Colin W Taylor

List of Publications by Year
in descending order

206 papers	9,324 citations	43741 48 h-index	59438 82 g-index
231 all docs	231 docs citations	231 times ranked	8153 citing authors

#	Article	IF	Citations
1	Spontaneous calcium release from inositol trisphosphate-sensitive calcium stores. Nature, 1991, 352, 241-244.	36.2	376
2	IP3 Receptors: Toward Understanding Their Activation. Cold Spring Harbor Perspectives in Biology, 2010, 2, a004010-a004010.	5.4	244
3	A non-capacitative pathway activated by arachidonic acid is the major Ca2+entry mechanism in rat A7r5 smooth muscle cells stimulated with low concentrations of vasopressin. Journal of Physiology, 1999, 517, 121-134.	2.9	190
4	Ca2+ Entry Through Plasma Membrane IP3 Receptors. Science, 2006, 313, 229-233.	20.9	172
5	How Does Intracellular Ca2+ Oscillate: By Chance or by the Clock?. Biophysical Journal, 2008, 94, 2404-2411.	0.5	170
6	Paclitaxel Affects Cytosolic Calcium Signals by Opening the Mitochondrial Permeability Transition Pore. Journal of Biological Chemistry, 2002, 277, 6504-6510.	3.5	169
7	Clustering of InsP3 receptors by InsP3 retunes their regulation by InsP3 and Ca2+. Nature, 2009, 458, 655-659.	36.2	165
8	Structural and functional conservation of key domains in InsP3 and ryanodine receptors. Nature, 2012, 483, 108-112.	36.2	163
9	An NAADP-gated Two-pore Channel Targeted to the Plasma Membrane Uncouples Triggering from Amplifying Ca2+ Signals. Journal of Biological Chemistry, 2010, 285, 38511-38516.	3.5	156
10	Pharmacological analysis of intracellular Ca2+ signalling: problems and pitfalls. Trends in Pharmacological Sciences, 1998, 19, 370-375.	8.6	155
11	Structure and function of inositol triphosphate receptors. , 1991, 51, 97-137.		154
12	Inositol trisphosphate receptors: Ca2+-modulated intracellular Ca2+ channels. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 1998, 1436, 19-33.	2.6	153
13	Cooperative activation of IP3 receptors by sequential binding of IP3 and Ca2+ safeguards against spontaneous activity. Current Biology, 1997, 7, 510-518.	4.0	152
14	IP3 receptors: the search for structure. Trends in Biochemical Sciences, 2004, 29, 210-219.	7.5	145
15	Lateral inhibition of inositol 1,4,5-trisphosphate receptors by cytosolic Ca2+. Current Biology, 1999, 9, 1115-1118.	4.0	140
16	Red fluorescent genetically encoded Ca2+ indicators for use in mitochondria and endoplasmic reticulum. Biochemical Journal, 2014, 464, 13-22.	3.8	136
17	Receptor coupling to polyphosphoinositide turnover: a parallel with the adenylate cyclase system. Trends in Pharmacological Sciences, 1986, 7, 238-242.	8.6	134
18	IP3 Receptors Preferentially Associate with ER-Lysosome Contact Sites and Selectively Deliver Ca2+ to Lysosomes. Cell Reports, 2018, 25, 3180-3193.e7.	6.3	133

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19	Ca2+ signals initiate at immobile IP3 receptors adjacent to ER-plasma membrane junctions. Nature Communications, 2017, 8, 1505.	13.2	127
20	Structure and Function of IP₃Receptors. Cold Spring Harbor Perspectives in Biology, 2019, 11, a035063.	5.4	126
21	Inositol 1,4,5â€trisphosphate receptors and their protein partners as signalling hubs. Journal of Physiology, 2016, 594, 2849-2866.	2.9	125
22	Lysosomes shape Ins(1,4,5)<i>P</i>3-evoked Ca2+ signals by selectively sequestering Ca2+ released from the endoplasmic reticulum. Journal of Cell Science, 2013, 126, 289-300.	2.1	123
23	Identification of Intracellular and Plasma Membrane Calcium Channel Homologues in Pathogenic Parasites. PLoS ONE, 2011, 6, e26218.	2.5	110
24	Calcium and inositol 1,4,5-triphosphate receptors: a complex relationship. Trends in Biochemical Sciences, 1992, 17, 403-407.	7.5	105
25	Reliable Encoding of Stimulus Intensities Within Random Sequences of Intracellular Ca ²⁺ Spikes. Science Signaling, 2014, 7, ra59.	5.1	105
26	A guanine nucleotide-dependent regulatory protein couples substance P receptors to phospholipase C in rat parotid gland. Biochemical and Biophysical Research Communications, 1986, 136, 362-368.	2.2	98
27	Selective coupling of type 6 adenylyl cyclase with type 2 IP3 receptors mediates direct sensitization of IP3 receptors by cAMP. Journal of Cell Biology, 2008, 183, 297-311.	5.2	95
28	Domain organization of the type 1 inositol 1,4,5-trisphosphate receptor as revealed by single-particle analysis. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 3936-3941.	7.6	88
29	A novel role for calmodulin: Ca2+-independent inhibition of type-1 inositol trisphosphate receptors. Biochemical Journal, 1998, 334, 447-455.	3.8	82
30	Calcium signalling: IP3 rises againâ€¦ and again. Current Biology, 2001, 11, R352-R355.	4.0	82
31	Sigma1 receptors inhibit store-operated Ca2+ entry by attenuating coupling of STIM1 to Orai1. Journal of Cell Biology, 2016, 213, 65-79.	5.2	81
32	Ca2+-calmodulin inhibits Ca2+ release mediated by type-1, -2 and -3 inositol trisphosphate receptors. Biochemical Journal, 2000, 345, 357-363.	3.8	80
33	Controlling Calcium Entry. Cell, 2002, 111, 767-769.	27.8	79
34	Regulation of IP3 receptors by cyclic AMP. Cell Calcium, 2017, 63, 48-52.	3.2	75
35	Disaccharide Polyphosphates Based upon Adenophostin A Activate Hepatic d-myo-Inositol 1,4,5-Trisphosphate Receptors. Biochemistry, 1997, 36, 12780-12790.	2.6	71
36	Synthesis of Potent Agonists of the d-myo-Inositol 1,4,5-Trisphosphate Receptor Based on Clustered Disaccharide Polyphosphate Analogues of Adenophostin A. Journal of Medicinal Chemistry, 2000, 43, 3295-3303.	6.6	71

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37	Reciprocal regulation of capacitative and non-capacitative Ca2+ entry in A7r5 vascular smooth muscle cells: only the latter operates during receptor activation. Biochemical Journal, 2002, 362, 13-21.	3.8	71
38	IP ₃ receptors: Take four IP ₃ to open. Science Signaling, 2016, 9, pe1.	5.1	71
39	Synthetic partial agonists reveal key steps in IP3 receptor activation. Nature Chemical Biology, 2009, 5, 631-639.	8.0	69
40	Chemerin Elicits Potent Constrictor Actions via Chemokineâ€Like Receptor 1 (CMKLR1), not Gâ€Proteinâ€Coupled Receptor 1 (GPR1), in Human and Rat Vasculature. Journal of the American Heart Association, 2016, 5, .	3.9	68
41	Rapid Activation and Partial Inactivation of Inositol Trisphosphate Receptors by Inositol Trisphosphateâ€. Biochemistry, 1998, 37, 11524-11533.	2.6	67
42	IP3 receptors and Ca2+ entry. Biochimica Et Biophysica Acta - Molecular Cell Research, 2019, 1866, 1092-1100.	4.1	61
43	The endo-lysosomal system as an NAADP-sensitive acidic Ca2+ store: Role for the two-pore channels. Cell Calcium, 2011, 50, 157-167.	3.2	60
44	hGAAP promotes cell adhesion and migration via the stimulation of store-operated Ca2+ entry and calpain 2. Journal of Cell Biology, 2013, 202, 699-713.	5.2	60
45	Identification and Analysis of Putative Homologues of Mechanosensitive Channels in Pathogenic Protozoa. PLoS ONE, 2013, 8, e66068.	2.5	60
46	Membrane Topology of NAADP-sensitive Two-pore Channels and Their Regulation by N-linked Glycosylation. Journal of Biological Chemistry, 2011, 286, 9141-9149.	3.5	58
47	Structural Determinants of Adenophostin A Activity at Inositol Trisphosphate Receptors. Molecular Pharmacology, 2001, 59, 1206-1215.	2.3	55
48	Nitric oxide co-ordinates the activities of the capacitative and non-capacitative Ca2+-entry pathways regulated by vasopressin. Biochemical Journal, 2003, 370, 439-448.	3.8	54
49	Choline Is an Intracellular Messenger Linking Extracellular Stimuli to IP3-Evoked Ca2+ Signals through Sigma-1 Receptors. Cell Reports, 2019, 26, 330-337.e4.	6.3	52
50	DL-Myo-inositol 1,4,5-trisphosphorothioate mobilizes intracellular calcium in Swiss 3T3 cells and Xenopus oocytes. Biochemical and Biophysical Research Communications, 1988, 150, 626-632.	2.2	51
51	Timescales of IP3-Evoked Ca2+ Spikes Emerge from Ca2+ Puffs Only at the Cellular Level. Biophysical Journal, 2011, 101, 2638-2644.	0.5	49
52	Type 3 inositol trisphosphate receptors in RINm5F cells are biphasically regulated by cytosolic Ca2+ and mediate quantal Ca2+ mobilization. Biochemical Journal, 1999, 344, 55-60.	3.8	47
53	Selective recognition of inositol phosphates by subtypes of the inositol trisphosphate receptor. Biochemical Journal, 2001, 355, 59-69.	3.8	46
54	Regulation of Inositol 1,4,5-Trisphosphate Receptors by cAMP Independent of cAMP-dependent Protein Kinase. Journal of Biological Chemistry, 2010, 285, 12979-12989.	3.5	46

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55	Reciprocal regulation of capacitative and non-capacitative Ca2+ entry in A7r5 vascular smooth muscle cells: only the latter operates during receptor activation. Biochemical Journal, 2002, 362, 13.	3.8	45
56	Effect of an oxytocin receptor antagonist and rho kinase inhibitor on the [Ca++]i sensitivity of human myometrium. American Journal of Obstetrics and Gynecology, 2004, 190, 222-228.	1.3	45
57	IP₃ receptors: some lessons from DT40 cells. Immunological Reviews, 2009, 231, 23-44.	6.1	45
58	Spatial organization of intracellular Ca2+ signals. Seminars in Cell and Developmental Biology, 2012, 23, 172-180.	5.4	44
59	Differential Distribution, Clustering, and Lateral Diffusion of Subtypes of the Inositol 1,4,5-Trisphosphate Receptor. Journal of Biological Chemistry, 2011, 286, 23378-23387.	3.5	41
60	Synthesis and Ca2+-Mobilizing Activity of Purine-Modified Mimics of Adenophostin A:Â A Model for the Adenophostinâ€"Ins(1,4,5)P3Receptor Interaction. Journal of Medicinal Chemistry, 2003, 46, 4860-4871.	6.6	40
61	Selective recognition of inositol phosphates by subtypes of the inositol trisphosphate receptor. Biochemical Journal, 2001, 355, 59.	3.8	39
62	Store-operated Ca2+ entry: a STIMulating stOrai. Trends in Biochemical Sciences, 2006, 31, 597-601.	7.5	39
63	Ca²⁺ Channels on the Move. Biochemistry, 2009, 48, 12062-12080.	2.6	39
64	All three IP3 receptor subtypes generate Ca2+ puffs, the universal building blocks of IP3-evoked Ca2+ signals. Journal of Cell Science, 2018, 131, .	2.1	39
65	A genetically encoded toolkit of functionalized nanobodies against fluorescent proteins for visualizing and manipulating intracellular signalling. BMC Biology, 2019, 17, 41.	3.9	39
66	IP3 receptors and store-operated Ca2+ entry: a license to fill. Current Opinion in Cell Biology, 2019, 57, 1-7.	5.6	39
67	Targeting of Inositol 1,4,5-Trisphosphate Receptors to the Endoplasmic Reticulum by Multiple Signals within Their Transmembrane Domains. Journal of Biological Chemistry, 2004, 279, 23797-23805.	3.5	38
68	CaBP1, a neuronal Ca ² ⁺ sensor protein, inhibits inositol trisphosphate receptors by clamping intersubunit interactions. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 8507-8512.	7.6	38
69	Binding of Inositol 1,4,5-trisphosphate (IP₃) and Adenophostin A to the N-Terminal region of the IP₃Receptor: Thermodynamic Analysis Using Fluorescence Polarization with a Novel IP₃Receptor Ligand. Molecular Pharmacology, 2010, 77, 995-1004.	2.3	37
70	Rapid Recycling of Ca2+ between IP3-Sensitive Stores and Lysosomes. PLoS ONE, 2014, 9, e111275.	2.5	37
71	Structural organization of signalling to and from IP3 receptors. Biochemical Society Transactions, 2014, 42, 63-70.	3.4	36
72	Microtubule-Associated Protein EB3 Regulates IP3 Receptor Clustering and Ca2+ Signaling in Endothelial Cells. Cell Reports, 2015, 12, 79-89.	6.3	36

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73	Golgi Anti-apoptotic Proteins Are Highly Conserved Ion Channels That Affect Apoptosis and Cell Migration. Journal of Biological Chemistry, 2015, 290, 11785-11801.	3.5	36
74	Rapid kinetic measurements of 45Ca2+ mobilization reveal that Ins(2,4,5)P3 is a partial agonist at hepatic InsP3 receptors. Biochemical Journal, 1997, 321, 573-576.	3.8	35
75	Expression and Distribution of InsP3 Receptor Subtypes in Proliferating Vascular Smooth Muscle Cells. Biochemical and Biophysical Research Communications, 2000, 273, 907-912.	2.2	35
76	Counting Functional Inositol 1,4,5-Trisphosphate Receptors into the Plasma Membrane. Journal of Biological Chemistry, 2008, 283, 751-755.	3.5	35
77	Mutant IP3 receptors attenuate store-operated Ca2+ entry by destabilizing STIMâ€“Orai interactions in <i>Drosophila</i> neurons. Journal of Cell Science, 2016, 129, 3903-3910.	2.1	35
78	Reliable measurement of free Ca2+ concentrations in the ER lumen using Mag-Fluo-4. Cell Calcium, 2020, 87, 102188.	3.2	35
79	Ca2+-calmodulin inhibits Ca2+ release mediated by type-1, -2 and -3 inositol trisphosphate receptors. Biochemical Journal, 2000, 345, 357.	3.8	34
80	Rapid functional assays of recombinant IP3 receptors. Cell Calcium, 2005, 38, 45-51.	3.2	33
81	Parathyroid Hormone Controls the Size of the Intracellular Ca2+ Stores Available to Receptors Linked to Inositol Trisphosphate Formation. Journal of Biological Chemistry, 2000, 275, 1807-1813.	3.5	32
82	Human and Viral Golgi Anti-apoptotic Proteins (GAAPs) Oligomerize via Different Mechanisms and Monomeric GAAP Inhibits Apoptosis and Modulates Calcium. Journal of Biological Chemistry, 2013, 288, 13057-13067.	3.5	32
83	Effective Glucose Uptake by Human Astrocytes Requires Its Sequestration in the Endoplasmic Reticulum by Glucose-6-Phosphatase-Î². Current Biology, 2018, 28, 3481-3486.e4.	4.0	32
84	KRAP tethers IP3 receptors to actin and licenses them to evoke cytosolic Ca2+ signals. Nature Communications, 2021, 12, 4514.	13.2	32
85	Receptor-regulated Ca2+ entry: secret pathway or secret messenger?. Trends in Pharmacological Sciences, 1990, 11, 269-271.	8.6	31
86	Simplification of adenophostin A defines a minimal structure for potent glucopyranoside-based mimics of 1,4,5-trisphosphate. Bioorganic and Medicinal Chemistry Letters, 1999, 9, 453-458.	2.3	31
87	Different phospholipase-C-coupled receptors differentially regulate capacitative and non-capacitative Ca2+ entry in A7r5 cells. Biochemical Journal, 2005, 389, 821-829.	3.8	31
88	Calcium regulation in vertebrates: An overview. Comparative Biochemistry and Physiology A, Comparative Physiology, 1985, 82, 249-255.	0.6	30
89	Incremental Ca2+ mobilization by inositol trisphosphate receptors is unlikely to be mediated by their desensitization or regulation by luminal or cytosolic Ca2+. Biochemical Journal, 1997, 326, 215-220.	3.8	30
90	Determinants of adenophostin A binding to inositol trisphosphate receptors. Biochemical Journal, 2002, 367, 113-120.	3.8	29

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91	Identification and Analysis of Cation Channel Homologues in Human Pathogenic Fungi. PLoS ONE, 2012, 7, e42404.	2.5	29
92	Dimers of d-myo-Inositol 1,4,5-Trisphosphate:â€‰ Design, Synthesis, and Interaction with Ins(1,4,5)P3 Receptors. Bioconjugate Chemistry, 2004, 15, 278-289.	3.8	28
93	Endogenous signalling pathways and caged IP3 evoke Ca2+ puffs at the same abundant immobile intracellular sites. Journal of Cell Science, 2017, 130, 3728-3739.	2.1	28
94	Remodeling of ERâ€“plasma membrane contact sites but not STIM1 phosphorylation inhibits Ca ²⁺ influx in mitosis. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 10392-10401.	7.6	28
95	GPN does not release lysosomal Ca2+ but evokes Ca2+ release from the ER by increasing the cytosolic pH independently of cathepsin C. Journal of Cell Science, 2019, 132, .	2.1	28
96	Interactions of Inositol 1,4,5-Trisphosphate (IP3) Receptors with Synthetic Poly(ethylene glycol)-linked Dimers of IP3 Suggest Close Spacing of the IP3-binding Sites. Journal of Biological Chemistry, 2002, 277, 40290-40295.	3.5	27
97	Activation of IP3 receptors by synthetic bisphosphate ligands. Chemical Communications, 2009, , 1204.	4.2	27
98	Oxytocin increases the [Ca²⁺]_isensitivity of human myometrium during the falling phase of phasic contractions. American Journal of Physiology - Endocrinology and Metabolism, 1999, 276, E345-E351.	3.7	26
99	Acyclophostin: A Ribose-Modified Analog of Adenophostin A with High Affinity for Inositol 1,4,5-Trisphosphate Receptors and pH-Dependent Efficacy. Molecular Pharmacology, 1999, 55, 109-117.	2.3	26
100	Synthesis of adenophostin A. Tetrahedron: Asymmetry, 2000, 11, 397-403.	1.7	26
101	Extracellular heavy-metal ions stimulate Ca2+ mobilization in hepatocytes. Biochemical Journal, 1999, 339, 555.	3.8	25
102	Adenophostin A and analogues modified at the adenine moiety: synthesis, conformational analysis and biological activity. Organic and Biomolecular Chemistry, 2005, 3, 245.	2.9	25
103	Adenophostins. Current Topics in Membranes, 2010, 66, 209-233.	2.0	25
104	Stimulation of Inositol 1,4,5-Trisphosphate (IP3) Receptor Subtypes by Analogues of IP3. PLoS ONE, 2013, 8, e54877.	2.5	25
105	Receptor regulation of calcium entry. Trends in Pharmacological Sciences, 1987, 8, 79-80.	8.6	24
106	Fast Biphasic Regulation of Type 3 Inositol Trisphosphate Receptors by Cytosolic Calcium. Journal of Biological Chemistry, 2002, 277, 17571-17579.	3.5	24
107	Cyclic AMP directs IP3-evoked Ca2+ signalling to different intracellular Ca2+ stores. Journal of Cell Science, 2013, 126, 2305-13.	2.1	24
108	From parathyroid hormone to cytosolic Ca2+ signals. Biochemical Society Transactions, 2012, 40, 147-152.	3.4	23

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109	Bicyclic Analogues ofd-myo-Inositol 1,4,5-Trisphosphate Related to Adenophostin A:Â Synthesis and Biological Activity. Journal of Medicinal Chemistry, 2001, 44, 2108-2117.	6.6	22
110	A novel Ca2+-induced Ca2+ release mechanism mediated by neither inositol trisphosphate nor ryanodine receptors. Biochemical Journal, 2002, 361, 605-611.	3.8	22
111	Synthesis of Adenophostin A Analogues Conjugating an Aromatic Group at the 5â€˜-Position as Potent IP3 Receptor Ligands. Journal of Medicinal Chemistry, 2006, 49, 5750-5758.	6.6	22
112	Contribution of Phosphates and Adenine to the Potency of Adenophostins at the IP₃ Receptor: Synthesis of All Possible Bisphosphates of Adenophostin A. Journal of Medicinal Chemistry, 2012, 55, 1706-1720.	6.6	22
113	Subtype-selective regulation of IP3 receptors by thimerosal via cysteine residues within the IP3-binding core and suppressor domain. Biochemical Journal, 2013, 451, 177-184.	3.8	22
114	Calcium Regulation in Insects. Advances in Insect Physiology, 1987, , 155-186.	3.8	21
115	Differentiation of BC3H1 smooth muscle cells changes the bivalent cation selectivity of the capacitative Ca2+ entry pathway. Biochemical Journal, 1996, 316, 759-764.	3.8	21
116	Different receptors use inositol trisphosphate to mobilize Ca2+ from different intracellular pools. Biochemical Journal, 2000, 351, 683-686.	3.8	21
117	Functional properties of Drosophila inositol trisphosphate receptors. Biochemical Journal, 2001, 359, 435-441.	3.8	21
118	Xylopyranoside-based agonists of d-myo-inositol 1,4,5-trisphosphate receptors: synthesis and effect of stereochemistry on biological activity. Carbohydrate Research, 2001, 332, 53-66.	2.4	21
119	Targeting and clustering of IP3 receptors: Key determinants of spatially organized Ca2+ signals. Chaos, 2009, 19, 037102.	2.6	21
120	P2Y receptor subtypes evoke different Ca2+ signals in cultured aortic smooth muscle cells. Purinergic Signalling, 2012, 8, 763-777.	2.5	21
121	Cyclic AMP Recruits a Discrete Intracellular Ca 2+ Store by Unmasking Hypersensitive IP 3 Receptors. Cell Reports, 2017, 18, 711-722.	6.3	21
122	Prostaglandin F2Î± increases the sensitivity of the contractile proteins to Ca2+ in human myometrium. American Journal of Obstetrics and Gynecology, 2006, 195, 1404-1406.	1.3	20
123	Selective inhibition of histamine-evoked Ca2+ signals by compartmentalized cAMP in human bronchial airway smooth muscle cells. Cell Calcium, 2018, 71, 53-64.	3.2	20
124	Contribution of the Adenine Base to the Activity of Adenophostin A Investigated Using a Base Replacement Strategy. Journal of Medicinal Chemistry, 2000, 43, 4278-4287.	6.6	19
125	Targeting and Retention of Type 1 Ryanodine Receptors to the Endoplasmic Reticulum*. Journal of Biological Chemistry, 2007, 282, 23096-23103.	3.5	19
126	2-Position Base-Modified Analogues of Adenophostin A as High-Affinity Agonists of the d-myo-Inositol Trisphosphate Receptor:â€‰ In Vitro Evaluation and Molecular Modeling. Journal of Organic Chemistry, 2008, 73, 1682-1692.	3.3	19

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127	Three-dimensional structure of recombinant typeÂ1 inositol 1,4,5-trisphosphate receptor. Biochemical Journal, 2010, 428, 483-489.	3.8	19
128	Intracellular Ca2+ channels â€" A growing community. Molecular and Cellular Endocrinology, 2012, 353, 21-28.	3.3	19
129	<scp>ATP</scp> evokes Ca²⁺ signals in cultured foetal human cortical astrocytes entirely through G proteinâ€coupled P2Y receptors. Journal of Neurochemistry, 2017, 142, 876-885.	4.0	19
130	C-Glycoside based mimics of d-myo-inositol 1,4,5-trisphosphate. Carbohydrate Research, 2000, 329, 7-16.	2.4	18
131	Functional Ryanodine Receptors in the Plasma Membrane of RINm5F Pancreatic Î²-Cells. Journal of Biological Chemistry, 2009, 284, 5186-5194.	3.5	18
132	Synthesis of 4,8-anhydro-d-glycero-d-ido-nonanitol 1,6,7-trisphosphate as a novel IP3 receptor ligand using a stereoselective radical cyclization reaction based on a conformational restriction strategy. Tetrahedron, 2005, 61, 3697-3707.	2.0	17
133	The store-operated Ca ²⁺ entry complex comprises a small cluster of STIM1 associated with one Orai1 channel. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.6	17
134	Type 3 inositol trisphosphate receptors in RINm5F cells are biphasically regulated by cytosolic Ca2+ and mediate quantal Ca2+ mobilization. Biochemical Journal, 1999, 344, 55.	3.8	16
135	IP3 receptors â€" lessons from analyses <i>ex cellula</i>. Journal of Cell Science, 2019, 132, .	2.1	16
136	Stimulation of Inositol 1,4,5-Trisphosphate (IP3) Receptor Subtypes by Adenophostin A and Its Analogues. PLoS ONE, 2013, 8, e58027.	2.5	16
137	Kinetic Analysis of Inositol Trisphosphate Binding to Pure Inositol Trisphosphate Receptors Using Scintillation Proximity Assay. Biochemical and Biophysical Research Communications, 1996, 221, 821-825.	2.2	15
138	A Systematic Study of C-Glucoside Trisphosphates as myo-Inositol Trisphosphate Receptor Ligands. Synthesis of Î²-C-Glucoside Trisphosphates Based on the Conformational Restriction Strategy. Journal of Medicinal Chemistry, 2006, 49, 1900-1909.	6.6	15
139	Analysis of IP3 receptors in and out of cells. Biochimica Et Biophysica Acta - General Subjects, 2012, 1820, 1214-1227.	2.5	15
140	iRhom pseudoproteases regulate ER stress-induced cell death through IP3 receptors and BCL-2. Nature Communications, 2022, 13, 1257.	13.2	15
141	Luminal Ca2+ regulates passive Ca2+ efflux from the intracellular stores of hepatocytes. Biochemical Journal, 1998, 334, 431-435.	3.8	14
142	A novel Ca2+-induced Ca2+ release mechanism mediated by neither inositol trisphosphate nor ryanodine receptors. Biochemical Journal, 2002, 361, 605.	3.8	14
143	Design and Synthesis of 5â€˜-Deoxy-5â€˜-Phenyladenophostin A, a Highly Potent IP3Receptor Ligand1. Organic Letters, 2006, 8, 1455-1458.	4.8	14
144	Rapid activation and partial inactivation of inositol trisphosphate receptors by adenophostin A. Biochemical Journal, 2000, 352, 929-933.	3.8	14

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145	Functional properties of Drosophila inositol trisphosphate receptors. Biochemical Journal, 2001, 359, 435.	3.8	13
146	A calmodulin antagonist reveals a calmodulin-independent interdomain interaction essential for activation of inositol 1,4,5-trisphosphate receptors. Biochemical Journal, 2008, 416, 243-253.	3.8	13
147	Targeting of inositol 1,4,5-trisphosphate receptor to the endoplasmic reticulum by its first transmembrane domain. Biochemical Journal, 2010, 425, 61-74.	3.8	13
148	Ca2+ Signalling by IP3 Receptors. Sub-Cellular Biochemistry, 2012, 59, 1-34.	0.0	13
149	Guanophostin A: Synthesis and evaluation of a high affinity agonist of the d-myo-inositol 1,4,5-trisphosphate receptor. Chemical Communications, 2006, , 2015.	4.2	12
150	Solubilization of rat liver inositol 1,4,5-trisphosphate receptor. Cellular Signalling, 1991, 3, 607-612.	3.7	11
151	Receptors linked to polyphosphoinositide hydrolysis stimulate Ca2+ extrusion by a phospholipase C-independent mechanism. Biochemical Journal, 1999, 342, 199-206.	3.8	11
152	Triazolophostins: a library of novel and potent agonists of IP₃receptors. Organic and Biomolecular Chemistry, 2015, 13, 6698-6710.	2.9	11
153	A synthetic cyclitol-nucleoside conjugate polyphosphate is a highly potent second messenger mimic. Chemical Science, 2019, 10, 5382-5390.	7.8	11
154	<scp>d</scp>-<i>chiro</i>-Inositol Ribophostin: A Highly Potent Agonist of <scp>d</scp>-<i>myo</i>-Inositol 1,4,5-Trisphosphate Receptors: Synthesis and Biological Activities. Journal of Medicinal Chemistry, 2020, 63, 3238-3251.	6.6	11
155	Calcium Absorption by the Midgut of the Blowfly, <i>Calliphora Vicina</i>. Journal of Experimental Biology, 1985, 114, 551-561.	1.7	11
156	Ca2+ Release by IP3 Receptors Is Required to Orient the Mitotic Spindle. Cell Reports, 2020, 33, 108483.	6.3	11
157	Long Lasting Inhibition of Adenylyl Cyclase Selectively Mediated by Inositol 1,4,5-Trisphosphate-evoked Calcium Release. Journal of Biological Chemistry, 2005, 280, 8936-8944.	3.5	10
158	Activation of IP3 receptors requires an endogenous 1-8-14 calmodulin-binding motif. Biochemical Journal, 2013, 449, 39-49.	3.8	10
159	Prostaglandin E₂Inhibits Histamine-Evoked Ca²⁺Release in Human Aortic Smooth Muscle Cells through Hyperactive cAMP Signaling Junctions and Protein Kinase A. Molecular Pharmacology, 2017, 92, 533-545.	2.3	10
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