

Michel Bouvier

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270
papers

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81
h-index

141
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296
ext. papers

23,664
ext. citations

8.4
avg, IF

6.74
L-index

#	Paper	IF	Citations
270	A peptide derived from a beta2-adrenergic receptor transmembrane domain inhibits both receptor dimerization and activation. <i>Journal of Biological Chemistry</i> , 1996 , 271, 16384-92	5.4	594
269	Oligomerization of G-protein-coupled transmitter receptors. <i>Nature Reviews Neuroscience</i> , 2001 , 2, 274-86	6.5	581
268	Roles of G-protein-coupled receptor dimerization. <i>EMBO Reports</i> , 2004 , 5, 30-4	6.5	534
267	Dimerization: an emerging concept for G protein-coupled receptor ontogeny and function. <i>Annual Review of Pharmacology and Toxicology</i> , 2002 , 42, 409-35	17.9	511
266	Cross-talk between cellular signalling pathways suggested by phorbol-ester-induced adenylate cyclase phosphorylation. <i>Nature</i> , 1987 , 327, 67-70	50.4	502
265	Beta-arrestin-mediated activation of MAPK by inverse agonists reveals distinct active conformations for G protein-coupled receptors. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003 , 100, 11406-11	11.5	436
264	Removal of phosphorylation sites from the beta 2-adrenergic receptor delays onset of agonist-promoted desensitization. <i>Nature</i> , 1988 , 333, 370-3	50.4	413
263	Pharmacological chaperones rescue cell-surface expression and function of misfolded V2 vasopressin receptor mutants. <i>Journal of Clinical Investigation</i> , 2000 , 105, 887-95	15.9	412
262	Quantitative assessment of beta 1- and beta 2-adrenergic receptor homo- and heterodimerization by bioluminescence resonance energy transfer. <i>Journal of Biological Chemistry</i> , 2002 , 277, 44925-31	5.4	401
261	Emerging role of homo- and heterodimerization in G-protein-coupled receptor biosynthesis and maturation. <i>Trends in Pharmacological Sciences</i> , 2005 , 26, 131-7	13.2	390
260	Adenosine A2A-dopamine D2 receptor-receptor heteromerization: qualitative and quantitative assessment by fluorescence and bioluminescence energy transfer. <i>Journal of Biological Chemistry</i> , 2003 , 278, 46741-9	5.4	353
259	Regulation of adenylyl cyclase-coupled beta-adrenergic receptors. <i>Annual Review of Cell Biology</i> , 1988 , 4, 405-28		344
258	Probing the activation-promoted structural rearrangements in preassembled receptor-G protein complexes. <i>Nature Structural and Molecular Biology</i> , 2006 , 13, 778-86	17.6	336
257	Real-time monitoring of receptor and G-protein interactions in living cells. <i>Nature Methods</i> , 2005 , 2, 177-84	8.6	325
256	GPCR-G Protein-Arrestin Super-Complex Mediates Sustained G Protein Signaling. <i>Cell</i> , 2016 , 166, 907-919	36.2	324
255	Building a new conceptual framework for receptor heteromers. <i>Nature Chemical Biology</i> , 2009 , 5, 131-4	11.7	313
254	The evasive nature of drug efficacy: implications for drug discovery. <i>Trends in Pharmacological Sciences</i> , 2007 , 28, 423-30	13.2	295

253	Oxytocin and vasopressin V1a and V2 receptors form constitutive homo- and heterodimers during biosynthesis. <i>Molecular Endocrinology</i> , 2003 , 17, 677-91		272
252	International Union of Basic and Clinical Pharmacology. LXVII. Recommendations for the recognition and nomenclature of G protein-coupled receptor heteromultimers. <i>Pharmacological Reviews</i> , 2007 , 59, 5-13	22.5	255
251	Distinct signaling profiles of beta1 and beta2 adrenergic receptor ligands toward adenylyl cyclase and mitogen-activated protein kinase reveals the pluridimensionality of efficacy. <i>Molecular Pharmacology</i> , 2006 , 70, 1575-84	4.3	254
250	Homodimerization of the beta2-adrenergic receptor as a prerequisite for cell surface targeting. <i>Journal of Biological Chemistry</i> , 2004 , 279, 33390-7	5.4	243
249	Glycoprotein hormone receptors: link between receptor homodimerization and negative cooperativity. <i>EMBO Journal</i> , 2005 , 24, 1954-64	13	242
248	Export from the endoplasmic reticulum represents the limiting step in the maturation and cell surface expression of the human delta opioid receptor. <i>Journal of Biological Chemistry</i> , 2000 , 275, 13727-36	5.4	242
247	Monitoring of ligand-independent dimerization and ligand-induced conformational changes of melatonin receptors in living cells by bioluminescence resonance energy transfer. <i>Journal of Biological Chemistry</i> , 2002 , 277, 21522-8	5.4	240
246	Pharmacological chaperones: potential treatment for conformational diseases. <i>Trends in Endocrinology and Metabolism</i> , 2004 , 15, 222-8	8.8	223
245	Ligands act as pharmacological chaperones and increase the efficiency of delta opioid receptor maturation. <i>EMBO Journal</i> , 2002 , 21, 1628-37	13	213
244	Restructuring G-protein-coupled receptor activation. <i>Cell</i> , 2012 , 151, 14-23	56.2	208
243	Pharmacological chaperones: a new twist on receptor folding. <i>Trends in Pharmacological Sciences</i> , 2000 , 21, 466-9	13.2	207
242	Role of palmitoylation/depalmitoylation reactions in G-protein-coupled receptor function 2003 , 97, 1-33		201
241	Bioluminescence resonance energy transfer reveals ligand-induced conformational changes in CXCR4 homo- and heterodimers. <i>Journal of Biological Chemistry</i> , 2005 , 280, 9895-903	5.4	200
240	Site-specific phosphorylation of CXCR4 is dynamically regulated by multiple kinases and results in differential modulation of CXCR4 signaling. <i>Journal of Biological Chemistry</i> , 2010 , 285, 7805-17	5.4	198
239	Distinct conformations of GPCR-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	11.5	194
238	The experimental power of FR900359 to study Gq-regulated biological processes. <i>Nature Communications</i> , 2015 , 6, 10156	17.4	190
237	Methods to monitor the quaternary structure of G protein-coupled receptors. <i>FEBS Journal</i> , 2005 , 272, 2914-25	5.7	189
236	Pharmacologic chaperones as a potential treatment for X-linked nephrogenic diabetes insipidus. <i>Journal of the American Society of Nephrology: JASN</i> , 2006 , 17, 232-43	12.7	187

235	Diverse activation pathways in class A GPCRs converge near the G-protein-coupling region. <i>Nature</i> , 2016 , 536, 484-7	50.4	184
234	Newly synthesized human delta opioid receptors retained in the endoplasmic reticulum are retrotranslocated to the cytosol, deglycosylated, ubiquitinated, and degraded by the proteasome. <i>Journal of Biological Chemistry</i> , 2001 , 276, 4416-23	5.4	176
233	Beta 1/beta 2-adrenergic receptor heterodimerization regulates beta 2-adrenergic receptor internalization and ERK signaling efficacy. <i>Journal of Biological Chemistry</i> , 2002 , 277, 35402-10	5.4	175
232	Propranolol therapy for ectopic beta-adrenergic receptors in adrenal Cushing@ syndrome. <i>New England Journal of Medicine</i> , 1997 , 337, 1429-34	59.2	173
231	High-throughput screening of G protein-coupled receptor antagonists using a bioluminescence resonance energy transfer 1-based beta-arrestin2 recruitment assay. <i>Journal of Biomolecular Screening</i> , 2005 , 10, 463-75		167
230	Quantification of ligand bias for clinically relevant β -adrenergic receptor ligands: implications for drug taxonomy. <i>Molecular Pharmacology</i> , 2014 , 85, 492-509	4.3	165
229	Constitutive agonist-independent CCR5 oligomerization and antibody-mediated clustering occurring at physiological levels of receptors. <i>Journal of Biological Chemistry</i> , 2002 , 277, 34666-73	5.4	165
228	G protein-coupled receptors form stable complexes with inwardly rectifying potassium channels and adenylyl cyclase. <i>Journal of Biological Chemistry</i> , 2002 , 277, 46010-9	5.4	161
227	Desensitization, phosphorylation and palmitoylation of the human dopamine D1 receptor. <i>European Journal of Pharmacology</i> , 1994 , 267, 7-19		160
226	Mutant Frizzled 4 associated with vitreoretinopathy traps wild-type Frizzled in the endoplasmic reticulum by oligomerization. <i>Nature Cell Biology</i> , 2004 , 6, 52-8	23.4	148
225	Human serotonin1B receptor expression in Sf9 cells: phosphorylation, palmitoylation, and adenylyl cyclase inhibition. <i>Biochemistry</i> , 1993 , 32, 11727-33	3.2	145
224	Monitoring agonist-promoted conformational changes of beta-arrestin in living cells by intramolecular BRET. <i>EMBO Reports</i> , 2005 , 6, 334-40	6.5	144
223	Monitoring G protein-coupled receptor and β arrestin trafficking in live cells using enhanced bystander BRET. <i>Nature Communications</i> , 2016 , 7, 12178	17.4	140
222	Real-time monitoring of ubiquitination in living cells by BRET. <i>Nature Methods</i> , 2004 , 1, 203-8	21.6	128
221	Functional rescue of the constitutively internalized V2 vasopressin receptor mutant R137H by the pharmacological chaperone action of SR49059. <i>Molecular Endocrinology</i> , 2004 , 18, 2074-84		127
220	Heterodimerization of V1a and V2 vasopressin receptors determines the interaction with beta-arrestin and their trafficking patterns. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004 , 101, 1548-53	11.5	127
219	Hetero-oligomerization between beta2- and beta3-adrenergic receptors generates a beta-adrenergic signaling unit with distinct functional properties. <i>Journal of Biological Chemistry</i> , 2004 , 279, 28756-65	5.4	124
218	Resonance energy transfer approaches in molecular pharmacology and beyond. <i>Trends in Pharmacological Sciences</i> , 2007 , 28, 362-5	13.2	123

217	Homodimerization of adenosine A2A receptors: qualitative and quantitative assessment by fluorescence and bioluminescence energy transfer. <i>Journal of Neurochemistry</i> , 2004 , 88, 726-34	6	123
216	Adenosine A2A-dopamine D2 receptor-receptor heteromers. Targets for neuro-psychiatric disorders. <i>Parkinsonism and Related Disorders</i> , 2004 , 10, 265-71	3.6	122
215	Inhibitors that stabilize a closed RAF kinase domain conformation induce dimerization. <i>Nature Chemical Biology</i> , 2013 , 9, 428-36	11.7	120
214	Heterotrimeric G proteins form stable complexes with adenylyl cyclase and Kir3.1 channels in living cells. <i>Journal of Cell Science</i> , 2006 , 119, 2807-18	5.3	120
213	Differential β arrestin-dependent conformational signaling and cellular responses revealed by angiotensin analogs. <i>Science Signaling</i> , 2012 , 5, ra33	8.8	119
212	Functional selective oxytocin-derived agonists discriminate between individual G protein family subtypes. <i>Journal of Biological Chemistry</i> , 2012 , 287, 3617-29	5.4	117
211	Manifold roles of β arrestins in GPCR signaling elucidated with siRNA and CRISPR/Cas9. <i>Science Signaling</i> , 2018 , 11,	8.8	116
210	Pepducin targeting the C-X-C chemokine receptor type 4 acts as a biased agonist favoring activation of the inhibitory G protein. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, E5088-97	11.5	114
209	Pharmacological chaperone action on G-protein-coupled receptors. <i>Current Opinion in Pharmacology</i> , 2004 , 4, 528-33	5.1	114
208	BRET analysis of GPCR oligomerization: newer does not mean better. <i>Nature Methods</i> , 2007 , 4, 3-4; author reply 4	21.6	112
207	Neutrophil elastase acts as a biased agonist for proteinase-activated receptor-2 (PAR2). <i>Journal of Biological Chemistry</i> , 2011 , 286, 24638-48	5.4	109
206	Phosphorylation-independent desensitization of GABA(B) receptor by GRK4. <i>EMBO Journal</i> , 2003 , 22, 3816-24	13	107
205	Agonist-promoted internalization of a ternary complex between calcitonin receptor-like receptor, receptor activity-modifying protein 1 (RAMP1), and beta-arrestin. <i>Journal of Biological Chemistry</i> , 2001 , 276, 42182-90	5.4	107
204	Cholesterol-dependent separation of the beta2-adrenergic receptor from its partners determines signaling efficacy: insight into nanoscale organization of signal transduction. <i>Journal of Biological Chemistry</i> , 2008 , 283, 24659-72	5.4	105
203	A synthetic biology approach reveals a CXCR4-G13-Rho signaling axis driving transendothelial migration of metastatic breast cancer cells. <i>Science Signaling</i> , 2011 , 4, ra60	8.8	104
202	Functional significance of oligomerization of G-protein-coupled receptors. <i>Trends in Endocrinology and Metabolism</i> , 2000 , 11, 163-8	8.8	103
201	Association of calnexin with wild type and mutant AVPR2 that causes nephrogenic diabetes insipidus. <i>Biochemistry</i> , 2001 , 40, 6766-75	3.2	102
200	Receptor activity-independent recruitment of betaarrestin2 reveals specific signalling modes. <i>EMBO Journal</i> , 2004 , 23, 3950-61	13	98

199	The BRET2/arrestin assay in stable recombinant cells: a platform to screen for compounds that interact with G protein-coupled receptors (GPCRS). <i>Journal of Receptor and Signal Transduction Research</i> , 2002 , 22, 533-41	2.6	97
198	Structural insights into binding specificity, efficacy and bias of a β AR partial agonist. <i>Nature Chemical Biology</i> , 2018 , 14, 1059-1066	11.7	96
197	Palmitoylated cysteine 341 modulates phosphorylation of the beta2-adrenergic receptor by the cAMP-dependent protein kinase. <i>Journal of Biological Chemistry</i> , 1996 , 271, 21490-7	5.4	93
196	Protein-protein interaction and not glycosylation determines the binding selectivity of heterodimers between the calcitonin receptor-like receptor and the receptor activity-modifying proteins. <i>Journal of Biological Chemistry</i> , 2001 , 276, 29575-81	5.4	93
195	Heterodimerization of beta1- and beta2-adrenergic receptor subtypes optimizes beta-adrenergic modulation of cardiac contractility. <i>Circulation Research</i> , 2005 , 97, 244-51	15.7	92
194	Bioluminescence resonance energy transfer assays reveal ligand-specific conformational changes within preformed signaling complexes containing delta-opioid receptors and heterotrimeric G proteins. <i>Journal of Biological Chemistry</i> , 2008 , 283, 15078-88	5.4	91
193	Conformational rearrangements and signaling cascades involved in ligand-biased mitogen-activated protein kinase signaling through the beta1-adrenergic receptor. <i>Molecular Pharmacology</i> , 2008 , 74, 162-72	4.3	90
192	Insights into signaling from the beta2-adrenergic receptor structure. <i>Nature Chemical Biology</i> , 2008 , 4, 397-403	11.7	87
191	Functional selectivity of natural and synthetic prostaglandin EP4 receptor ligands. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2009 , 331, 297-307	4.7	84
190	Agonist-biased signaling via proteinase activated receptor-2: differential activation of calcium and mitogen-activated protein kinase pathways. <i>Molecular Pharmacology</i> , 2009 , 76, 791-801	4.3	83
189	Blockade of protease-activated receptor-4 (PAR4) provides robust antithrombotic activity with low bleeding. <i>Science Translational Medicine</i> , 2017 , 9,	17.5	81
188	Molecular and cellular physiology of apolipoprotein A-I lipidation by the ATP-binding cassette transporter A1 (ABCA1). <i>Journal of Biological Chemistry</i> , 2004 , 279, 7384-94	5.4	80
187	Agonist stimulation increases the turnover rate of beta 2AR-bound palmitate and promotes receptor depalmitoylation. <i>Biochemistry</i> , 1996 , 35, 15923-32	3.2	80
186	A Pluridimensional View of Biased Agonism. <i>Molecular Pharmacology</i> , 2016 , 90, 587-595	4.3	79
185	Impedance responses reveal β adrenergic receptor signaling pluridimensionality and allow classification of ligands with distinct signaling profiles. <i>PLoS ONE</i> , 2012 , 7, e29420	3.7	77
184	Homo- and hetero-oligomerization of beta-arrestins in living cells. <i>Journal of Biological Chemistry</i> , 2005 , 280, 40210-5	5.4	76
183	Beta(2)-adrenergic receptor down-regulation. Evidence for a pathway that does not require endocytosis. <i>Journal of Biological Chemistry</i> , 1999 , 274, 28900-8	5.4	76
182	A novel biased allosteric compound inhibitor of parturition selectively impedes the prostaglandin F2alpha-mediated Rho/ROCK signaling pathway. <i>Journal of Biological Chemistry</i> , 2010 , 285, 25624-36	5.4	74

181	Nitric oxide modulates beta(2)-adrenergic receptor palmitoylation and signaling. <i>Journal of Biological Chemistry</i> , 1999 , 274, 26337-43	5.4	74
180	A new inhibitor of the β arrestin/AP2 endocytic complex reveals interplay between GPCR internalization and signalling. <i>Nature Communications</i> , 2017 , 8, 15054	17.4	73
179	Recovery of homogeneous and functional beta 2-adrenergic receptors from extracellular baculovirus particles. <i>Nature Biotechnology</i> , 1997 , 15, 1300-4	44.5	72
178	GPCR-OKB: the G Protein Coupled Receptor Oligomer Knowledge Base. <i>Bioinformatics</i> , 2010 , 26, 1804-57.2		71
177	Monitoring protein-protein interactions in living cells by bioluminescence resonance energy transfer (BRET). <i>Current Protocols in Neuroscience</i> , 2006 , Chapter 5, Unit 5.23	2.7	71
176	Palmitoylation of the V2 vasopressin receptor carboxyl tail enhances beta-arrestin recruitment leading to efficient receptor endocytosis and ERK1/2 activation. <i>Journal of Biological Chemistry</i> , 2003 , 278, 41541-51	5.4	70
175	Functional calcitonin gene-related peptide receptors are formed by the asymmetric assembly of a calcitonin receptor-like receptor homo-oligomer and a monomer of receptor activity-modifying protein-1. <i>Journal of Biological Chemistry</i> , 2007 , 282, 31610-20	5.4	68
174	Multiplexing of multicolor bioluminescence resonance energy transfer. <i>Biophysical Journal</i> , 2010 , 99, 4037-46	2.9	67
173	Subcellular imaging of dynamic protein interactions by bioluminescence resonance energy transfer. <i>Biophysical Journal</i> , 2008 , 94, 1001-9	2.9	66
172	Distinct subcellular localization for constitutive and agonist-modulated palmitoylation of the human delta opioid receptor. <i>Journal of Biological Chemistry</i> , 2006 , 281, 15780-9	5.4	63
171	Functional rescue of beta-adrenoceptor dimerization and trafficking by pharmacological chaperones. <i>Traffic</i> , 2009 , 10, 1019-33	5.7	62
170	β Arrestin Recruitment and Biased Agonism at Free Fatty Acid Receptor 1. <i>Journal of Biological Chemistry</i> , 2015 , 290, 21131-21140	5.4	61
169	Ligand functional selectivity and quantitative pharmacology at G protein-coupled receptors. <i>Expert Opinion on Drug Discovery</i> , 2011 , 6, 811-25	6.2	61
168	Pharmacological chaperones restore function to MC4R mutants responsible for severe early-onset obesity. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2010 , 335, 520-32	4.7	61
167	The V2 vasopressin receptor stimulates ERK1/2 activity independently of heterotrimeric G protein signalling. <i>Cellular Signalling</i> , 2007 , 19, 32-41	4.9	61
166	Simultaneous activation of the delta opioid receptor (δ OR)/sensory neuron-specific receptor-4 (SNSR-4) hetero-oligomer by the mixed bivalent agonist bovine adrenal medulla peptide 22 activates SNSR-4 but inhibits δ OR signaling. <i>Molecular Pharmacology</i> , 2006 , 70, 686-96	4.3	60
165	Unraveling G protein-coupled receptor endocytosis pathways using real-time monitoring of agonist-promoted interaction between beta-arrestins and AP-2. <i>Journal of Biological Chemistry</i> , 2007 , 282, 29089-100	5.4	59
164	Functional selectivity profiling of the angiotensin II type 1 receptor using pathway-wide BRET signaling sensors. <i>Science Signaling</i> , 2018 , 11,	8.8	59

163	Characterization of oligomeric human ATP binding cassette transporter A1. Potential implications for determining the structure of nascent high density lipoprotein particles. <i>Journal of Biological Chemistry</i> , 2004 , 279, 41529-36	5.4	58
162	Ang-(1-7) is an endogenous β arrestin-biased agonist of the AT receptor with protective action in cardiac hypertrophy. <i>Scientific Reports</i> , 2017 , 7, 11903	4.9	57
161	Development and characterization of pepducins as Gs-biased allosteric agonists. <i>Journal of Biological Chemistry</i> , 2014 , 289, 35668-84	5.4	56
160	Activation of the beta(2)-adrenergic receptor-Galpha(s) complex leads to rapid depalmitoylation and inhibition of repalmitoylation of both the receptor and Galpha(s). <i>Journal of Biological Chemistry</i> , 1999 , 274, 31014-9	5.4	55
159	Biased signaling favoring gi over β arrestin promoted by an apelin fragment lacking the C-terminal phenylalanine. <i>Journal of Biological Chemistry</i> , 2014 , 289, 24599-610	5.4	54
158	CrossTalk proposal: Weighing the evidence for Class A GPCR dimers, the evidence favours dimers. <i>Journal of Physiology</i> , 2014 , 592, 2439-41	3.9	51
157	Functional characterization of vasopressin type 2 receptor substitutions (R137H/C/L) leading to nephrogenic diabetes insipidus and nephrogenic syndrome of inappropriate antidiuresis: implications for treatments. <i>Molecular Pharmacology</i> , 2010 , 77, 836-45	4.3	50
156	Phorbol-ester-induced phosphorylation of the beta 2-adrenergic receptor decreases its coupling to Gs. <i>FEBS Letters</i> , 1991 , 279, 243-8	3.8	47
155	Biased Signaling of the Mu Opioid Receptor Revealed in Native Neurons. <i>iScience</i> , 2019 , 14, 47-57	6.1	46
154	Systematic protein-protein interaction mapping for clinically relevant human GPCRs. <i>Molecular Systems Biology</i> , 2017 , 13, 918	12.2	44
153	The palmitoylation state of the beta(2)-adrenergic receptor regulates the synergistic action of cyclic AMP-dependent protein kinase and beta-adrenergic receptor kinase involved in its phosphorylation and desensitization. <i>Journal of Neurochemistry</i> , 2001 , 76, 269-79	6	44
152	Functional characterization of a novel serotonin receptor (5-HTap2) expressed in the CNS of <i>Aplysia californica</i> . <i>Journal of Neurochemistry</i> , 2002 , 80, 335-45	6	44
151	Oligomerization of transcriptional intermediary factor 1 regulators and interaction with ZNF74 nuclear matrix protein revealed by bioluminescence resonance energy transfer in living cells. <i>Journal of Biological Chemistry</i> , 2003 , 278, 22367-73	5.4	44
150	Bioluminescence resonance energy transfer-based imaging of protein-protein interactions in living cells. <i>Nature Protocols</i> , 2019 , 14, 1084-1107	18.8	43
149	Conformational dynamics of Kir3.1/Kir3.2 channel activation via β opioid receptors. <i>Molecular Pharmacology</i> , 2013 , 83, 416-28	4.3	42
148	An evolutionarily conserved autoinhibitory molecular switch in ELMO proteins regulates Rac signaling. <i>Current Biology</i> , 2010 , 20, 2021-7	6.3	42
147	Coordinated action of NSF and PKC regulates GABAB receptor signaling efficacy. <i>EMBO Journal</i> , 2006 , 25, 2698-709	13	41
146	Subcellular distribution of GABA(B) receptor homo- and hetero-dimers. <i>Biochemical Journal</i> , 2005 , 388, 47-55	3.8	41

145	Bioinactive ACTH causing glucocorticoid deficiency. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2013 , 98, 736-42	5.6	39
144	Multimerization of Staufen1 in live cells. <i>Rna</i> , 2010 , 16, 585-97	5.8	39
143	Discovery of G Protein-Biased Dopaminergics with a Pyrazolo[1,5-a]pyridine Substructure. <i>Journal of Medicinal Chemistry</i> , 2017 , 60, 2908-2929	8.3	38
142	Evolutionary action and structural basis of the allosteric switch controlling β R functional selectivity. <i>Nature Communications</i> , 2017 , 8, 2169	17.4	38
141	Cross-talk between second messengers. <i>Annals of the New York Academy of Sciences</i> , 1990 , 594, 120-9	6.5	38
140	Vasopressin type 2 receptor V88M mutation: molecular basis of partial and complete nephrogenic diabetes insipidus. <i>Nephron Physiology</i> , 2010 , 114, p1-10		37
139	Engagement of β arrestin by transactivated insulin-like growth factor receptor is needed for V2 vasopressin receptor-stimulated ERK1/2 activation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012 , 109, E1028-37	11.5	37
138	Src-dependent phosphorylation of beta2-adaptin dissociates the beta-arrestin-AP-2 complex. <i>Journal of Cell Science</i> , 2007 , 120, 1723-32	5.3	37
137	Biochemical characterization of beta2-adrenergic receptor dimers and oligomers. <i>Biological Chemistry</i> , 2003 , 384, 117-23	4.5	37
136	G protein-coupled receptor modulation with pepducins: moving closer to the clinic. <i>Annals of the New York Academy of Sciences</i> , 2011 , 1226, 34-49	6.5	36
135	Identification and characterization of an activating F229V substitution in the V2 vasopressin receptor in an infant with NSIAD. <i>Journal of the American Society of Nephrology: JASN</i> , 2012 , 23, 1635-40	12.7	36
134	Assembly and signaling of CRLR and RAMP1 complexes assessed by BRET. <i>Biochemistry</i> , 2007 , 46, 7022-32	3.2	36
133	How GPCR Phosphorylation Patterns Orchestrate Arrestin-Mediated Signaling. <i>Cell</i> , 2020 , 183, 1813-1825	5.2	35
132	Mapping physiological G protein-coupled receptor signaling pathways reveals a role for receptor phosphorylation in airway contraction. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, 4524-9	11.5	35
131	The chemokine CXCL4 and CC2 receptors form homo- and heterooligomers that can engage their signaling G-protein effectors and β arrestin. <i>FASEB Journal</i> , 2014 , 28, 4509-23	0.9	35
130	CNIH4 interacts with newly synthesized GPCR and controls their export from the endoplasmic reticulum. <i>Traffic</i> , 2014 , 15, 383-400	5.7	35
129	A human immunodeficiency virus type 1 protease biosensor assay using bioluminescence resonance energy transfer. <i>Journal of Virological Methods</i> , 2005 , 128, 93-103	2.6	35
128	Biased agonism of clinically approved μ opioid receptor agonists and TRV130 is not controlled by binding and signaling kinetics. <i>Neuropharmacology</i> , 2020 , 166, 107718	5.5	35

127	PKA regulatory subunits mediate synergy among conserved G-protein-coupled receptor cascades. <i>Nature Communications</i> , 2011 , 2, 598	17.4	34
126	Expression, regulation, and activity of ABCA1 in human cell lines. <i>Molecular Genetics and Metabolism</i> , 2003 , 78, 265-74	3.7	34
125	Type 2 diabetes-associated variants of the MT melatonin receptor affect distinct modes of signaling. <i>Science Signaling</i> , 2018 , 11,	8.8	33
124	Receptor-regulated interaction of activator of G-protein signaling-4 and Galphai. <i>Journal of Biological Chemistry</i> , 2010 , 285, 20588-94	5.4	33
123	Purinergic Receptor Transactivation by the α -Adrenergic Receptor Increases Intracellular Ca in Nonexcitable Cells. <i>Molecular Pharmacology</i> , 2017 , 91, 533-544	4.3	32
122	Receptor sequestration in response to β -arrestin-2 phosphorylation by ERK1/2 governs steady-state levels of GPCR cell-surface expression. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, E5160-8	11.5	32
121	Regulation of the AGS3 β signaling complex by a seven-transmembrane span receptor. <i>Journal of Biological Chemistry</i> , 2010 , 285, 33949-58	5.4	32
120	Contribution of Kv1.2 voltage-gated potassium channel to D2 autoreceptor regulation of axonal dopamine overflow. <i>Journal of Biological Chemistry</i> , 2011 , 286, 9360-72	5.4	32
119	Translating biased signaling in the ghrelin receptor system into differential in vivo functions. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, E10255-E10264	11.5	31
118	Mapping the putative G protein-coupled receptor (GPCR) docking site on GPCR kinase 2: insights from intact cell phosphorylation and recruitment assays. <i>Journal of Biological Chemistry</i> , 2014 , 289, 25262-75	5.4	30
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