Arthur Christopoulos

List of Publications by Citations

346 papers	24,134 citations	77 h-index	143 g-index
395 ext. papers	27,636 ext. citations	10.1 avg, IF	7.21 L-index

#	Paper	IF	Citations
346	Functional selectivity and classical concepts of quantitative pharmacology. *Journal of Pharmacology and Experimental Therapeutics*, **2007**, 320, 1-13	4.7	870
345	Allosteric modulators of GPCRs: a novel approach for the treatment of CNS disorders. *Nature Reviews Drug Discovery*, **2009**, 8, 41-54	64.1	811
344	G protein-coupled receptor allosterism and complexing. *Pharmacological Reviews*, **2002**, 54, 323-74	22.5	740
343	Activation and allosteric modulation of a muscarinic acetylcholine receptor. *Nature*, **2013**, 504, 101-6	50.4	639
342	Allosteric modulation of G protein-coupled receptors. *Annual Review of Pharmacology and Toxicology*, **2007**, 47, 1-51	17.9	549
341	Signalling bias in new drug discovery: detection, quantification and therapeutic impact. *Nature Reviews Drug Discovery*, **2013**, 12, 205-16	64.1	535
340	THE CONCISE GUIDE TO PHARMACOLOGY 2017/18: G protein-coupled receptors. *British Journal of Pharmacology*, **2017**, 174 Suppl 1, S17-S129	8.6	517
339	Allosteric binding sites on cell-surface receptors: novel targets for drug discovery. *Nature Reviews Drug Discovery*, **2002**, 1, 198-210	64.1	514
338	International Union of Pharmacology Committee on Receptor Nomenclature and Drug Classification. XXXVIII. Update on terms and symbols in quantitative pharmacology. *Pharmacological Reviews*, **2003**, 55, 597-606	22.5	430
337	THE CONCISE GUIDE TO PHARMACOLOGY 2019/20: G protein-coupled receptors. *British Journal of Pharmacology*, **2019**, 176 Suppl 1, S21-S141	8.6	391
336	Allosteric modulation of the cannabinoid CB1 receptor. *Molecular Pharmacology*, **2005**, 68, 1484-95	4.3	371
335	A simple method for quantifying functional selectivity and agonist bias. *ACS Chemical Neuroscience*, **2012**, 3, 193-203	5.7	343
334	Neuropeptide systems as novel therapeutic targets for depression and anxiety disorders. *Trends in Pharmacological Sciences*, **2003**, 24, 580-8	13.2	335
333	Phase-plate cryo-EM structure of a class B GPCR-G-protein complex. *Nature*, **2017**, 546, 118-123	50.4	334
332	Emerging paradigms in GPCR allostery: implications for drug discovery. *Nature Reviews Drug Discovery*, **2013**, 12, 630-44	64.1	317
331	G-protein-coupled receptor Mas is a physiological antagonist of the angiotensin II type 1 receptor. *Circulation*, **2005**, 111, 1806-13	16.7	309
330	Structural basis for modulation of a G-protein-coupled receptor by allosteric drugs. *Nature*, **2013**, 503, 295-9	50.4	303

329	Allosteric GPCR modulators: taking advantage of permissive receptor pharmacology. *Trends in Pharmacological Sciences*, **2007**, 28, 382-9	13.2	291
328	Muscarinic acetylcholine receptors: novel opportunities for drug development. *Nature Reviews Drug Discovery*, **2014**, 13, 549-60	64.1	245
327	Mechanisms of signalling and biased agonism in G protein-coupled receptors. *Nature Reviews Molecular Cell Biology*, **2018**, 19, 638-653	48.7	244
326	Novel receptor partners and function of receptor activity-modifying proteins. *Journal of Biological Chemistry*, **2003**, 278, 3293-7	5.4	244
325	THE CONCISE GUIDE TO PHARMACOLOGY 2017/18: Overview. *British Journal of Pharmacology*, **2017**, 174 Suppl 1, S1-S16	8.6	231
324	THE CONCISE GUIDE TO PHARMACOLOGY 2019/20: Introduction and Other Protein Targets. *British Journal of Pharmacology*, **2019**, 176 Suppl 1, S1-S20	8.6	218
323	Allosteric modulation of G protein-coupled receptors: a pharmacological perspective. *Neuropharmacology*, **2011**, 60, 24-35	5.5	218
322	Crystal structures of the M1 and M4 muscarinic acetylcholine receptors. *Nature*, **2016**, 531, 335-40	50.4	211
321	Relative affinity of angiotensin peptides and novel ligands at AT1 and AT2 receptors. *Clinical Science*, **2011**, 121, 297-303	6.5	209
320	The role of kinetic context in apparent biased agonism at GPCRs. *Nature Communications*, **2016**, 7, 10842	17.4	206
319	Phase-plate cryo-EM structure of a biased agonist-bound human GLP-1 receptor-Gs complex. *Nature*, **2018**, 555, 121-125	50.4	190
318	Structure of the adenosine-bound human adenosine A receptor-G complex. *Nature*, **2018**, 558, 559-563	50.4	188
317	Allosteric modulation of the muscarinic M4 receptor as an approach to treating schizophrenia. *Proceedings of the National Academy of Sciences of the United States of America*, **2008**, 105, 10978-83	11.5	185
316	Allosteric modulation of seven transmembrane spanning receptors: theory, practice, and opportunities for central nervous system drug discovery. *Journal of Medicinal Chemistry*, **2012**, 55, 1445-64	8.3	184
315	Pharmacological discrimination of calcitonin receptor: receptor activity-modifying protein complexes. *Molecular Pharmacology*, **2005**, 67, 1655-65	4.3	177
314	Allosteric ligands of the glucagon-like peptide 1 receptor (GLP-1R) differentially modulate endogenous and exogenous peptide responses in a pathway-selective manner: implications for drug screening. *Molecular Pharmacology*, **2010**, 78, 456-65	4.3	170
313	Structure of the Adenosine A Receptor Reveals the Basis for Subtype Selectivity. *Cell*, **2017**, 168, 867-877	36.13	167
312	Quantification of ligand bias for clinically relevant 2-adrenergic receptor ligands: implications for drug taxonomy. *Molecular Pharmacology*, **2014**, 85, 492-509	4.3	165

311	Allosteric Modulation as a Unifying Mechanism for Receptor Function and Regulation. *Cell*, **2016**, 166, 1084-1102	56.2	164
310	Assessing the distribution of parameters in models of ligand-receptor interaction: to log or not to log. *Trends in Pharmacological Sciences*, **1998**, 19, 351-7	13.2	160
309	Polar transmembrane interactions drive formation of ligand-specific and signal pathway-biased family B G protein-coupled receptor conformations. *Proceedings of the National Academy of Sciences of the United States of America*, **2013**, 110, 5211-6	11.5	158
308	International Union of Basic and Clinical Pharmacology. XC. multisite pharmacology: recommendations for the nomenclature of receptor allosterism and allosteric ligands. *Pharmacological Reviews*, **2014**, 66, 918-47	22.5	156
307	Structural insights into G-protein-coupled receptor allostery. *Nature*, **2018**, 559, 45-53	50.4	154
306	Advances in G protein-coupled receptor allostery: from function to structure. *Molecular Pharmacology*, **2014**, 86, 463-78	4.3	149
305	A novel mechanism of G protein-coupled receptor functional selectivity. Muscarinic partial agonist McN-A-343 as a bitopic orthosteric/allosteric ligand. *Journal of Biological Chemistry*, **2008**, 283, 29312-21	5.4	147
304	Cryo-EM structure of the active, G-protein complexed, human CGRP receptor. *Nature*, **2018**, 561, 492-497	50.4	141
303	The best of both worlds? Bitopic orthosteric/allosteric ligands of g protein-coupled receptors. *Annual Review of Pharmacology and Toxicology*, **2012**, 52, 153-78	17.9	133
302	Bridging the gap: bitopic ligands of G-protein-coupled receptors. *Trends in Pharmacological Sciences* , **2013**, 34, 59-66	13.2	132
301	Identification of orthosteric and allosteric site mutations in M2 muscarinic acetylcholine receptors that contribute to ligand-selective signaling bias. *Journal of Biological Chemistry*, **2010**, 285, 7459-74	5.4	130
300	Molecular mechanisms of action and in vivo validation of an M4 muscarinic acetylcholine receptor allosteric modulator with potential antipsychotic properties. *Neuropsychopharmacology*, **2010**, 35, 855-69	8.7	130
299	Novel Allosteric Modulators of G Protein-coupled Receptors. *Journal of Biological Chemistry*, **2015**, 290, 19478-88	5.4	128
298	RNA editing of the serotonin 5HT2C receptor and its effects on cell signalling, pharmacology and brain function **2008**, 119, 7-23		128
297	Microglial activation and progressive brain changes in schizophrenia. *British Journal of Pharmacology*, **2016**, 173, 666-80	8.6	126
296	Dualsteric GPCR targeting: a novel route to binding and signaling pathway selectivity. *FASEB Journal*, **2009**, 23, 442-50	0.9	123
295	Positive and negative allosteric modulators promote biased signaling at the calcium-sensing receptor. *Endocrinology*, **2012**, 153, 1232-41	4.8	122
294	Critical role for the second extracellular loop in the binding of both orthosteric and allosteric G protein-coupled receptor ligands. *Journal of Biological Chemistry*, **2007**, 282, 25677-86	5.4	122

293	Receptor activity-modifying proteins differentially modulate the G protein-coupling efficiency of amylin receptors. *Endocrinology*, **2008**, 149, 5423-31	4.8	113
292	Inhibition of tumor angiogenesis and growth by a small-molecule multi-FGF receptor blocker with allosteric properties. *Cancer Cell*, **2013**, 23, 477-88	24.3	110
291	Allosteric modulators of the adenosine A1 receptor: synthesis and pharmacological evaluation of 4-substituted 2-amino-3-benzoylthiophenes. *Journal of Medicinal Chemistry*, **2009**, 52, 4543-7	8.3	108
290	Allosteric agonists of 7TM receptors: expanding the pharmacological toolbox. *Trends in Pharmacological Sciences*, **2006**, 27, 475-81	13.2	106
289	The Extracellular Surface of the GLP-1 Receptor Is a Molecular Trigger for Biased Agonism. *Cell*, **2016**, 165, 1632-1643	56.2	102
288	Biased Agonism and Biased Allosteric Modulation at the CB1 Cannabinoid Receptor. *Molecular Pharmacology*, **2015**, 88, 368-79	4.3	101
287	Structure-function studies of allosteric agonism at M2 muscarinic acetylcholine receptors. *Molecular Pharmacology*, **2007**, 72, 463-76	4.3	98
286	Endogenous allosteric modulators of G protein-coupled receptors. *Journal of Pharmacology and Experimental Therapeutics*, **2015**, 353, 246-60	4.7	97
285	New insights into the function of M4 muscarinic acetylcholine receptors gained using a novel allosteric modulator and a DREADD (designer receptor exclusively activated by a designer drug). *Molecular Pharmacology*, **2008**, 74, 1119-31	4.3	96
284	A new mechanism of allostery in a G protein-coupled receptor dimer. *Nature Chemical Biology*, **2014**, 10, 745-52	11.7	95
283	Probing the molecular mechanism of interaction between 4-n-butyl-1-[4-(2-methylphenyl)-4-oxo-1-butyl]-piperidine (AC-42) and the muscarinic M(1) receptor: direct pharmacological evidence that AC-42 is an allosteric agonist. *Molecular Pharmacology*, **2006**, 69, 236-46	4.3	94
282	Ligand-Dependent Modulation of G Protein Conformation Alters Drug Efficacy. *Cell*, **2016**, 167, 739-749.e11	56.2	94
281	Probe dependence in the allosteric modulation of a G protein-coupled receptor: implications for detection and validation of allosteric ligand effects. *Molecular Pharmacology*, **2012**, 81, 41-52	4.3	93
280	Allosteric modulation of muscarinic acetylcholine receptors. *Current Neuropharmacology*, **2007**, 5, 157-67	7.6	93
279	A Monod-Wyman-Changeux mechanism can explain G protein-coupled receptor (GPCR) allosteric modulation. *Journal of Biological Chemistry*, **2012**, 287, 650-659	5.4	91
278	A kinetic view of GPCR allostery and biased agonism. *Nature Chemical Biology*, **2017**, 13, 929-937	11.7	89
277	Discovery of antiandrogen activity of nonsteroidal scaffolds of marketed drugs. *Proceedings of the National Academy of Sciences of the United States of America*, **2007**, 104, 11927-32	11.5	89
276	Allosteric interactions at muscarinic cholinoceptors. *Clinical and Experimental Pharmacology and Physiology*, **1998**, 25, 185-94	3	85

275	Cellular Signaling Mechanisms for Muscarinic Acetylcholine Receptors		82
274	Biased agonism at G protein-coupled receptors: the promise and the challenges--a medicinal chemistry perspective. *Medicinal Research Reviews*, **2014**, 34, 1286-330	14.4	81
273	Characterization of serotonin 5-HT2C receptor signaling to extracellular signal-regulated kinases 1 and 2. *Journal of Neurochemistry*, **2005**, 93, 1603-15	6	80
272	RAMPs: 5 years on, where to now?. *Trends in Pharmacological Sciences*, **2003**, 24, 596-601	13.2	79
271	Determinants of 1-piperidinecarboxamide, N-[2-[[5-amino-l-[[4-(4-pyridinyl)-l-piperazinyl]carbonyl]pentyl]amino]-1-[(3,5-dibromo-4-hydroxyphenyl)methyl]-2-oxoeth (BIBN4096BS) affinity for calcitonin gene-related peptide and amylin receptors--the role of receptor activity modifying protein 1. *Molecular Pharmacology*, **2006**, 70, 1984-91	4.3	78
270	"Ins and outs" of seven-transmembrane receptor signalling to ERK. *Trends in Endocrinology and Metabolism*, **2005**, 16, 26-33	8.8	78
269	Biased Agonism of Endogenous Opioid Peptides at the Opioid Receptor. *Molecular Pharmacology*, **2015**, 88, 335-46	4.3	76
268	DREADD Agonist 21 Is an Effective Agonist for Muscarinic-Based DREADDs and. *ACS Pharmacology and Translational Science*, **2018**, 1, 61-72	5.9	76
267	Allosteric modulation of G protein-coupled receptors. *Current Pharmaceutical Design*, **2004**, 10, 2003-13	3.3	76
266	Separation of on-target efficacy from adverse effects through rational design of a bitopic adenosine receptor agonist. *Proceedings of the National Academy of Sciences of the United States of America*, **2014**, 111, 4614-9	11.5	74
265	Second extracellular loop of human glucagon-like peptide-1 receptor (GLP-1R) has a critical role in GLP-1 peptide binding and receptor activation. *Journal of Biological Chemistry*, **2012**, 287, 3642-58	5.4	74
264	Activation of the GLP-1 receptor by a non-peptidic agonist. *Nature*, **2020**, 577, 432-436	50.4	74
263	A structure-activity analysis of biased agonism at the dopamine D2 receptor. *Journal of Medicinal Chemistry*, **2013**, 56, 9199-221	8.3	72
262	Orthosteric/allosteric bitopic ligands: going hybrid at GPCRs. *Molecular Interventions: Pharmacological Perspectives From Biology, Chemistry and Genomics*, **2009**, 9, 125-35		72
261	Reversible and specific extracellular antagonism of receptor-histidine kinase signaling. *Journal of Biological Chemistry*, **2002**, 277, 6247-53	5.4	72
260	Amylin receptors: molecular composition and pharmacology. *Biochemical Society Transactions*, **2004** , 32, 865-7	5.1	71
259	Small-molecule-biased formyl peptide receptor agonist compound 17b protects against myocardial ischaemia-reperfusion injury in mice. *Nature Communications*, **2017**, 8, 14232	17.4	70
258	The state of GPCR research in 2004. *Nature Reviews Drug Discovery*, **2004**, 3, 575, 577-626	64.1	70

257	Polymorphism and ligand dependent changes in human glucagon-like peptide-1 receptor (GLP-1R) function: allosteric rescue of loss of function mutation. *Molecular Pharmacology*, **2011**, 80, 486-97	4.3	69
256	Accelerated structure-based design of chemically diverse allosteric modulators of a muscarinic G protein-coupled receptor. *Proceedings of the National Academy of Sciences of the United States of America*, **2016**, 113, E5675-84	11.5	69
255	Procalcitonin has bioactivity at calcitonin receptor family complexes: potential mediator implications in sepsis. *Critical Care Medicine*, **2008**, 36, 1637-40	1.4	67
254	Differential activation and modulation of the glucagon-like peptide-1 receptor by small molecule ligands. *Molecular Pharmacology*, **2013**, 83, 822-34	4.3	66
253	Identification of molecular phenotypes and biased signaling induced by naturally occurring mutations of the human calcium-sensing receptor. *Endocrinology*, **2012**, 153, 4304-16	4.8	66
252	Allosteric modulation of the calcium-sensing receptor by gamma-glutamyl peptides: inhibition of PTH secretion, suppression of intracellular cAMP levels, and a common mechanism of action with L-amino acids. *Journal of Biological Chemistry*, **2011**, 286, 8786-97	5.4	65
251	Allosteric modulators of G-protein-coupled receptors. *Current Opinion in Pharmacology*, **2003**, 3, 551-6	5.1	65
250	Allostery and Biased Agonism at Class B G Protein-Coupled Receptors. *Chemical Reviews*, **2017**, 117, 111[illegible]838	[illegible]	64
249	Quantification of functional selectivity at the human [illegible]1A)-adrenoceptor. *Molecular Pharmacology*, **2011**, 79, 298-307	4.3	64
248	Complexing receptor pharmacology: modulation of family B G protein-coupled receptor function by RAMPs. *Annals of the New York Academy of Sciences*, **2006**, 1070, 90-104	6.5	64
247	Allosteric modulation of endogenous metabolites as an avenue for drug discovery. *Molecular Pharmacology*, **2012**, 82, 281-90	4.3	63
246	Impact of clinically relevant mutations on the pharmacoregulation and signaling bias of the calcium-sensing receptor by positive and negative allosteric modulators. *Endocrinology*, **2013**, 154, 1105-16	4.8	63
245	Tyrosine sulfation of chemokine receptor CCR2 enhances interactions with both monomeric and dimeric forms of the chemokine monocyte chemoattractant protein-1 (MCP-1). *Journal of Biological Chemistry*, **2013**, 288, 10024-10034	5.4	63
244	Modulation of the glucagon-like peptide-1 receptor signaling by naturally occurring and synthetic flavonoids. *Journal of Pharmacology and Experimental Therapeutics*, **2011**, 336, 540-50	4.7	63
243	Rules of Engagement: GPCRs and G Proteins. *ACS Pharmacology and Translational Science*, **2018**, 1, 73-83	5.9	62
242	Allosteric targeting of receptor tyrosine kinases. *Nature Biotechnology*, **2014**, 32, 1113-20	44.5	61
241	Ligand functional selectivity and quantitative pharmacology at G protein-coupled receptors. *Expert Opinion on Drug Discovery*, **2011**, 6, 811-25	6.2	61
240	Structure-activity relationships of privileged structures lead to the discovery of novel biased ligands at the dopamine D[illegible]receptor. *Journal of Medicinal Chemistry*, **2014**, 57, 4924-39	8.3	60

239	Structural determinants of allosteric agonism and modulation at the M4 muscarinic acetylcholine receptor: identification of ligand-specific and global activation mechanisms. *Journal of Biological Chemistry*, **2010**, 285, 19012-21	5.4	58
238	Identification of N-terminal receptor activity-modifying protein residues important for calcitonin gene-related peptide, adrenomedullin, and amylin receptor function. *Molecular Pharmacology*, **2008**, 74, 1059-71	4.3	58
237	Biased allosteric modulation at the CaS receptor engendered by structurally diverse calcimimetics. *British Journal of Pharmacology*, **2015**, 172, 185-200	8.6	57
236	Orthosteric and allosteric modes of interaction of novel selective agonists of the M1 muscarinic acetylcholine receptor. *Molecular Pharmacology*, **2010**, 78, 94-104	4.3	57
235	Towards a structural understanding of allosteric drugs at the human calcium-sensing receptor. *Cell Research*, **2016**, 26, 574-92	24.7	56
234	Sustainable Pharmacy Education in the Time of COVID-19. *American Journal of Pharmaceutical Education*, **2020**, 84, ajpe8088	2.5	56
233	Allostery in GPCRs: PMWCRrevisited. *Trends in Biochemical Sciences*, **2011**, 36, 663-72	10.3	55
232	Development of M1 mAChR allosteric and bitopic ligands: prospective therapeutics for the treatment of cognitive deficits. *ACS Chemical Neuroscience*, **2013**, 4, 1026-48	5.7	54
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230	Recent advances in understanding GLP-1R (glucagon-like peptide-1 receptor) function. *Biochemical Society Transactions*, **2013**, 41, 172-9	5.1	53
229	The assessment of antagonist potency under conditions of transient response kinetics. *European Journal of Pharmacology*, **1999**, 382, 217-27	5.3	53
228	Prolonged calcitonin receptor signaling by salmon, but not human calcitonin, reveals ligand bias. *PLoS ONE*, **2014**, 9, e92042	3.7	53
227	Structural basis of receptor sulfotyrosine recognition by a CC chemokine: the N-terminal region of CCR3 bound to CCL11/eotaxin-1. *Structure*, **2014**, 22, 1571-81	5.2	51
226	Synthesis and pharmacological profiling of analogues of benzyl quinolone carboxylic acid (BQCA) as allosteric modulators of the M1 muscarinic receptor. *Journal of Medicinal Chemistry*, **2013**, 56, 5151-72	8.3	49
225	Measurements of ligand bias and functional affinity. *Nature Reviews Drug Discovery*, **2013**, 12, 483	64.1	49
224	Impact of species variability and Probe-dependenceRon the detection and in vivo validation of allosteric modulation at the M4 muscarinic acetylcholine receptor. *British Journal of Pharmacology*, **2011**, 162, 1659-70	8.6	49
223	Distinct receptor activity-modifying protein domains differentially modulate interaction with calcitonin receptors. *Molecular Pharmacology*, **2006**, 69, 1984-9	4.3	49
222	Novel GPCR paradigms at the Ebpioid receptor. *British Journal of Pharmacology*, **2015**, 172, 287-96	8.6	48

221	Modulating receptor function through RAMPs: can they represent drug targets in themselves?. *Drug Discovery Today*, **2009**, 14, 413-9	8.8	48
220	Application of a kinetic model to the apparently complex behavior of negative and positive allosteric modulators of muscarinic acetylcholine receptors. *Journal of Pharmacology and Experimental Therapeutics*, **2004**, 308, 1062-72	4.7	48
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218	Discovery, synthesis, and molecular pharmacology of selective positive allosteric modulators of the δ-opioid receptor. *Journal of Medicinal Chemistry*, **2015**, 58, 4220-9	8.3	46
217	Toward a Structural Understanding of Class B GPCR Peptide Binding and Activation. *Molecular Cell*, **2020**, 77, 656-668.e5	17.6	46
216	Molecular determinants of allosteric modulation at the M1 muscarinic acetylcholine receptor. *Journal of Biological Chemistry*, **2014**, 289, 6067-79	5.4	46
215	THE CONCISE GUIDE TO PHARMACOLOGY 2021/22: G protein-coupled receptors. *British Journal of Pharmacology*, **2021**, 178 Suppl 1, S27-S156	8.6	46
214	G-protein-coupled receptor allosterism: the promise and the problem(s). *Biochemical Society Transactions*, **2004**, 32, 873-7	5.1	45
213	Systematic analysis of factors influencing observations of biased agonism at the mu-opioid receptor. *Biochemical Pharmacology*, **2016**, 113, 70-87	6	44
212	Quantification of adenosine A(1) receptor biased agonism: Implications for drug discovery. *Biochemical Pharmacology*, **2016**, 99, 101-12	6	44
211	Small molecule allosteric modulation of the glucagon-like Peptide-1 receptor enhances the insulinotropic effect of oxyntomodulin. *Molecular Pharmacology*, **2012**, 82, 1066-73	4.3	44
210	Synthesis and characterization of novel 2-amino-3-benzoylthiophene derivatives as biased allosteric agonists and modulators of the adenosine A(1) receptor. *Journal of Medicinal Chemistry*, **2012**, 55, 2367-75	8.3	44
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208	Modulation of cannabinoid agonist binding by 5-HT in the rat cerebellum. *Journal of Neurochemistry* , **2002**, 80, 1095-102	6	44
207	Proposed Mode of Binding and Action of Positive Allosteric Modulators at Opioid Receptors. *ACS Chemical Biology*, **2016**, 11, 1220-9	4.9	43
206	A Hydrogen-Bonded Polar Network in the Core of the Glucagon-Like Peptide-1 Receptor Is a Fulcrum for Biased Agonism: Lessons from Class B Crystal Structures. *Molecular Pharmacology*, **2016**, 89, 335-47	4.3	43
205	Molecular mechanisms of bitopic ligand engagement with the M1 muscarinic acetylcholine receptor. *Journal of Biological Chemistry*, **2014**, 289, 23817-37	5.4	43
204	The effect of social isolation on rat brain expression of genes associated with endocannabinoid signaling. *Brain Research*, **2010**, 1343, 153-67	3.7	43

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200	Structure and Dynamics of Adrenomedullin Receptors AM and AM Reveal Key Mechanisms in the Control of Receptor Phenotype by Receptor Activity-Modifying Proteins. *ACS Pharmacology and Translational Science*, **2020**, 3, 263-284	5.9	42
199	Determination of adenosine A1 receptor agonist and antagonist pharmacology using Saccharomyces cerevisiae: implications for ligand screening and functional selectivity. *Journal of Pharmacology and Experimental Therapeutics*, **2009**, 331, 277-86	4.7	42
198	The generation of nitric oxide by G protein-coupled receptors. *Life Sciences*, **1999**, 64, 1-15	6.8	42
197	Dominant Negative G Proteins Enhance Formation and Purification of Agonist-GPCR-G Protein Complexes for Structure Determination. *ACS Pharmacology and Translational Science*, **2018**, 1, 12-20	5.9	41
196	Differential GLP-1R Binding and Activation by Peptide and Non-peptide Agonists. *Molecular Cell*, **2020**, 80, 485-500.e7	17.6	41
195	Discovery of a Novel Class of Negative Allosteric Modulator of the Dopamine D2 Receptor Through Fragmentation of a Bitopic Ligand. *Journal of Medicinal Chemistry*, **2015**, 58, 6819-43	8.3	40
194	Ligand-Independent Adenosine A2B Receptor Constitutive Activity as a Promoter of Prostate Cancer Cell Proliferation. *Journal of Pharmacology and Experimental Therapeutics*, **2016**, 357, 36-44	4.7	40
193	Mechanistic insights into allosteric structure-function relationships at the M1 muscarinic acetylcholine receptor. *Journal of Biological Chemistry*, **2014**, 289, 33701-11	5.4	40
192	Design and receptor interactions of obligate dimeric mutant of chemokine monocyte chemoattractant protein-1 (MCP-1). *Journal of Biological Chemistry*, **2012**, 287, 14692-702	5.4	40
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190	M1 muscarinic allosteric modulators slow prion neurodegeneration and restore memory loss. *Journal of Clinical Investigation*, **2017**, 127, 487-499	15.9	39
189	Extracellular Loop 2 of the Adenosine A1 Receptor Has a Key Role in Orthosteric Ligand Affinity and Agonist Efficacy. *Molecular Pharmacology*, **2016**, 90, 703-714	4.3	39
188	Structure-based discovery of selective positive allosteric modulators of antagonists for the M muscarinic acetylcholine receptor. *Proceedings of the National Academy of Sciences of the United States of America*, **2018**, 115, E2419-E2428	11.5	38
187	A critical role for the short intracellular C terminus in receptor activity-modifying protein function. *Molecular Pharmacology*, **2006**, 70, 1750-60	4.3	38
186	Structural Basis for Binding of Allosteric Drug Leads in the Adenosine A Receptor. *Scientific Reports*, **2018**, 8, 16836	4.9	38

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183	Towards tissue-specific pharmacology: insights from the calcium-sensing receptor as a paradigm for GPCR (patho)physiological bias. *Trends in Pharmacological Sciences*, **2015**, 36, 215-25	13.2	36
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180	Interaction of anandamide with the M(1) and M(4) muscarinic acetylcholine receptors. *Brain Research*, **2001**, 915, 70-8	3.7	35
179	Murine GPRC6A Mediates Cellular Responses to L-Amino Acids, but Not Osteocalcin Variants. *PLoS ONE*, **2016**, 11, e0146846	3.7	35
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5	The International Union of Basic and Clinical Pharmacology Committee on Receptor Nomenclature and Drug Classification (NC-IUPHAR): Relevance to pharmacology today and challenges for the future. *Proceedings for Annual Meeting of the Japanese Pharmacological Society*, **2018**, WCP2018, PO2-8-10	0
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3	Adenosine A1 Receptor Biased Agonism: A Novel Approach for Cardioprotective Therapeutics. *FASEB Journal*, **2013**, 27, lb617	0.9
2	Measurement of Ligand-G Protein-Coupled Receptor Interactions1-29	
1	Second Messenger Assays for G Protein-Coupled Receptors: cAMP, Ca2+, Inositol Phosphates, ERK1/231-52	