

David R Poyner

List of Publications by Year in descending order

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128
papers

5,360
citations

94381

37
h-index

98753

67
g-index

142
all docs

142
docs citations

142
times ranked

3796
citing authors

#	ARTICLE	IF	CITATIONS
1	International Union of Pharmacology. XXXII. The Mammalian Calcitonin Gene-Related Peptides, Adrenomedullin, Amylin, and Calcitonin Receptors. <i>Pharmacological Reviews</i> , 2002, 54, 233-246.	7.1	714
2	Update on the pharmacology of calcitonin/CGRP family of peptides: IUPHAR Review 25. <i>British Journal of Pharmacology</i> , 2018, 175, 3-17.	2.7	269
3	GPCR modulation by RAMPs. , 2006, 109, 173-197.		213
4	Pharmacological Discrimination of Calcitonin Receptor: Receptor Activity-Modifying Protein Complexes. <i>Molecular Pharmacology</i> , 2005, 67, 1655-1665.	1.0	196
5	G-protein coupled receptor solubilization and purification for biophysical analysis and functional studies, in the total absence of detergent. <i>Bioscience Reports</i> , 2015, 35, .	1.1	150
6	Ionic Aggregate Structure in Ionomer Melts: Effect of Molecular Architecture on Aggregates and the Ionomer Peak. <i>Journal of the American Chemical Society</i> , 2012, 134, 574-587.	6.6	148
7	The pharmacology of Adrenomedullin 2/Intermedin. <i>British Journal of Pharmacology</i> , 2012, 166, 110-120.	2.7	124
8	Regulation of signal transduction by calcitonin gene-related peptide receptors. <i>Trends in Pharmacological Sciences</i> , 2010, 31, 476-483.	4.0	121
9	CL/RAMP2 and CL/RAMP3 produce pharmacologically distinct adrenomedullin receptors: a comparison of effects of adrenomedullin22-52 , CGRP8-37 and BIBN4096BS. <i>British Journal of Pharmacology</i> , 2003, 140, 477-486.	2.7	120
10	Structural Basis for Receptor Activity-Modifying Protein-Dependent Selective Peptide Recognition by a G Protein-Coupled Receptor. <i>Molecular Cell</i> , 2015, 58, 1040-1052.	4.5	112
11	Surfactant-free purification of membrane proteins with intact native membrane environment. <i>Biochemical Society Transactions</i> , 2011, 39, 813-818.	1.6	96
12	Dynamics of Model Ionomer Melts of Various Architectures. <i>Macromolecules</i> , 2012, 45, 8097-8108.	2.2	92
13	Direct Comparisons of X-ray Scattering and Atomistic Molecular Dynamics Simulations for Precise Acid Copolymers and Ionomers. <i>Macromolecules</i> , 2015, 48, 1210-1220.	2.2	89
14	Effect of Polymer Architecture and Ionic Aggregation on the Scattering Peak in Model Ionomers. <i>Physical Review Letters</i> , 2011, 106, 127801.	2.9	86
15	The Pharmacology of Adrenomedullin Receptors and Their Relationship to CGRP Receptors. <i>Journal of Molecular Neuroscience</i> , 2004, 22, 105-114.	1.1	83
16	Pharmacological characterization of a receptor for calcitonin gene-related peptide on rat, L6 myocytes. <i>British Journal of Pharmacology</i> , 1992, 105, 441-447.	2.7	74
17	International Union of Pharmacology. LXIX. Status of the Calcitonin Gene-Related Peptide Subtype 2 Receptor. <i>Pharmacological Reviews</i> , 2008, 60, 143-145.	7.1	72
18	Receptor Activity-modifying Protein-directed G Protein Signaling Specificity for the Calcitonin Gene-related Peptide Family of Receptors. <i>Journal of Biological Chemistry</i> , 2016, 291, 21925-21944.	1.6	72

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19	Receptor activity modifying proteins (<scp>RAMPs</scp>) interact with the <scp>VPAC</scp>₂ receptor and <scp>CRF</scp>₁ receptors and modulate their function. British Journal of Pharmacology, 2013, 168, 822-834.	2.7	71
20	Atomistic Simulations Predict a Surprising Variety of Morphologies in Precise Ionomers. ACS Macro Letters, 2013, 2, 206-210.	2.3	67
21	Comparison of the expression of calcitonin receptor-like receptor (CRLR) and receptor activity modifying proteins (RAMPs) with CGRP and adrenomedullin binding in cell lines. British Journal of Pharmacology, 2002, 136, 784-792.	2.7	66
22	Calcitonin and calcitonin receptor-like receptors: common themes with family B GPCRs?. British Journal of Pharmacology, 2012, 166, 51-65.	2.7	63
23	Modulation of Glucagon Receptor Pharmacology by Receptor Activity-modifying Protein-2 (RAMP2). Journal of Biological Chemistry, 2015, 290, 23009-23022.	1.6	61
24	A Key Role for Transmembrane Prolines in Calcitonin Receptor-Like Receptor Agonist Binding and Signalling: Implications for Family B G-Protein-Coupled Receptors. Molecular Pharmacology, 2005, 67, 20-31.	1.0	59
25	Altering the ribosomal subunit ratio in yeast maximizes recombinant protein yield. Microbial Cell Factories, 2009, 8, 10.	1.9	57
26	Microbial expression systems for membrane proteins. Methods, 2018, 147, 3-39.	1.9	57
27	Structure and Dynamics of Coarse-Grained Ionomer Melts in an External Electric Field. Macromolecules, 2015, 48, 809-818.	2.2	56
28	Modulating receptor function through RAMPs: can they represent drug targets in themselves?. Drug Discovery Today, 2009, 14, 413-419.	3.2	55
29	Adrenomedullin and calcitonin gene-related peptide receptors in endocrine-related cancers: opportunities and challenges. Endocrine-Related Cancer, 2010, 18, C1-C14.	1.6	54
30	A comparison of SMA (styrene maleic acid) and DIBMA (di-isobutylene maleic acid) for membrane protein purification. Biochimica Et Biophysica Acta - Biomembranes, 2020, 1862, 183281.	1.4	52
31	Structure-activity relationships for Î±-calcitonin gene-related peptide. British Journal of Pharmacology, 2013, 170, 1308-1322.	2.7	51
32	A comparison of the actions of BIBN4096BS and CGRP8-37 on CGRP and adrenomedullin receptors expressed on SK-N-MC, L6, Col 29 and Rat 2 cells. British Journal of Pharmacology, 2002, 137, 80-86.	2.7	47
33	Characterization of receptors for calcitonin gene-related peptide and adrenomedullin on the guinea-pig vas deferens. British Journal of Pharmacology, 1999, 126, 1276-1282.	2.7	44
34	Investigating <scp>G</scp> protein signalling bias at the glucagon-like peptide-1 receptor in yeast. British Journal of Pharmacology, 2014, 171, 3651-3665.	2.7	44
35	An allosteric role for receptor activity-modifying proteins in defining GPCR pharmacology. Cell Discovery, 2016, 2, 16012.	3.1	44
36	Similarity between class A and class B G-protein-coupled receptors exemplified through calcitonin gene-related peptide receptor modelling and mutagenesis studies. Journal of the Royal Society Interface, 2013, 10, 20120846.	1.5	43

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37	Functional and Biophysical Analysis of the C-Terminus of the CGRP-Receptor; a Family B GPCR. <i>Biochemistry</i> , 2008, 47, 8434-8444.	1.2	40
38	GPCR-styrene maleic acid lipid particles (GPCR-SMALPs): their nature and potential. <i>Biochemical Society Transactions</i> , 2016, 44, 619-623.	1.6	40
39	Non-peptidic antagonists of the CGRP receptor, BIBN4096BS and MK-0974, interact with the calcitonin receptor-like receptor via methionine-42 and RAMP1 via tryptophan-74. <i>Biochemical and Biophysical Research Communications</i> , 2010, 391, 437-442.	1.0	39
40	Expression and purification of recombinant G protein-coupled receptors: A review. <i>Protein Expression and Purification</i> , 2020, 167, 105524.	0.6	38
41	Single molecule binding of a ligand to a G-protein-coupled receptor in real time using fluorescence correlation spectroscopy, rendered possible by nano-encapsulation in styrene maleic acid lipid particles. <i>Nanoscale</i> , 2020, 12, 11518-11525.	2.8	37
42	Extracellular loops 1 and 3 and their associated transmembrane regions of the calcitonin receptor-like receptor are needed for CGRP receptor function. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2011, 1813, 1906-1916.	1.9	36
43	Receptor Activity-modifying Proteins 2 and 3 Generate Adrenomedullin Receptor Subtypes with Distinct Molecular Properties. <i>Journal of Biological Chemistry</i> , 2016, 291, 11657-11675.	1.6	36
44	Receptor activity-modifying proteins; multifunctional G protein-coupled receptor accessory proteins. <i>Biochemical Society Transactions</i> , 2016, 44, 568-573.	1.6	36
45	Structural determinants for binding to CGRP receptors expressed by human SK-N-MC and Col 29 cells: studies with chimeric and other peptides. <i>British Journal of Pharmacology</i> , 1998, 124, 1659-1666.	2.7	34
46	Novel Peptide Antagonists of Adrenomedullin and Calcitonin Gene-Related Peptide Receptors: Identification, Pharmacological Characterization, and Interactions with Position 74 in Receptor Activity-Modifying Protein 1/3. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2009, 331, 513-521.	1.3	34
47	Synthesis and iron binding studies of myo-inositol 1,2,3-trisphosphate and (\pm)-myo-inositol 1,2-bisphosphate, and iron binding studies of all myo-inositol tetrakisphosphates. <i>Carbohydrate Research</i> , 1996, 282, 81-99.	1.1	33
48	Diverse Functional Motifs within the Three Intracellular Loops of the CGRP1Receptor. <i>Biochemistry</i> , 2006, 45, 12976-12985.	1.2	32
49	Receptor activity-modifying protein-dependent effects of mutations in the calcitonin receptor-like receptor: implications for adrenomedullin and calcitonin gene-related peptide pharmacology. <i>British Journal of Pharmacology</i> , 2014, 171, 772-788.	2.7	32
50	Multiple receptors for calcitonin gene-related peptide and amylin on guinea pig ileum and vas deferens. <i>British Journal of Pharmacology</i> , 1996, 117, 1362-1368.	2.7	31
51	Structure-activity relationships of the C-terminus of calcitonin gene-related peptide: key roles of alanine ⁵ and threonine ⁶ in receptor activation. <i>British Journal of Pharmacology</i> , 2014, 171, 415-426.	2.7	31
52	Calcitonin Receptor N-Glycosylation Enhances Peptide Hormone Affinity by Controlling Receptor Dynamics. <i>Journal of Molecular Biology</i> , 2020, 432, 1996-2014.	2.0	31
53	Receptor activity-modifying protein dependent and independent activation mechanisms in the coupling of calcitonin gene-related peptide and adrenomedullin receptors to Gs. <i>Biochemical Pharmacology</i> , 2017, 142, 96-110.	2.0	30
54	Desensitisation of adrenomedullin and CGRP receptors. <i>Regulatory Peptides</i> , 2003, 112, 139-145.	1.9	29

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55	The pharmacology of CGRP-responsive receptors in cultured and transfected cells. <i>Peptides</i> , 2004, 25, 2019-2026.	1.2	29
56	Evidence that Interaction between Conserved Residues in Transmembrane Helices 2, 3, and 7 Are Crucial for Human VPAC ₁ Receptor Activation. <i>Molecular Pharmacology</i> , 2010, 78, 394-401.	1.0	29
57	A key role for transmembrane prolines in calcitonin receptor-like receptor agonist binding and signalling: implications for family B G-protein-coupled receptors. <i>Molecular Pharmacology</i> , 2005, 67, 20-31.	1.0	29
58	Ligand binding and activation of the CGRP receptor. <i>Biochemical Society Transactions</i> , 2007, 35, 729-732.	1.6	28
59	The role of ECL2 in CGRP receptor activation: a combined modelling and experimental approach. <i>Journal of the Royal Society Interface</i> , 2013, 10, 20130589.	1.5	27
60	Percolated Ionic Aggregate Morphologies and Decoupled Ion Transport in Precise Sulfonated Polymers Synthesized by Ring-Opening Metathesis Polymerization. <i>Macromolecules</i> , 2020, 53, 8960-8973.	2.2	27
61	A Polymorphism in the Growth Hormone (GH)-Releasing Hormone (GHRH) Receptor Gene Is Associated with Elevated Response to GHRH by Human Pituitary Somatotrophinomas in Vitro. <i>Biochemical and Biophysical Research Communications</i> , 2000, 275, 33-36.	1.0	25
62	The role of the 8-18 helix of CGRP8-37 in mediating high affinity binding to CGRP receptors; coulombic and steric interactions. <i>British Journal of Pharmacology</i> , 2003, 138, 325-332.	2.7	25
63	The Second Intracellular Loop of the Calcitonin Gene-related Peptide Receptor Provides Molecular Determinants for Signal Transduction and Cell Surface Expression. <i>Journal of Biological Chemistry</i> , 2006, 281, 1644-1651.	1.6	25
64	h <i>CALCRL</i> mutation causes autosomal recessive nonimmune hydrops fetalis with lymphatic dysplasia. <i>Journal of Experimental Medicine</i> , 2018, 215, 2339-2353.	4.2	25
65	The first synthesis and iron binding studies of the natural product, myo-inositol 1,2,3-trisphosphate. <i>Tetrahedron Letters</i> , 1995, 36, 2125-2128.	0.7	24
66	Structure-Function Analysis of RAMP1 by Alanine Mutagenesis. <i>Biochemistry</i> , 2009, 48, 198-205.	1.2	24
67	Ligand-induced conformational changes in a SMALP-encapsulated GPCR. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2020, 1862, 183235.	1.4	24
68	Chain and Ion Dynamics in Precise Polyethylene Ionomers. <i>Macromolecules</i> , 2019, 52, 7939-7950.	2.2	23
69	Structure-function analysis of amino acid 74 of human RAMP1 and RAMP3 and its role in peptide interactions with adrenomedullin and calcitonin gene-related peptide receptors. <i>Peptides</i> , 2011, 32, 1060-1067.	1.2	22
70	The selectivity and structural determinants of peptide antagonists at the CGRP receptor of rat, L6 myocytes. <i>British Journal of Pharmacology</i> , 1997, 121, 1000-1004.	2.7	21
71	Calcitonin gene-related peptide, adrenomedullin and flushing. <i>Maturitas</i> , 2009, 64, 104-108.	1.0	21
72	Characterization and effects on cAMP accumulation of adrenomedullin and calcitonin gene-related peptide (CGRP) receptors in dissociated rat spinal cord cell culture. <i>British Journal of Pharmacology</i> , 2006, 148, 459-468.	2.7	20

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73	Mapping interaction sites within the N-terminus of the calcitonin gene-related peptide receptor; the role of residues 23â€“60 of the calcitonin receptor-like receptor. <i>Peptides</i> , 2010, 31, 170-176.	1.2	20
74	Photoaffinity Cross-Linking and Unnatural Amino Acid Mutagenesis Reveal Insights into Calcitonin Gene-Related Peptide Binding to the Calcitonin Receptor-like Receptor/Receptor Activity-Modifying Protein 1 (CLR/RAMP1) Complex. <i>Biochemistry</i> , 2018, 57, 4915-4922.	1.2	20
75	Quantifying Single-Ion Transport in Percolated Ionic Aggregates of Polymer Melts. <i>ACS Macro Letters</i> , 2020, 9, 583-587.	2.3	20
76	RAMPs and CGRP Receptors. <i>Advances in Experimental Medicine and Biology</i> , 2012, 744, 13-24.	0.8	19
77	G-Protein-Coupled Receptors: from Structural Insights to Functional Mechanisms. <i>Biochemical Society Transactions</i> , 2013, 41, 135-136.	1.6	19
78	Functional recombinant protein is present in the pre-induction phases of <i>Pichia pastoris</i> cultures when grown in bioreactors, but not shake-flasks. <i>Microbial Cell Factories</i> , 2014, 13, 127.	1.9	19
79	The evolution of acidic and ionic aggregates in ionomers during microsecond simulations. <i>Journal of Chemical Physics</i> , 2019, 150, 064901.	1.2	19
80	Characterization of the Structure of RAMP1 by Mutagenesis and Molecular Modeling. <i>Biophysical Journal</i> , 2006, 91, 662-669.	0.2	18
81	Secretin family (Class B) G proteinâ€“coupled receptors â€“ from molecular to clinical perspectives. <i>British Journal of Pharmacology</i> , 2012, 166, 1-3.	2.7	18
82	Interactions between RAMP2 and CRF receptors: The effect of receptor subtypes, splice variants and cell context. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2019, 1861, 997-1003.	1.4	16
83	CGRP, adrenomedullin and adrenomedullin 2 display endogenous GPCR agonist bias in primary human cardiovascular cells. <i>Communications Biology</i> , 2021, 4, 776.	2.0	15
84	The role of the extracellular loops of the CGRP receptor, a family B GPCR. <i>Biochemical Society Transactions</i> , 2012, 40, 433-437.	1.6	14
85	The activation of the CGRP receptor. <i>Biochemical Society Transactions</i> , 2013, 41, 180-184.	1.6	14
86	The effects of RAMPs upon cell signalling. <i>Molecular and Cellular Endocrinology</i> , 2017, 449, 12-20.	1.6	14
87	Synthesis and evaluation of N1-substituted-3-propyl-1,4-benzodiazepine-2-ones as cholecystokinin (CCK2) receptor ligands. <i>Journal of Pharmacy and Pharmacology</i> , 2010, 54, 827-834.	1.2	13
88	Functional characterization of two human receptor activity-modifying protein 3 variants. <i>Peptides</i> , 2010, 31, 579-584.	1.2	11
89	RAMPs as Drug Targets. <i>Advances in Experimental Medicine and Biology</i> , 2012, 744, 61-74.	0.8	10
90	Receptor component protein, an endogenous allosteric modulator of family B G protein coupled receptors. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2020, 1862, 183174.	1.4	10

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91	Differences in SMA-like polymer architecture dictate the conformational changes exhibited by the membrane protein rhodopsin encapsulated in lipid nano-particles. <i>Nanoscale</i> , 2021, 13, 13519-13528.	2.8	10
92	Functional solubilization of the β_2 -adrenoceptor using diisobutylene maleic acid. <i>IScience</i> , 2021, 24, 103362.	1.9	8
93	Structure-Function Analysis of RAMP1-RAMP3 Chimeras. <i>Biochemistry</i> , 2010, 49, 522-531.	1.2	7
94	Antifoams: the overlooked additive?. <i>Pharmaceutical Bioprocessing</i> , 2014, 2, 103-106.	0.8	7
95	Understanding the molecular functions of the second extracellular loop (ECL2) of the calcitonin gene-related peptide (CGRP) receptor using a comprehensive mutagenesis approach. <i>Molecular and Cellular Endocrinology</i> , 2017, 454, 39-49.	1.6	7
96	Functional characterisation of G protein-coupled receptors. <i>Methods</i> , 2018, 147, 213-220.	1.9	7
97	The Preclinical Pharmacology of BIBN4096BS, a CGRP Antagonist. <i>Cardiovascular Drug Reviews</i> , 2005, 23, 31-42.	4.4	6
98	A potent fluorescent calcitonin gene-related peptide analogue enables visualization of receptor internalization. <i>Peptide Science</i> , 2019, 111, e24126.	1.0	6
99	Calcitonin receptors (version 2019.4) in the IUPHAR/BPS Guide to Pharmacology Database. <i>IUPHAR/BPS Guide To Pharmacology CITE</i> , 2019, 2019, .	0.2	6
100	[13] Inositol phospholipids and phosphates for investigation of intact cell phospholipase C substrates and products. <i>Methods in Enzymology</i> , 1991, 197, 149-158.	0.4	5
101	A polymorphism in the growth hormone-releasing hormone receptor gene: Clinical significance?. <i>Regulatory Peptides</i> , 2002, 108, 125-128.	1.9	5
102	Stimulation of chloride secretion and adenylate cyclase secretion in human colonic derived cell lines by calcitonin gene-related peptide. <i>Biochemical Society Transactions</i> , 1993, 21, 434S-434S.	1.6	4
103	Family Resemblances? Ligand Binding and Activation of Family A and B G-Protein-Coupled Receptors. <i>Biochemical Society Transactions</i> , 2007, 35, 707-708.	1.6	4
104	CGRP receptor antagonists: design and screening. <i>Expert Opinion on Drug Discovery</i> , 2009, 4, 1253-1265.	2.5	4
105	Relative Antagonism of Mutants of the CGRP Receptor Extracellular Loop 2 Domain (ECL2) Using a Truncated Competitive Antagonist (CGRP ³⁷): Evidence for the Dual Involvement of ECL2 in the Two-Domain Binding Model. <i>Biochemistry</i> , 2017, 56, 3877-3880.	1.2	4
106	The Structure of the CGRP and Related Receptors. <i>Handbook of Experimental Pharmacology</i> , 2018, 255, 23-36.	0.9	4
107	The Use of Site-Directed Mutagenesis to Study GPCRs. <i>Methods in Molecular Biology</i> , 2011, 746, 85-98.	0.4	4
108	Determining the Effects of Differential Expression of GRKs and β_2 -arrestins on CLR-RAMP Agonist Bias. <i>Frontiers in Physiology</i> , 2022, 13, 840763.	1.3	4

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109	Use of the [35S]GTP γ S Binding Assay to Determine Ligand Efficacy at G Protein-Coupled Receptors. , 0, , 53-68.		3
110	The Role of ICL1 and H8 in Class B1 GPCRs; Implications for Receptor Activation. <i>Frontiers in Endocrinology</i> , 2021, 12, 792912.	1.5	3
111	Stimulation of phosphatidylinositol-3-kinase by insulin-like growth factor 1 and other agonists. <i>Biochemical Society Transactions</i> , 1992, 20, 140S-140S.	1.6	2
112	Metabolism of myo-inositol pentakisphosphates in mammalian brain. <i>Biochemical Society Transactions</i> , 1992, 20, 149S-149S.	1.6	2
113	Use of Fluorescence Correlation Spectroscopy to Study the Diffusion of G Protein-coupled Receptors. , 0, , 169-195.		2
114	The perils of using the human genome sequence: lessons from CALCRL. <i>Trends in Pharmacological Sciences</i> , 2001, 22, 272.	4.0	1
115	Functional Solubilisation of the β 2-Adrenoceptor (β 2AR) Using Diisobutylene Maleic Acid (DIBMA). <i>SSRN Electronic Journal</i> , 0, , .	0.4	1
116	Calcitonin Receptor N-glycosylation Enhances Peptide Hormone Affinity by Controlling Receptor Dynamics. <i>FASEB Journal</i> , 2020, 34, 1-1.	0.2	1
117	Combinatorial solid phase synthesis of multiply substituted 1,4-benzodiazepines and affinity studies on the CCK2 receptor (part 1). <i>Drug Design and Discovery</i> , 2002, 18, 9-21.	0.3	1
118	Regulation of membrane potential by G-protein-coupled receptors in L6 skeletal myocytes: the role of second messengers. <i>Biochemical Society Transactions</i> , 1993, 21, 433S-433S.	1.6	0
119	Molecular modelling of the human formyl peptide receptor. <i>Biochemical Society Transactions</i> , 1995, 23, 96S-96S.	1.6	0
120	Ramp. , 2018, , 4433-4438.		0
121	Calcium Calcitonin Gene-Related Peptide and Adrenomedullin Receptors. , 2021, , 562-570.		0
122	Ramp. , 2016, , 1-5.		0
123	Appendix: Site-Directed Mutagenesis and Chimeras. , 0, , 275-288.		0
124	Homology Modelling of G Protein-Coupled Receptors. , 0, , 251-273.		0
125	Second Messenger Assays for G Protein-Coupled Receptors: cAMP, Ca ²⁺ , Inositol Phosphates, ERK1/2. , 0, , 31-52.		0
126	Quantitative Imaging of Receptor Trafficking. , 0, , 69-83.		0

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127	Production of Recombinant G Protein-Coupled Receptor in Yeast for Structural and Functional Analysis. , 0, , 85-110.		0
128	Using Intramolecular Fluorescence Resonance Energy Transfer to Study Receptor Conformation. , 0, , 133-146.		0