Colin W Taylor

List of Publications by Year
in descending order

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221
papers

9,625
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47409
49
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60403
85
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244
all docs

244
docs citations

244
times ranked

8343
citing authors

#	Article	IF	Citations
1	Spontaneous calcium release from inositol trisphosphate-sensitive calcium stores. Nature, 1991, 352, 241-244.	13.7	376
2	Analysis of protein-ligand interactions by fluorescence polarization. Nature Protocols, 2011, 6, 365-387.	5.5	296
3	Expression of inositol trisphosphate receptors. Cell Calcium, 1999, 26, 237-251.	1.1	268
4	IP3 Receptors: Toward Understanding Their Activation. Cold Spring Harbor Perspectives in Biology, 2010, 2, a004010-a004010.	2.3	238
5	IP3 receptors and their regulation by calmodulin and cytosolic Ca2+. Cell Calcium, 2002, 32, 321-334.	1.1	209
6	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.	1.3	188
7	Ca2+ Entry Through Plasma Membrane IP3 Receptors. Science, 2006, 313, 229-233.	6.0	170
8	How Does Intracellular Ca2+ Oscillate: By Chance or by the Clock?. Biophysical Journal, 2008, 94, 2404-2411.	0.2	169
9	Paclitaxel Affects Cytosolic Calcium Signals by Opening the Mitochondrial Permeability Transition Pore. Journal of Biological Chemistry, 2002, 277, 6504-6510.	1.6	168
10	Clustering of InsP3 receptors by InsP3 retunes their regulation by InsP3 and Ca2+. Nature, 2009, 458, 655-659.	13.7	165
11	Structural and functional conservation of key domains in InsP3 and ryanodine receptors. Nature, 2012, 483, 108-112.	13.7	163
12	Structure and function of inositol triphosphate receptors. , 1991, 51, 97-137.		154
13	Pharmacological analysis of intracellular Ca2+ signalling: problems and pitfalls. Trends in Pharmacological Sciences, 1998, 19, 370-375.	4.0	154
14	Inositol trisphosphate receptors: Ca2+-modulated intracellular Ca2+ channels. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 1998, 1436, 19-33.	1.2	153
15	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.	1.6	153
16	Cooperative activation of IP3 receptors by sequential binding of IP3 and Ca2+ safeguards against spontaneous activity. Current Biology, 1997, 7, 510-518.	1.8	150
17	IP3 receptors: the search for structure. Trends in Biochemical Sciences, 2004, 29, 210-219.	3.7	144
18	Lateral inhibition of inositol 1,4,5-trisphosphate receptors by cytosolic Ca2+. Current Biology, 1999, 9, 1115-1118.	1.8	139

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19	Receptor coupling to polyphosphoinositide turnover: a parallel with the adenylate cyclase system. Trends in Pharmacological Sciences, 1986, 7, 238-242.	4.0	134
20	Red fluorescent genetically encoded Ca2+ indicators for use in mitochondria and endoplasmic reticulum. Biochemical Journal, 2014, 464, 13-22.	1.7	132
21	IP3 Receptors Preferentially Associate with ER-Lysosome Contact Sites and Selectively Deliver Ca2+ to Lysosomes. Cell Reports, 2018, 25, 3180-3193.e7.	2.9	124
22	Ca2+ signals initiate at immobile IP3 receptors adjacent to ER-plasma membrane junctions. Nature Communications, 2017, 8, 1505.	5.8	123
23	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.	1.2	121
24	Inositol 1,4,5â€trisphosphate receptors and their protein partners as signalling hubs. Journal of Physiology, 2016, 594, 2849-2866.	1.3	119
25	Structure and Function of IP₃Receptors. Cold Spring Harbor Perspectives in Biology, 2019, 11, a035063.	2.3	114
26	Identification of Intracellular and Plasma Membrane Calcium Channel Homologues in Pathogenic Parasites. PLoS ONE, 2011, 6, e26218.	1.1	107
27	Calcium and inositol 1,4,5-triphosphate receptors: a complex relationship. Trends in Biochemical Sciences, 1992, 17, 403-407.	3.7	105
28	Reliable Encoding of Stimulus Intensities Within Random Sequences of Intracellular Ca ²⁺ Spikes. Science Signaling, 2014, 7, ra59.	1.6	101
29	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.	1.0	98
30	Interactions of antagonists with subtypes of inositol 1,4,5â€trisphosphate (<scp>IP</scp>₃) receptor. British Journal of Pharmacology, 2014, 171, 3298-3312.	2.7	95
31	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.	2.3	93
32	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.	3.3	88
33	A novel role for calmodulin: Ca2+-independent inhibition of type-1 inositol trisphosphate receptors. Biochemical Journal, 1998, 334, 447-455.	1.7	82
34	Calcium signalling: IP3 rises againâ€¦ and again. Current Biology, 2001, 11, R352-R355.	1.8	82
35	Ca2+-calmodulin inhibits Ca2+ release mediated by type-1, -2 and -3 inositol trisphosphate receptors. Biochemical Journal, 2000, 345, 357-363.	1.7	80
36	Controlling Calcium Entry. Cell, 2002, 111, 767-769.	13.5	79

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37	Sigma1 receptors inhibit store-operated Ca2+ entry by attenuating coupling of STIM1 to Orai1. Journal of Cell Biology, 2016, 213, 65-79.	2.3	76
38	Disaccharide Polyphosphates Based upon Adenophostin A Activate Hepatic d-myo-Inositol 1,4,5-Trisphosphate Receptors. Biochemistry, 1997, 36, 12780-12790.	1.2	71
39	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.	2.9	71
40	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.	1.7	71
41	Synthetic partial agonists reveal key steps in IP3 receptor activation. Nature Chemical Biology, 2009, 5, 631-639.	3.9	69
42	IP ₃ receptors: Take four IP ₃ to open. Science Signaling, 2016, 9, pe1.	1.6	69
43	Regulation of IP3 receptors by cyclic AMP. Cell Calcium, 2017, 63, 48-52.	1.1	69
44	Rapid Activation and Partial Inactivation of Inositol Trisphosphate Receptors by Inositol Trisphosphateâ€. Biochemistry, 1998, 37, 11524-11533.	1.2	67
45	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, .	1.6	67
46	The endo-lysosomal system as an NAADP-sensitive acidic Ca2+ store: Role for the two-pore channels. Cell Calcium, 2011, 50, 157-167.	1.1	60
47	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.	2.3	58
48	Membrane Topology of NAADP-sensitive Two-pore Channels and Their Regulation by N-linked Glycosylation. Journal of Biological Chemistry, 2011, 286, 9141-9149.	1.6	57
49	Identification and Analysis of Putative Homologues of Mechanosensitive Channels in Pathogenic Protozoa. PLoS ONE, 2013, 8, e66068.	1.1	57
50	Structural Determinants of Adenophostin A Activity at Inositol Trisphosphate Receptors. Molecular Pharmacology, 2001, 59, 1206-1215.	1.0	55
51	Nitric oxide co-ordinates the activities of the capacitative and non-capacitative Ca2+-entry pathways regulated by vasopressin. Biochemical Journal, 2003, 370, 439-448.	1.7	54
52	IP3 receptors and Ca2+ entry. Biochimica Et Biophysica Acta - Molecular Cell Research, 2019, 1866, 1092-1100.	1.9	52
53	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.	1.0	51
54	Crucial Role of Type 1, but Not Type 3, Inositol 1,4,5-Trisphosphate (IP ₃) Receptors in IP ₃ -Induced Ca ²⁺ Release, Capacitative Ca ²⁺ Entry, and Proliferation of A7r5 Vascular Smooth Muscle Cells. Circulation Research, 2001, 88, 202-209.	2.0	49

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55	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.	1.7	47
56	Timescales of IP3-Evoked Ca2+ Spikes Emerge from Ca2+ Puffs Only at the Cellular Level. Biophysical Journal, 2011, 101, 2638-2644.	0.2	47
57	Selective recognition of inositol phosphates by subtypes of the inositol trisphosphate receptor. Biochemical Journal, 2001, 355, 59-69.	1.7	46
58	Rapid functional assays of intracellular Ca2+ channels. Nature Protocols, 2006, 1, 259-263.	5.5	46
59	Regulation of Inositol 1,4,5-Trisphosphate Receptors by cAMP Independent of cAMP-dependent Protein Kinase. Journal of Biological Chemistry, 2010, 285, 12979-12989.	1.6	46
60	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.	1.7	45
61	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.	0.7	45
62	IP₃ receptors: some lessons from DT40 cells. Immunological Reviews, 2009, 231, 23-44.	2.8	45
63	Choline Is an Intracellular Messenger Linking Extracellular Stimuli to IP3-Evoked Ca2+ Signals through Sigma-1 Receptors. Cell Reports, 2019, 26, 330-337.e4.	2.9	45
64	Spatial organization of intracellular Ca2+ signals. Seminars in Cell and Developmental Biology, 2012, 23, 172-180.	2.3	43
65	Differential Distribution, Clustering, and Lateral Diffusion of Subtypes of the Inositol 1,4,5-Trisphosphate Receptor. Journal of Biological Chemistry, 2011, 286, 23378-23387.	1.6	41
66	Synthesis and Ca2+-Mobilizing Activity of Purine-Modified Mimics of Adenophostin A:Â A Model for the Adenophostinâˆ’Ins(1,4,5)P3Receptor Interaction. Journal of Medicinal Chemistry, 2003, 46, 4860-4871.	2.9	40
67	Selective recognition of inositol phosphates by subtypes of the inositol trisphosphate receptor. Biochemical Journal, 2001, 355, 59.	1.7	38
68	Store-operated Ca2+ entry: a STIMulating stOrai. Trends in Biochemical Sciences, 2006, 31, 597-601.	3.7	38
69	IP3 receptors and store-operated Ca2+ entry: a license to fill. Current Opinion in Cell Biology, 2019, 57, 1-7.	2.6	38
70	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.	1.6	37
71	Dynamic regulation of IP3 receptor clustering and activity by IP3. Channels, 2009, 3, 226-232.	1.5	37
72	Ca²⁺ Channels on the Move. Biochemistry, 2009, 48, 12062-12080.	1.2	37

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73	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.	1.0	37
74	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.	3.3	37
75	A genetically encoded toolkit of functionalized nanobodies against fluorescent proteins for visualizing and manipulating intracellular signalling. BMC Biology, 2019, 17, 41.	1.7	37
76	All three IP3 receptor subtypes generate Ca2+ puffs, the universal building blocks of IP3-evoked Ca2+ signals. Journal of Cell Science, 2018, 131, .	1.2	36
77	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.	1.7	35
78	Expression and Distribution of InsP3 Receptor Subtypes in Proliferating Vascular Smooth Muscle Cells. Biochemical and Biophysical Research Communications, 2000, 273, 907-912.	1.0	35
79	Counting Functional Inositol 1,4,5-Trisphosphate Receptors into the Plasma Membrane. Journal of Biological Chemistry, 2008, 283, 751-755.	1.6	35
80	Structural organization of signalling to and from IP3 receptors. Biochemical Society Transactions, 2014, 42, 63-70.	1.6	35
81	Microtubule-Associated Protein EB3 Regulates IP3 Receptor Clustering and Ca2+ Signaling in Endothelial Cells. Cell Reports, 2015, 12, 79-89.	2.9	35
82	Ca2+-calmodulin inhibits Ca2+ release mediated by type-1, -2 and -3 inositol trisphosphate receptors. Biochemical Journal, 2000, 345, 357.	1.7	34
83	Rapid functional assays of recombinant IP3 receptors. Cell Calcium, 2005, 38, 45-51.	1.1	33
84	Golgi Anti-apoptotic Proteins Are Highly Conserved Ion Channels That Affect Apoptosis and Cell Migration. Journal of Biological Chemistry, 2015, 290, 11785-11801.	1.6	33
85	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.	1.6	32
86	Mutant IP3 receptors attenuate store-operated Ca2+ entry by destabilizing STIM-Orai interactions in <i>Drosophila</i> neurons. Journal of Cell Science, 2016, 129, 3903-3910.	1.2	32
87	Rapid Recycling of Ca2+ between IP3-Sensitive Stores and Lysosomes. PLoS ONE, 2014, 9, e111275.	1.1	32
88	Receptor-regulated Ca2+ entry: secret pathway or secret messenger?. Trends in Pharmacological Sciences, 1990, 11, 269-271.	4.0	31
89	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.	1.0	31
90	Different phospholipase-C-coupled receptors differentially regulate capacitative and non-capacitative Ca2+ entry in A7r5 cells. Biochemical Journal, 2005, 389, 821-829.	1.7	31

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91	Calcium regulation in vertebrates: An overview. Comparative Biochemistry and Physiology A, Comparative Physiology, 1985, 82, 249-255.	0.7	30
92	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.	1.7	30
93	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.	1.6	30
94	Determinants of adenophostin A binding to inositol trisphosphate receptors. Biochemical Journal, 2002, 367, 113-120.	1.7	29
95	Reliable measurement of free Ca2+ concentrations in the ER lumen using Mag-Fluo-4. Cell Calcium, 2020, 87, 102188.	1.1	29
96	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.	1.8	28
97	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.	1.8	28
98	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.	1.6	27
99	Activation of IP3 receptors by synthetic bisphosphate ligands. Chemical Communications, 2009, , 1204.	2.2	27
100	Selective determinants of inositol 1,4,5â€trisphosphate and adenophostin A interactions with type 1 inositol 1,4,5â€trisphosphate receptors. British Journal of Pharmacology, 2010, 161, 1070-1085.	2.7	27
101	Endogenous signalling pathways and caged-IP3 evoke Ca2+ puffs at the same abundant immobile intracellular sites. Journal of Cell Science, 2017, 130, 3728-3739.	1.2	27
102	KRAP tethers IP3 receptors to actin and licenses them to evoke cytosolic Ca2+ signals. Nature Communications, 2021, 12, 4514.	5.8	27
103	Identification and Analysis of Cation Channel Homologues in Human Pathogenic Fungi. PLoS ONE, 2012, 7, e42404.	1.1	27
104	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.	1.0	26
105	Synthesis of adenophostin A. Tetrahedron: Asymmetry, 2000, 11, 397-403.	1.8	26
106	Remodeling of ERâ€"plasma membrane contact sites but not STIM1 phosphorylation inhibits Ca2+influx in mitosis. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 10392-10401.	3.3	26
107	Extracellular heavy-metal ions stimulate Ca2+ mobilization in hepatocytes. Biochemical Journal, 1999, 339, 555.	1.7	25
108	Adenophostin A and analogues modified at the adenine moiety: synthesis, conformational analysis and biological activity. Organic and Biomolecular Chemistry, 2005, 3, 245.	1.5	25

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109	Ca²⁺ signalling by P2Y receptors in cultured rat aortic smooth muscle cells. British Journal of Pharmacology, 2010, 160, 1953-1962.	2.7	25
110	Adenophostins. Current Topics in Membranes, 2010, 66, 209-233.	0.5	25
111	GPN does not release lysosomal Ca2+, but evokes ER Ca2+ release by increasing cytosolic pH independent of cathepsin C. Journal of Cell Science, 2019, 132, .	1.2	25
112	Receptor regulation of calcium entry. Trends in Pharmacological Sciences, 1987, 8, 79-80.	4.0	24
113	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.	1.8	24
114	Fast Biphasic Regulation of Type 3 Inositol Trisphosphate Receptors by Cytosolic Calcium. Journal of Biological Chemistry, 2002, 277, 17571-17579.	1.6	24
115	Parathyroid hormone increases the sensitivity of inositol trisphosphate receptors by a mechanism that is independent of cyclic AMP. British Journal of Pharmacology, 2003, 138, 81-90.	2.7	24
116	From parathyroid hormone to cytosolic Ca2+ signals. Biochemical Society Transactions, 2012, 40, 147-152.	1.6	23
117	Cyclic AMP directs IP3-evoked Ca2+ signalling to different intracellular Ca2+ stores. Journal of Cell Science, 2013, 126, 2305-13.	1.2	23
118	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.	2.9	22
119	A novel Ca2+-induced Ca2+ release mechanism mediated by neither inositol trisphosphate nor ryanodine receptors. Biochemical Journal, 2002, 361, 605-611.	1.7	22
120	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.	2.9	22
121	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.	2.9	22
122	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.	1.7	22
123	Stimulation of Inositol 1,4,5-Trisphosphate (IP3) Receptor Subtypes by Analogues of IP3. PLoS ONE, 2013, 8, e54877.	1.1	22
124	Differentiation of BC3H1 smooth muscle cells changes the bivalent cation selectivity of the capacitative Ca2+ entry pathway. Biochemical Journal, 1996, 316, 759-764.	1.7	21
125	Different receptors use inositol trisphosphate to mobilize Ca2+ from different intracellular pools. Biochemical Journal, 2000, 351, 683-686.	1.7	21
126	Functional properties of Drosophila inositol trisphosphate receptors. Biochemical Journal, 2001, 359, 435-441.	1.7	21

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127	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.	1.1	21
128	Targeting and clustering of IP3 receptors: Key determinants of spatially organized Ca2+ signals. Chaos, 2009, 19, 037102.	1.0	21
129	P2Y receptor subtypes evoke different Ca2+ signals in cultured aortic smooth muscle cells. Purinergic Signalling, 2012, 8, 763-777.	1.1	21
130	Calcium Regulation in Insects. Advances in Insect Physiology, 1987, , 155-186.	1.1	20
131	Prostaglandin F2Î± increases the sensitivity of the contractile proteins to Ca2+ in human myometrium. American Journal of Obstetrics and Gynecology, 2006, 195, 1404-1406.	0.7	20
132	Cyclic AMP Recruits a Discrete Intracellular Ca 2+ Store by Unmasking Hypersensitive IP 3 Receptors. Cell Reports, 2017, 18, 711-722.	2.9	20
133	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.	2.9	19
134	Targeting and Retention of Type 1 Ryanodine Receptors to the Endoplasmic Reticulum*. Journal of Biological Chemistry, 2007, 282, 23096-23103.	1.6	19
135	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.	1.7	19
136	Three-dimensional structure of recombinant typeÂ1 inositol 1,4,5-trisphosphate receptor. Biochemical Journal, 2010, 428, 483-489.	1.7	19
137	Intracellular Ca2+ channels â€" A growing community. Molecular and Cellular Endocrinology, 2012, 353, 21-28.	1.6	19
138	Selective inhibition of histamine-evoked Ca2+ signals by compartmentalized cAMP in human bronchial airway smooth muscle cells. Cell Calcium, 2018, 71, 53-64.	1.1	19
139	C-Glycoside based mimics of d-myo-inositol 1,4,5-trisphosphate. Carbohydrate Research, 2000, 329, 7-16.	1.1	18
140	Plasma membrane IP3 receptors. Biochemical Society Transactions, 2006, 34, 910-912.	1.6	18
141	Functional Ryanodine Receptors in the Plasma Membrane of RINm5F Pancreatic Î²-Cells. Journal of Biological Chemistry, 2009, 284, 5186-5194.	1.6	18
142	<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.	2.1	18
143	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.	1.0	17
144	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, .	3.3	17

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145	IP3 receptors â€" lessons from analyses <i>ex cellula</i>. Journal of Cell Science, 2019, 132, .	1.2	16
146	Stimulation of Inositol 1,4,5-Trisphosphate (IP3) Receptor Subtypes by Adenophostin A and Its Analogues. PLoS ONE, 2013, 8, e58027.	1.1	16
147	Kinetic Analysis of Inositol Trisphosphate Binding to Pure Inositol Trisphosphate Receptors Using Scintillation Proximity Assay. Biochemical and Biophysical Research Communications, 1996, 221, 821-825.	1.0	15
148	Type 3 inositol trisphosphate receptors in RINm5F cells are biphasically regulated by cytosolic Ca2+ and mediate quantal Ca2+ mobilization. Biochemical Journal, 1999, 344, 55.	1.7	15
149	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.	2.9	15
150	Analysis of IP3 receptors in and out of cells. Biochimica Et Biophysica Acta - General Subjects, 2012, 1820, 1214-1227.	1.1	15
151	Ca 2+ signals evoked by histamine H 1 receptors are attenuated by activation of prostaglandin EP 2 and EP 4 receptors in human aortic smooth muscle cells. British Journal of Pharmacology, 2013, 169, 1624-1634.	2.7	15
152	Luminal Ca2+ regulates passive Ca2+ efflux from the intracellular stores of hepatocytes. Biochemical Journal, 1998, 334, 431-435.	1.7	14
153	A novel Ca2+-induced Ca2+ release mechanism mediated by neither inositol trisphosphate nor ryanodine receptors. Biochemical Journal, 2002, 361, 605.	1.7	14
154	Design and Synthesis of 5â€²-Deoxy-5â€²-Phenyladenophostin A, a Highly Potent IP3Receptor Ligand1. Organic Letters, 2006, 8, 1455-1458.	2.4	14
155	Rapid activation and partial inactivation of inositol trisphosphate receptors by adenophostin A. Biochemical Journal, 2000, 352, 929-933.	1.7	14
156	Functional properties of Drosophila inositol trisphosphate receptors. Biochemical Journal, 2001, 359, 435.	1.7	13
157	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.	1.7	13
158	Targeting of inositol 1,4,5-trisphosphate receptor to the endoplasmic reticulum by its first transmembrane domain. Biochemical Journal, 2010, 425, 61-74.	1.7	13
159	Ca2+ Signalling by IP3 Receptors. Sub-Cellular Biochemistry, 2012, 59, 1-34.	1.0	13
160	Ca2+ Regulation of Inositol 1,4,5-trisphosphate Receptors: Can Ca2+ Function without Calmodulin?. Molecular Pharmacology, 2004, 66, 199-203.	1.0	12
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