

David I Yule

List of Publications by Year in descending order

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119
papers

5,212
citations

71102

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102487

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docs citations

128
times ranked

4746
citing authors

#	ARTICLE	IF	CITATIONS
1	REGULATION OF FLUID AND ELECTROLYTE SECRETION IN SALIVARY GLAND ACINAR CELLS. Annual Review of Physiology, 2005, 67, 445-469.	13.1	386
2	IP3 receptor isoforms differently regulate ER-mitochondrial contacts and local calcium transfer. Nature Communications, 2019, 10, 3726.	12.8	187
3	Evidence That Zymogen Granules Are Not a Physiologically Relevant Calcium Pool. Journal of Biological Chemistry, 1997, 272, 9093-9098.	3.4	178
4	Calcium Wave Propagation in Pancreatic Acinar Cells. Journal of General Physiology, 2000, 116, 547-560.	1.9	168
5	Phospholipase C μ Hydrolyzes Perinuclear Phosphatidylinositol 4-Phosphate to Regulate Cardiac Hypertrophy. Cell, 2013, 153, 216-227.	28.9	150
6	Defining the stoichiometry of inositol 1,4,5-trisphosphate binding required to initiate Ca ²⁺ release. Science Signaling, 2016, 9, ra35.	3.6	140
7	Akt Kinase Phosphorylation of Inositol 1,4,5-Trisphosphate Receptors. Journal of Biological Chemistry, 2006, 281, 3731-3737.	3.4	133
8	Phosphorylation of Inositol 1,4,5-Trisphosphate Receptors in Parotid Acinar Cells. Journal of Biological Chemistry, 2002, 277, 1340-1348.	3.4	130
9	Isoform- and Species-specific Control of Inositol 1,4,5-Trisphosphate (IP3) Receptors by Reactive Oxygen Species. Journal of Biological Chemistry, 2014, 289, 8170-8181.	3.4	120
10	Recessive and Dominant De Novo ITPR1 Mutations Cause Gillespie Syndrome. American Journal of Human Genetics, 2016, 98, 971-980.	6.2	113
11	Crosstalk between cAMP and Ca ²⁺ signaling in non-excitabile cells. Cell Calcium, 2003, 34, 431-444.	2.4	111
12	Phosphorylation of Type-1 Inositol 1,4,5-Trisphosphate Receptors by Cyclic Nucleotide-dependent Protein Kinases. Journal of Biological Chemistry, 2003, 278, 45811-45817.	3.4	96
13	The native ORAI channel trio underlies the diversity of Ca ²⁺ signaling events. Nature Communications, 2020, 11, 2444.	12.8	90
14	Targeted Phosphorylation of Inositol 1,4,5-Trisphosphate Receptors Selectively Inhibits Localized Ca ²⁺ Release and Shapes Oscillatory Ca ²⁺ Signals. Journal of Biological Chemistry, 2000, 275, 33704-33711.	3.4	81
15	Irbt Mediates Synergy Between Ca ²⁺ and cAMP Signaling Pathways During Epithelial Transport in Mice. Gastroenterology, 2013, 145, 232-241.	1.3	81
16	On the dynamical structure of calcium oscillations. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 1456-1461.	7.1	81
17	Manganese transport via the transferrin mechanism. NeuroToxicology, 2013, 34, 118-127.	3.0	80
18	Regulation of single inositol 1,4,5-trisphosphate receptor channel activity by protein kinase A phosphorylation. Journal of Physiology, 2008, 586, 3577-3596.	2.9	79

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19	Modulation of [Ca ²⁺] Signaling Dynamics and Metabolism by Perinuclear Mitochondria in Mouse Parotid Acinar Cells. <i>Journal of Biological Chemistry</i> , 2004, 279, 12909-12917.	3.4	78
20	Linking structure to function: Recent lessons from inositol 1,4,5-trisphosphate receptor mutagenesis. <i>Cell Calcium</i> , 2010, 47, 469-479.	2.4	77
21	Cytosolic Ca ²⁺ and Ca ²⁺ -activated Cl ⁻ current dynamics: insights from two functionally distinct mouse exocrine cells. <i>Journal of Physiology</i> , 2002, 540, 469-484.	2.9	75
22	Differential regulation of the InsP ₃ receptor type 1 and 2 single channel properties by InsP ₃ , Ca ²⁺ and ATP. <i>Journal of Physiology</i> , 2012, 590, 3245-3259.	2.9	75
23	ATP Modulation of Ca ²⁺ Release by Type-2 and Type-3 Inositol (1, 4, 5)-Triphosphate Receptors. <i>Journal of Biological Chemistry</i> , 2008, 283, 21579-21587.	3.4	72
24	Store-operated Ca ²⁺ entry regulates Ca ²⁺ -activated chloride channels and eccrine sweat gland function. <i>Journal of Clinical Investigation</i> , 2016, 126, 4303-4318.	8.2	68
25	Functional Consequences of Phosphomimetic Mutations at Key cAMP-dependent Protein Kinase Phosphorylation Sites in the Type 1 Inositol 1,4,5-Trisphosphate Receptor. <i>Journal of Biological Chemistry</i> , 2004, 279, 46242-46252.	3.4	63
26	The BRCA1 Tumor Suppressor Binds to Inositol 1,4,5-Trisphosphate Receptors to Stimulate Apoptotic Calcium Release. <i>Journal of Biological Chemistry</i> , 2015, 290, 7304-7313.	3.4	61
27	Protein Kinase A Increases Type-2 Inositol 1,4,5-Trisphosphate Receptor Activity by Phosphorylation of Serine 937. <i>Journal of Biological Chemistry</i> , 2009, 284, 25116-25125.	3.4	59
28	A Kinetic Model for Type I and II IP ₃ R Accounting for Mode Changes. <i>Biophysical Journal</i> , 2012, 103, 658-668.	0.5	59
29	The type 2 inositol 1,4,5-trisphosphate receptor, emerging functions for an intriguing Ca ²⁺ -release channel. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2015, 1853, 1992-2005.	4.1	57
30	Omnitemporal choreographies of all five STIM/Orai and IP ₃ Rs underlie the complexity of mammalian Ca ²⁺ signaling. <i>Cell Reports</i> , 2021, 34, 108760.	6.4	57
31	IP ₃ R deficit underlies loss of salivary fluid secretion in Sjögren's Syndrome. <i>Scientific Reports</i> , 2015, 5, 13953.	3.3	55
32	Secretagogues cause ubiquitination and down-regulation of inositol 1,4,5-trisphosphate receptors in rat pancreatic acinar cells. <i>Gastroenterology</i> , 1999, 116, 1194-1201.	1.3	53
33	Agonist activation of arachidonate-regulated Ca ²⁺ -selective (ARC) channels in murine parotid and pancreatic acinar cells. <i>Journal of Physiology</i> , 2005, 564, 791-801.	2.9	53
34	All three IP ₃ receptor isoforms generate Ca ²⁺ puffs that display similar characteristics. <i>Science Signaling</i> , 2018, 11, .	3.6	53
35	A Role for Phosphorylation of Inositol 1,4,5-Trisphosphate Receptors in Defining Calcium Signals Induced by Peptide Agonists in Pancreatic Acinar Cells. <i>Journal of Biological Chemistry</i> , 2002, 277, 31949-31956.	3.4	51
36	Bcl-2-Protein Family as Modulators of IP ₃ Receptors and Other Organellar Ca ²⁺ Channels. <i>Cold Spring Harbor Perspectives in Biology</i> , 2020, 12, a035089.	5.5	50

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37	Molecular Characterization of the Inositol 1,4,5-Trisphosphate Receptor Pore-forming Segment. <i>Journal of Biological Chemistry</i> , 2008, 283, 2939-2948.	3.4	49
38	Bok regulates mitochondrial fusion and morphology. <i>Cell Death and Differentiation</i> , 2019, 26, 2682-2694.	11.2	49
39	Phenotypic changes in mouse pancreatic stellate cell Ca ²⁺ signaling events following activation in culture and in a disease model of pancreatitis. <i>Molecular Biology of the Cell</i> , 2011, 22, 421-436.	2.1	48
40	Tracing the Evolutionary History of Inositol, 1, 4, 5-Trisphosphate Receptor: Insights from Analyses of <i>Capsaspora owczarzakii</i> Ca ²⁺ Release Channel Orthologs. <i>Molecular Biology and Evolution</i> , 2015, 32, 2236-2253.	8.9	44
41	A dynamic model of saliva secretion. <i>Journal of Theoretical Biology</i> , 2010, 266, 625-640.	1.7	43
42	Resveratrol-induced autophagy is dependent on IP3Rs and on cytosolic Ca ²⁺ . <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2017, 1864, 947-956.	4.1	43
43	Redox regulation of type-I inositol trisphosphate receptors in intact mammalian cells. <i>Journal of Biological Chemistry</i> , 2018, 293, 17464-17476.	3.4	42
44	Bcl-xL acts as an inhibitor of IP3R channels, thereby antagonizing Ca ²⁺ -driven apoptosis. <i>Cell Death and Differentiation</i> , 2022, 29, 788-805.	11.2	41
45	Tumor Necrosis Factor- α Potentiates Intraneuronal Ca ²⁺ Signaling via Regulation of the Inositol 1,4,5-Trisphosphate Receptor. <i>Journal of Biological Chemistry</i> , 2008, 283, 33069-33079.	3.4	40
46	Functional Inositol 1,4,5-Trisphosphate Receptors Assembled from Concatenated Homo- and Heteromeric Subunits. <i>Journal of Biological Chemistry</i> , 2013, 288, 29772-29784.	3.4	40
47	The volume-regulated anion channel LRRC8C suppresses T cell function by regulating cyclic dinucleotide transport and STING \rightarrow p53 signaling. <i>Nature Immunology</i> , 2022, 23, 287-302.	14.5	40
48	Ca ²⁺ -dependent Protein Kinase-A Modulation of the Plasma Membrane Ca ²⁺ -ATPase in Parotid Acinar Cells. <i>Journal of Biological Chemistry</i> , 2002, 277, 48172-48181.	3.4	39
49	Apical Ca ²⁺ -activated potassium channels in mouse parotid acinar cells. <i>Journal of General Physiology</i> , 2012, 139, 121-133.	1.9	39
50	Unique Regulatory Properties of Heterotetrameric Inositol 1,4,5-Trisphosphate Receptors Revealed by Studying Concatenated Receptor Constructs. <i>Journal of Biological Chemistry</i> , 2016, 291, 4846-4860.	3.4	37
51	The Type 2 Inositol (1,4,5)-Trisphosphate (InsP3) Receptor Determines the Sensitivity of InsP3-induced Ca ²⁺ Release to ATP in Pancreatic Acinar Cells. <i>Journal of Biological Chemistry</i> , 2008, 283, 26081-26088.	3.4	36
52	Critical role for NHE1 in intracellular pH regulation in pancreatic acinar cells. <i>American Journal of Physiology - Renal Physiology</i> , 2003, 285, G804-G812.	3.4	35
53	ATP Regulation of Type-1 Inositol 1,4,5-Trisphosphate Receptor Activity Does Not Require Walker A-type ATP-binding Motifs. <i>Journal of Biological Chemistry</i> , 2009, 284, 16156-16163.	3.4	35
54	Protein kinase C regulation of P2X3 receptors is unlikely to involvedirect receptor phosphorylation. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2007, 1773, 166-175.	4.1	34

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55	The trans-membrane domain of Bcl-2 ^{1±} , but not its hydrophobic cleft, is a critical determinant for efficient IP3 receptor inhibition. <i>Oncotarget</i> , 2016, 7, 55704-55720.	1.8	34
56	Subtype-Specific Regulation of Inositol 1,4,5-Trisphosphate Receptors. <i>Journal of General Physiology</i> , 2001, 117, 431-434.	1.9	33
57	Fluoride exposure alters Ca ²⁺ signaling and mitochondrial function in enamel cells. <i>Science Signaling</i> , 2020, 13, .	3.6	33
58	Phosphatidylinositol 4-phosphate is a major source of GPCR-stimulated phosphoinositide production. <i>Science Signaling</i> , 2018, 11, .	3.6	32
59	Fragmented Inositol 1,4,5-Trisphosphate Receptors Retain Tetrameric Architecture and Form Functional Ca ²⁺ Release Channels. <i>Journal of Biological Chemistry</i> , 2013, 288, 11122-11134.	3.4	31
60	Bcl-2 and IP3 compete for the ligand-binding domain of IP3Rs modulating Ca ²⁺ signaling output. <i>Cellular and Molecular Life Sciences</i> , 2019, 76, 3843-3859.	5.4	31
61	The Mitochondrial Ca ²⁺ uniporter is a central regulator of interorganellar Ca ²⁺ transfer and NFAT activation. <i>Journal of Biological Chemistry</i> , 2021, 297, 101174.	3.4	30
62	Ca ²⁺ release dynamics in parotid and pancreatic exocrine acinar cells evoked by spatially limited flash photolysis. <i>American Journal of Physiology - Renal Physiology</i> , 2007, 293, G1166-G1177.	3.4	28
63	Modulation of Ca ²⁺ oscillations by phosphorylation of Ins(1,4,5)P3 receptors. <i>Biochemical Society Transactions</i> , 2003, 31, 954-957.	3.4	27
64	Alpha-Helical Destabilization of the Bcl-2-BH4-Domain Peptide Abolishes Its Ability to Inhibit the IP3 Receptor. <i>PLoS ONE</i> , 2013, 8, e73386.	2.5	27
65	ATP Binding to a Unique Site in the Type-1 S2- Inositol 1,4,5-Trisphosphate Receptor Defines Susceptibility to Phosphorylation by Protein Kinase A. <i>Journal of Biological Chemistry</i> , 2006, 281, 17410-17419.	3.4	26
66	Tumor Necrosis Factor- α -mediated Regulation of the Inositol 1,4,5-Trisphosphate Receptor Promoter. <i>Journal of Biological Chemistry</i> , 2009, 284, 27557-27566.	3.4	26
67	Studying isoform-specific inositol 1,4,5-trisphosphate receptor function and regulation. <i>Methods</i> , 2008, 46, 177-182.	3.8	25
68	Regulation of Inositol 1,4,5-Trisphosphate Receptors by Phosphorylation and Adenine Nucleotides. <i>Current Topics in Membranes</i> , 2010, 66, 273-298.	0.9	24
69	Visualizing form and function in organotypic slices of the adult mouse parotid gland. <i>American Journal of Physiology - Renal Physiology</i> , 2008, 295, G629-G640.	3.4	23
70	Characterization of ryanodine receptor type 1 single channel activity using ω -nucleus patch clamp. <i>Cell Calcium</i> , 2014, 56, 96-107.	2.4	22
71	Functional communication between IP ₃ R and STIM2 at subthreshold stimuli is a critical checkpoint for initiation of SOCE. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, .	7.1	22
72	InsP3R-associated cGMP Kinase Substrate Determines Inositol 1,4,5-Trisphosphate Receptor Susceptibility to Phosphoregulation by Cyclic Nucleotide-dependent Kinases. <i>Journal of Biological Chemistry</i> , 2010, 285, 37927-37938.	3.4	21

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73	DPB162-AE, an inhibitor of store-operated Ca ²⁺ entry, can deplete the endoplasmic reticulum Ca ²⁺ store. <i>Cell Calcium</i> , 2017, 62, 60-70.	2.4	21
74	Modelling the effects of calcium waves and oscillations on saliva secretion. <i>Journal of Theoretical Biology</i> , 2012, 305, 45-53.	1.7	20
75	Evidence That Calcium Entry Into Calcium-Transporting Dental Enamel Cells Is Regulated by Cholecystokinin, Acetylcholine and ATP. <i>Frontiers in Physiology</i> , 2018, 9, 801.	2.8	20
76	Multiscale modelling of saliva secretion. <i>Mathematical Biosciences</i> , 2014, 257, 69-79.	1.9	19
77	Inositol 1,4,5-Trisphosphate Receptor Mutations Associated with Human Disease. <i>Messenger (Los)</i> Tj ETQq1 1 0.784314 rgBT /Overlook 0.3 19	0.3	19
78	Protein kinase A regulation of P2X4 receptors: Requirement for a specific motif in the C-terminus. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2010, 1803, 275-287.	4.1	18
79	Platelet olfactory receptor activation limits platelet reactivity and growth of aortic aneurysms. <i>Journal of Clinical Investigation</i> , 2022, 132, .	8.2	18
80	Proteolytic fragmentation of inositol 1,4,5-trisphosphate receptors: a novel mechanism regulating channel activity?. <i>Journal of Physiology</i> , 2016, 594, 2867-2876.	2.9	17
81	Region-specific proteolysis differentially regulates type 1 inositol 1,4,5-trisphosphate receptor activity. <i>Journal of Biological Chemistry</i> , 2017, 292, 11714-11726.	3.4	17
82	Pancreatic acinar cells: Molecular insight from studies of signal-transduction using transgenic animals. <i>International Journal of Biochemistry and Cell Biology</i> , 2010, 42, 1757-1761.	2.8	16
83	Stimulus-secretion Coupling in Pancreatic Acinar Cells. , 2012, , 1361-1398.		16
84	Using concatenated subunits to investigate the functional consequences of heterotetrameric inositol 1,4,5-trisphosphate receptors. <i>Biochemical Society Transactions</i> , 2015, 43, 364-370.	3.4	16
85	Disease-associated mutations in inositol 1,4,5-trisphosphate receptor subunits impair channel function. <i>Journal of Biological Chemistry</i> , 2020, 295, 18160-18178.	3.4	16
86	Highly localized intracellular Ca ²⁺ signals promote optimal salivary gland fluid secretion. <i>ELife</i> , 2021, 10, .	6.0	16
87	Magnesium Acts as a Second Messenger in the Regulation of NMDA Receptor-Mediated CREB Signaling in Neurons. <i>Molecular Neurobiology</i> , 2020, 57, 2539-2550.	4.0	14
88	Regulation of Ca ²⁺ release through inositol 1,4,5-trisphosphate receptors by adenine nucleotides in parotid acinar cells. <i>American Journal of Physiology - Renal Physiology</i> , 2012, 302, G97-G104.	3.4	13
89	Inositol 1,4,5-trisphosphate Receptor Mutations associated with Human Disease. <i>Messenger (Los)</i> Tj ETQq1 1 0.784314 rgBT /Overlook 0.3 13	0.3	13
90	Impaired TNF- α control of IP3R-mediated Ca ²⁺ release in Alzheimer's disease mouse neurons. <i>Cellular Signalling</i> , 2010, 22, 519-526.	3.6	12

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91	A Model of Ca^{2+} Dynamics in an Accurate Reconstruction of Parotid Acinar Cells. <i>Bulletin of Mathematical Biology</i> , 2019, 81, 1394-1426.	1.9	11
92	Sex-Specific Platelet Activation Through Protease-Activated Receptors Reverses in Myocardial Infarction. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2021, 41, 390-400.	2.4	11
93	Metabolic adaptation to the chronic loss of Ca^{2+} signaling induced by KO of IP3 receptors or the mitochondrial Ca^{2+} uniporter. <i>Journal of Biological Chemistry</i> , 2022, 298, 101436.	3.4	11
94	Differential regulation of ion channels function by proteolysis. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2018, 1865, 1698-1706.	4.1	10
95	Modeling calcium waves in an anatomically accurate three-dimensional parotid acinar cell. <i>Journal of Theoretical Biology</i> , 2017, 419, 383-393.	1.7	9
96	New saliva secretion model based on the expression of $\text{Na}^{+}\text{-K}^{+}$ pump and K^{+} channels in the apical membrane of parotid acinar cells. <i>Pflugers Archiv European Journal of Physiology</i> , 2018, 470, 613-621.	2.8	9
97	Acetylcholine Inhibits Platelet Activation. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2019, 369, 182-187.	2.5	9
98	A Mathematical Model of Fluid Transport in an Accurate Reconstruction of Parotid Acinar Cells. <i>Bulletin of Mathematical Biology</i> , 2019, 81, 699-721.	1.9	9
99	Pancreas-specific CHRM3 activation causes pancreatitis in mice. <i>JCI Insight</i> , 2021, 6, .	5.0	8
100	CREB regulates the expression of type 1 inositol 1,4,5-trisphosphate receptors. <i>Journal of Cell Science</i> , 2021, 134, .	2.0	8
101	A protocol for detecting elemental calcium signals (Ca^{2+} puffs) in mammalian cells using total internal reflection fluorescence microscopy. <i>STAR Protocols</i> , 2021, 2, 100618.	1.2	8
102	Spatial and temporal crosstalk between the cAMP and Ca^{2+} signaling systems. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2022, 1869, 119293.	4.1	8
103	Calcium Dynamics and Water Transport in Salivary Acinar Cells. <i>Bulletin of Mathematical Biology</i> , 2021, 83, 31.	1.9	7
104	Tracing the evolutionary history of Ca^{2+} -signaling modulation by human Bcl-2: Insights from the <i>Capsaspora owczarzaki</i> IP3 receptor ortholog. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2021, 1868, 119121.	4.1	7
105	Expression of BK channels and $\text{Na}^{+}\text{-K}^{+}$ pumps in the apical membrane of lacrimal acinar cells suggests a new molecular mechanism for primary tear-secretion. <i>Ocular Surface</i> , 2019, 17, 272-277.	4.4	6
106	Region-specific proteolysis differentially modulates type 2 and type 3 inositol 1,4,5-trisphosphate receptor activity in models of acute pancreatitis. <i>Journal of Biological Chemistry</i> , 2018, 293, 13112-13124.	3.4	5
107	A Multicellular Model of Primary Saliva Secretion in the Parotid Gland. <i>Bulletin of Mathematical Biology</i> , 2020, 82, 38.	1.9	5
108	Carbohydrate Loading to Combat Acute Pancreatitis. <i>Trends in Biochemical Sciences</i> , 2018, 43, 741-744.	7.5	3

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109	Can pancreatitis be treated by inhibiting Ca ²⁺ signaling?. Annals of Translational Medicine, 2018, 6, 124-124.	1.7	3
110	A Mathematical Model of Salivary Gland Duct Cells. Bulletin of Mathematical Biology, 2022, 84, .	1.9	3
111	In vivo Ca ²⁺ Imaging in Mouse Salivary Glands. Bio-protocol, 2022, 12, e4380.	0.4	2
112	An inside job: Annexin 1A-Inositol 1,4,5-trisphosphate receptor interaction conveys endoplasmic reticulum luminal Ca ²⁺ sensitivity. Cell Calcium, 2020, 90, 102250.	2.4	1
113	Pivotal role of type-1 inositol 1,4,5-trisphosphate receptor for glucagon-induced gluconeogenesis. Cell Calcium, 2020, 90, 102243.	2.4	1
114	A KRAP(y) job: Defining the localization of active IP3R. Cell Calcium, 2021, 100, 102470.	2.4	1
115	Subcellular Ca ²⁺ Puffs Mediated By Different Inositol Trisphosphate Receptor Isoforms. FASEB Journal, 2018, 32, 750.33.	0.5	1
116	Preface. Cell Calcium, 2014, 55, 281.	2.4	0
117	ATP Potentiates Inositol 1,4,5-trisphosphate-induced Calcium Release in Permeabilized Parotid and Pancreatic Acini. FASEB Journal, 2008, 22, 1181.2.	0.5	0
118	Phospholipase C β Regulates Multiple Agonists-induced Cardiomyocyte Hypertrophy in Neonatal Rat Ventricular Myocytes By Binding To mAKAP (Muscle Arkinase Anchoring Protein) And Generating Local IP3-dependent Nuclear Calcium Release. FASEB Journal, 2011, 25, 1012.1.	0.5	0
119	Intracellular BiP/GRP78 Mediates Endothelial Cell Permeability and Inflammation Associated with Acute Lung Injury. FASEB Journal, 2019, 33, lb610.	0.5	0