1453.	3.3	298
82	Transduction of Receptor Signals by $\beta$ -Arrestins. <i>Science</i> , 2005, 308, 512-517.	6.0	1,570
83	Constitutive Protease-activated Receptor-2-mediated Migration of MDA MB-231 Breast Cancer Cells Requires Both $\beta$ -Arrestin-1 and -2. <i>Journal of Biological Chemistry</i> , 2004, 279, 55419-55424.	1.6	155
84	Differential Kinetic and Spatial Patterns of $\beta$ -Arrestin and G Protein-mediated ERK Activation by the Angiotensin II Receptor. <i>Journal of Biological Chemistry</i> , 2004, 279, 35518-35525.	1.6	455
85	Stable Interaction between $\beta$ -Arrestin 2 and Angiotensin Type 1A Receptor Is Required for $\beta$ -Arrestin 2-mediated Activation of Extracellular Signal-regulated Kinases 1 and 2. <i>Journal of Biological Chemistry</i> , 2004, 279, 48255-48261.	1.6	76
86	Activation-dependent Conformational Changes in $\beta$ -Arrestin 2. <i>Journal of Biological Chemistry</i> , 2004, 279, 55744-55753.	1.6	135
87	Reciprocal Regulation of Angiotensin Receptor-activated Extracellular Signal-regulated Kinases by $\beta$ -Arrestins 1 and 2. <i>Journal of Biological Chemistry</i> , 2004, 279, 7807-7811.	1.6	157
88	$\beta$ -arrestins: traffic cops of cell signaling. <i>Current Opinion in Cell Biology</i> , 2004, 16, 162-168.	2.6	269
89	Historical review: A brief history and personal retrospective of seven-transmembrane receptors. <i>Trends in Pharmacological Sciences</i> , 2004, 25, 413-422.	4.0	363
90	Keeping G Proteins at Bay: A Complex Between G Protein-Coupled Receptor Kinase 2 and Gbetagamma. <i>Science</i> , 2003, 300, 1256-1262.	6.0	361

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91	Independent $\beta$ -arrestin 2 and G protein-mediated pathways for angiotensin II activation of extracellular signal-regulated kinases 1 and 2. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 10782-10787.	3.3	620
92	The Stability of the G Protein-coupled Receptor- $\beta$ -Arrestin Interaction Determines the Mechanism and Functional Consequence of ERK Activation. Journal of Biological Chemistry, 2003, 278, 6258-6267.	1.6	316
93	Desensitization, internalization, and signaling functions of $\beta$ -arrestins demonstrated by RNA interference. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 1740-1744.	3.3	210
94	$\beta$ -Arrestin-2 regulates the development of allergic asthma. Journal of Clinical Investigation, 2003, 112, 566-574.	3.9	99
95	$\beta$ -Arrestin-2 regulates the development of allergic asthma. Journal of Clinical Investigation, 2003, 112, 566-574.	3.9	166
96	Protein Kinase A-mediated Phosphorylation of the $\beta$ -Adrenergic Receptor Regulates Its Coupling to Gs and Gi. Journal of Biological Chemistry, 2002, 277, 31249-31256.	1.6	175
97	$\beta$ -Arrestin Scaffolding of the ERK Cascade Enhances Cytosolic ERK Activity but Inhibits ERK-mediated Transcription following Angiotensin AT1a Receptor Stimulation. Journal of Biological Chemistry, 2002, 277, 9429-9436.	1.6	345
98	Dancing with Different Partners: Protein Kinase A Phosphorylation of Seven Membrane-Spanning Receptors Regulates Their G Protein-Coupling Specificity. Molecular Pharmacology, 2002, 62, 971-974.	1.0	162
99	Phosphorylation of $\beta$ -Arrestin2 Regulates Its Function in Internalization of $\beta$ -Adrenergic Receptors. Biochemistry, 2002, 41, 10692-10699.	1.2	87
100	Seven-transmembrane-spanning receptors and heart function. Nature, 2002, 415, 206-212.	13.7	862
101	Seven-transmembrane receptors. Nature Reviews Molecular Cell Biology, 2002, 3, 639-650.	16.1	2,357
102	The role of $\beta$ -arrestins in the termination and transduction of G-protein-coupled receptor signals. Journal of Cell Science, 2002, 115, 455-465.	1.2	935
103	The role of beta-arrestins in the termination and transduction of G-protein-coupled receptor signals. Journal of Cell Science, 2002, 115, 455-65.	1.2	780
104	Augmentation of Cardiac Contractility Mediated by the Human $\beta_3$ -Adrenergic Receptor Overexpressed in the Hearts of Transgenic Mice. Circulation, 2001, 104, 2485-2491.	1.6	85
105	Classical and new roles of $\beta$ -arrestins in the regulation of G-PROTEIN-COUPLED receptors. Nature Reviews Neuroscience, 2001, 2, 727-733.	4.9	413
106	$\beta_4$ -Opioid receptor desensitization by $\beta$ -arrestin-2 determines morphine tolerance but not dependence. Nature, 2000, 408, 720-723.	13.7	834
107	Intracoronary Adenovirus-Mediated Delivery and Overexpression of the $\beta_2$ -Adrenergic Receptor in the Heart. Circulation, 2000, 101, 408-414.	1.6	133
108	$\beta$ -Actinin is a potent regulator of G protein-coupled receptor kinase activity and substrate specificity in vitro. FEBS Letters, 2000, 473, 280-284.	1.3	39

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109	beta -Arrestin 2: A Receptor-Regulated MAPK Scaffold for the Activation of JNK3. , 2000, 290, 1574-1577.		752
110	Altered airway and cardiac responses in mice lacking G protein-coupled receptor kinase 3. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 1999, 276, R1214-R1221.	0.9	33
111	Enhanced Morphine Analgesia in Mice Lacking -Arrestin 2&nbsp;. Science, 1999, 286, 2495-2498.	6.0	953
112	Myocardial G Proteinâ€‘Coupled Receptor Kinases: Implications for Heart Failure Therapy. Proceedings of the Association of American Physicians, 1999, 111, 399-405.	2.1	35
113	The Î²2-adrenergic receptor interacts with the Na <sup>+</sup> /H <sup>+</sup> -exchanger regulatory factor to control Na <sup>+</sup> /H <sup>+</sup> exchange. Nature, 1998, 392, 626-630.	13.7	566
114	Palmitoylation Increases the Kinase Activity of the G Protein-Coupled Receptor Kinase, GRK6â€‘. Biochemistry, 1998, 37, 16053-16059.	1.2	48
115	G PROTEINâ€‘COUPLED RECEPTOR KINASES. Annual Review of Biochemistry, 1998, 67, 653-692.	5.0	1,194
116	GÎ²Î³ Subunits Mediate Src-dependent Phosphorylation of the Epidermal Growth Factor Receptor. Journal of Biological Chemistry, 1997, 272, 4637-4644.	1.6	420
117	Switching of the coupling of the Î²2-adrenergic receptor to different G proteins by protein kinase A. Nature, 1997, 390, 88-91.	13.7	1,176
118	Identification of the G Protein-coupled Receptor Kinase Phosphorylation Sites in the Human Î²2-Adrenergic Receptor. Journal of Biological Chemistry, 1996, 271, 13796-13803.	1.6	205
119	Role of c-Src Tyrosine Kinase in G Protein-coupled Receptorand GÎ²Î³ Subunit-mediated Activation of Mitogen-activated Protein Kinases. Journal of Biological Chemistry, 1996, 271, 19443-19450.	1.6	483
120	Physiological effects of inverse agonists in transgenic mice with myocardial overexpression of the Î²2-adrenoceptor. Nature, 1995, 374, 272-276.	13.7	431
121	Receptor-tyrosine-kinase- and GÎ²Î³-mediated MAP kinase activation by a common signalling pathway. Nature, 1995, 376, 781-784.	13.7	554
122	Protein kinases that phosphorylate activated G proteinâ€‘coupled receptors. FASEB Journal, 1995, 9, 175-182.	0.2	494
123	Distinct Pathways of Gi- and Gq-mediated Mitogen-activated Protein Kinase Activation. Journal of Biological Chemistry, 1995, 270, 17148-17153.	1.6	397
124	A region of adenylyl cyclase 2 critical for regulation by G protein beta gamma subunits. Science, 1995, 268, 1166-1169.	6.0	261
125	Activation of the cloned muscarinic potassium channel by G protein Î²Î³ subunits. Nature, 1994, 370, 143-146.	13.7	484
126	Turned on to ill effect. Nature, 1993, 365, 603-604.	13.7	101



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127	Identification, Quantification, and Localization of mRNA for Three Distinct Alpha <sub>1</sub> Adrenergic Receptor Subtypes in Human Prostate. <i>Journal of Urology</i> , 1993, 150, 546-551.	0.2	310
128	Isoprenylation in regulation of signal transduction by G-protein-coupled receptor kinases. <i>Nature</i> , 1992, 359, 147-150.	13.7	310
129	Variations on a theme. <i>Nature</i> , 1991, 351, 353-354.	13.7	22
130	Mechanisms involved in adrenergic receptor desensitization. <i>Biochemical Society Transactions</i> , 1990, 18, 541-544.	1.6	31
131	Turning off the signal: desensitization of $\hat{\alpha}$ -adrenergic receptor function. <i>FASEB Journal</i> , 1990, 4, 2881-2889.	0.2	1,209
132	<i>Response</i> : Analysis of Ligand Binding Specificity of Receptor Chimeras. <i>Science</i> , 1989, 243, 237-237.	6.0	0
133	Removal of phosphorylation sites from the $\hat{\alpha}$ -adrenergic receptor delays onset of agonist-promoted desensitization. <i>Nature</i> , 1988, 333, 370-373.	13.7	439
134	The genomic clone G-21 which resembles a $\hat{\alpha}$ -adrenergic receptor sequence encodes the 5-HT <sub>1A</sub> receptor. <i>Nature</i> , 1988, 335, 358-360.	13.7	611
135	Cloning of the cDNA and Genes for the Hamster and Human $\hat{\alpha}$ -Adrenergic Receptors. <i>Journal of Receptors and Signal Transduction</i> , 1988, 8, 7-21.	1.2	13
136	Regulation of the $\hat{\alpha}$ -adrenergic receptor and its mRNA in the rat ventral prostate by testosterone. <i>FEBS Letters</i> , 1988, 233, 173-176.	1.3	49
137	Cross-talk between cellular signalling pathways suggested by phorbol-ester-induced adenylate cyclase phosphorylation. <i>Nature</i> , 1987, 327, 67-70.	13.7	538
138	An intronless gene encoding a potential member of the family of receptors coupled to guanine nucleotide regulatory proteins. <i>Nature</i> , 1987, 329, 75-79.	13.7	513
139	Cloning of the gene and cDNA for mammalian $\hat{\alpha}$ -adrenergic receptor and homology with rhodopsin. <i>Nature</i> , 1986, 321, 75-79.	13.7	1,284
140	Light-dependent phosphorylation of rhodopsin by $\hat{\alpha}$ -adrenergic receptor kinase. <i>Nature</i> , 1986, 321, 869-872.	13.7	207
141	Identification of the Subunit Structure of Rat Pineal Adrenergic Receptors by Photoaffinity Labeling. <i>Journal of Neurochemistry</i> , 1986, 46, 1153-1160.	2.1	12
142	Molecular mechanisms of receptor desensitization using the $\hat{\alpha}$ -adrenergic receptor-coupled adenylate cyclase system as a model. <i>Nature</i> , 1985, 317, 124-129.	13.7	758
143	A role for Ni in the hormonal stimulation of adenylate cyclase. <i>Nature</i> , 1985, 318, 293-295.	13.7	107
144	Effect of pertussis toxin on $\hat{\alpha}$ -adrenoceptors: decreased formation of the high-affinity state for agonists. <i>FEBS Letters</i> , 1984, 172, 95-98.	1.3	19

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145	Pure $\beta_2$ -adrenergic receptor: the single polypeptide confers catecholamine responsiveness to adenylate cyclase. <i>Nature</i> , 1983, 306, 562-566.	13.7	117
146	Title is missing!. <i>Die Makromolekulare Chemie</i> , 1981, 182, 1945-1950.	1.1	7
147	Dihydroergocryptine binding and $\beta_1$ -adrenoreceptors in smooth muscle. <i>Nature</i> , 1980, 283, 109-110.	13.7	6
148	Differential regulation of the $\beta_2$ -adrenergic receptor by $\text{Na}^+$ and guanine nucleotides. <i>Nature</i> , 1980, 288, 709-711.	13.7	123
149	$\beta_2$ -Adrenoreceptors determine affinity but not intrinsic activity of adenylate cyclase stimulants. <i>Nature</i> , 1979, 280, 502-504.	13.7	25
150	Chronic guanethidine treatment increases cardiac $\beta_2$ -adrenergic receptors. <i>Nature</i> , 1978, 273, 240-242.	13.7	89
151	Beta-adrenergic receptors: Regulatory role of agonists. <i>Journal of Supramolecular Structure</i> , 1978, 8, 501-510.	2.3	7
152	Comparison of specificity of agonist and antagonist radioligand binding to $\beta_2$ adrenergic receptors. <i>Nature</i> , 1977, 268, 453-454.	13.7	17
153	Temperature immutability of adenylyl cyclase-coupled $\beta_2$ adrenergic receptors. <i>Nature</i> , 1974, 249, 258-260.	13.7	31
154	ACTH-RECEPTOR INTERACTION IN THE ADRENAL: A MODEL FOR THE INITIAL STEP IN THE ACTION OF HORMONES THAT STIMULATE ADENYL CYCLASE. <i>Annals of the New York Academy of Sciences</i> , 1971, 185, 195-209.	1.8	104
155	Costimulation of Adenylyl Cyclase and Phospholipase C by a Mutant $\beta_1$ -Adrenergic Receptor Transgene Promotes Malignant Transformation of Thyroid Follicular Cells. , 0, .		6