Gary S Bird

List of Publications by Year
in descending order

75 papers	7,724 citations	50276 46 h-index	82547 72 g-index
77 all docs	77 docs citations	77 times ranked	5003 citing authors

#	Article	IF	Citations
1	The Inositol Phosphate-Calcium Signaling System in Nonexcitable Cells. Endocrine Reviews, 1993, 14, 610-631.	20.1	497
2	Spatial and temporal aspects of cellular calcium signaling. FASEB Journal, 1996, 10, 1505-1517.	0.5	484
3	Large Store-operated Calcium Selective Currents Due to Co-expression of Orai1 or Orai2 with the Intracellular Calcium Sensor, Stim1. Journal of Biological Chemistry, 2006, 281, 24979-24990.	3.4	484
4	The signal for capacitative calcium entry. Cell, 1993, 75, 199-201.	28.9	429
5	Defective mast cell effector functions in mice lacking the CRACM1 pore subunit of store-operated calcium releaseâ€"activated calcium channels. Nature Immunology, 2008, 9, 89-96.	14.5	372
6	Calcium Oscillations. Cold Spring Harbor Perspectives in Biology, 2011, 3, a004226-a004226.	5.5	231
7	Complex Actions of 2-Aminoethyldiphenyl Borate on Store-operated Calcium Entry. Journal of Biological Chemistry, 2008, 283, 19265-19273.	3.4	230
8	Comparison of Human TRPC3 Channels in Receptor-activated and Store-operated Modes. Journal of Biological Chemistry, 2002, 277, 21617-21623.	3.4	221
9	Role of the Phospholipase C-Inositol 1,4,5-Trisphosphate Pathway in Calcium Release-activated Calcium Current and Capacitative Calcium Entry. Journal of Biological Chemistry, 2001, 276, 15945-15952.	3.4	212
10	TRPC channels function independently of STIM1 and Orai1. Journal of Physiology, 2009, 587, 2275-2298.	2.9	207
11	The TRPC3/6/7 subfamily of cation channels. Cell Calcium, 2003, 33, 451-461.	2.4	201
12	Activation of Ca2+ entry into acinar cells by a non-phosphorylatable inositol trisphosphate. Nature, 1991, 352, 162-165.	27.8	192
13	Methods for studying store-operated calcium entry. Methods, 2008, 46, 204-212.	3.8	180
14	Human Trp3 forms both inositol trisphosphate receptor-dependent and receptor-independent store-operated cation channels in DT40 avian B lymphocytes. Proceedings of the National Academy of Sciences of the United States of America, 2001, 98, 11777-11782.	7.1	168
15	Ca2+-store-dependent and -independent reversal of Stim1 localization and function. Journal of Cell Science, 2008, 121, 762-772.	2.0	162
16	Subcellular distribution of the calcium-storing inositol 1,4,5-trisphosphate-sensitive organelle in rat liver. Possible linkage to the plasma membrane through the actin microfilaments. Biochemical Journal, 1991, 274, 643-650.	3.7	155
17	Signaling Mechanism for Receptor-activated Canonical Transient Receptor Potential 3 (TRPC3) Channels. Journal of Biological Chemistry, 2003, 278, 16244-16252.	3.4	146
18	Expression Level of the Canonical Transient Receptor Potential 3 (TRPC3) Channel Determines Its Mechanism of Activation. Journal of Biological Chemistry, 2003, 278, 21649-21654.	3.4	140

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19	STIM1 Is a Calcium Sensor Specialized for Digital Signaling. Current Biology, 2009, 19, 1724-1729.	3.9	139
20	Obligatory Role of Src Kinase in the Signaling Mechanism for TRPC3 Cation Channels. Journal of Biological Chemistry, 2004, 279, 40521-40528.	3.4	132
21	Signaling Pathways Underlying Muscarinic Receptor-induced [Ca2+] Oscillations in HEK293 Cells. Journal of Biological Chemistry, 2001, 276, 5613-5621.	3.4	127
22	Negative Regulation of TRPC3 Channels by Protein Kinase C-Mediated Phosphorylation of Serine 712. Molecular Pharmacology, 2005, 67, 558-563.	2.3	121
23	Role of the microtubule cytoskeleton in the function of the store-operated Ca2+ channel activator STIM1. Journal of Cell Science, 2007, 120, 3762-3771.	2.0	120
24	Mechanism of Inhibition of TRPC Cation Channels by 2-Aminoethoxydiphenylborane. Molecular Pharmacology, 2005, 68, 758-762.	2.3	113
25	Capacitative calcium entry supports calcium oscillations in human embryonic kidney cells. Journal of Physiology, 2005, 562, 697-706.	2.9	110
26	Complex functions of phosphatidylinositol 4,5-bisphosphate in regulation of TRPC5 cation channels. Pflugers Archiv European Journal of Physiology, 2009, 457, 757-769.	2.8	105
27	Essential role of stress hormone signaling in cardiomyocytes for the prevention of heart disease. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 17035-17040.	7.1	101
28	Role of the store-operated calcium entry proteins Stim1 and Orai1 in muscarinic cholinergic receptor-stimulated calcium oscillations in human embryonic kidney cells. Journal of Physiology, 2007, 579, 679-689.	2.9	95
29	The functions of store-operated calcium channels. Biochimica Et Biophysica Acta - Molecular Cell Research, 2017, 1864, 900-906.	4.1	92
30	Cytoplasmic calcium oscillations and storeâ€operated calcium influx. Journal of Physiology, 2008, 586, 3055-3059.	2.9	85
31	Amantadine protects dopamine neurons by a dual action: Reducing activation of microglia and inducing expression of GNDF in astroglia. Neuropharmacology, 2011, 61, 574-582.	4.1	84
32	Essential role of Orai1 store-operated calcium channels in lactation. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 5827-5832.	7.1	82
33	Mechanisms of Phospholipase C-Regulated Calcium Entry. Current Molecular Medicine, 2004, 4, 291-301.	1.3	78
34	A Calmodulin/Inositol 1,4,5-Trisphosphate (IP3) Receptor-binding Region Targets TRPC3 to the Plasma Membrane in a Calmodulin/IP3 Receptor-independent Process. Journal of Biological Chemistry, 2003, 278, 25758-25765.	3.4	77
35	Canonical transient receptor potential TRPC7 can function as both a receptor- and store-operated channel in HEK-293 cells. American Journal of Physiology - Cell Physiology, 2004, 287, C1709-C1716.	4.6	77
36	Effects of elevated cytoplasmic calcium and protein kinase C on endoplasmic reticulum structure and function in HEK293 cells. Cell Calcium, 2000, 27, 175-185.	2.4	72

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37	Switching between humoral and cellular immune responses in Drosophila is guided by the cytokine GBP. Nature Communications, 2014, 5, 4628.	12.8	64
38	Mutual Antagonism of Calcium Entry by Capacitative and Arachidonic Acid-mediated Calcium Entry Pathways. Journal of Biological Chemistry, 2001, 276, 20186-20189.	3.4	62
39	An inositol 1,4,5-trisphosphate receptor-dependent cation entry pathway in DT40 B lymphocytes. EMBO Journal, 2002, 21, 4531-4538.	7.8	59
40	Dissociation of Regulated Trafficking of TRPC3 Channels to the Plasma Membrane from Their Activation by Phospholipase C. Journal of Biological Chemistry, 2006, 281, 11712-11720.	3.4	59
41	Cell Type-specific Modes of Feedback Regulation of Capacitative Calcium Entry. Journal of Biological Chemistry, 1996, 271, 14807-14813.	3.4	58
42	A Selective Requirement for Elevated Calcium in DNA Degradation, but Not Early Events in Anti-Fas-induced Apoptosis. Journal of Biological Chemistry, 2000, 275, 30586-30596.	3.4	57
43	The Role of Canonical Transient Receptor Potential 7 in B-cell Receptor-activated Channels. Journal of Biological Chemistry, 2005, 280, 35346-35351.	3.4	55
44	Cloning and expression of the human transient receptor potential 4 (TRP4) gene: localization and functional expression of human TRP4 and TRP3. Biochemical Journal, 2000, 351, 735.	3.7	53
45	Effect of Inositol 1,3,4,5-Tetrakisphosphate on Inositol Trisphosphate-activated Ca2âº Signaling in Mouse Lacrimal Acinar Cells. Journal of Biological Chemistry, 1996, 271, 6766-6770.	3.4	52
46	Calcium entry signal?. Nature, 1995, 373, 481-482.	27.8	47
47	Techniques: High-throughput measurement of intracellular Ca ? back to basics. Trends in Pharmacological Sciences, 2005, 26, 218-223.	8.7	44
48	Calcium influx mechanisms underlying calcium oscillations in rat hepatocytes. Hepatology, 2008, 48, 1273-1281.	7.3	43
49	Relationship between the calcium-mobilizing action of inositol 1,4,5-trisphosphate in permeable AR4-2J cells and the estimated levels of inositol 1,4,5-trisphosphate in intact AR4-2J cells. Biochemical Journal, 1991, 273, 541-546.	3.7	41
50	Native TRPC7 Channel Activation by an Inositol Trisphosphate Receptor-dependent Mechanism. Journal of Biological Chemistry, 2006, 281, 25250-25258.	3.4	40
51	The Ca2+-mobilizing Actions of a Jurkat Cell Extract on Mammalian Cells and Xenopus laevis Oocytes. Journal of Biological Chemistry, 1995, 270, 8050-8055.	3.4	39
52	Deletion of Orai1 alters expression of multiple genes during osteoclast and osteoblast maturation. Cell Calcium, 2012, 52, 488-500.	2.4	39
53	Protection of TRPC7 cation channels from calcium inhibition by closely associated SERCA pumps. FASEB Journal, 2006, 20, 503-505.	0.5	38
54	Cytokine signaling through <i>Drosophila</i> Mthl10 ties lifespan to environmental stress. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 13786-13791.	7.1	36

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55	The N terminus of Orai1 couples to the AKAP79 signaling complex to drive NFAT1 activation by local Ca ²⁺ entry. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	35
56	Role of <i>Orai1</i> and storeâ€operated calcium entry in mouse lacrimal gland signalling and function. Journal of Physiology, 2014, 592, 927-939.	2.9	29
57	Calcium mobilization by inositol phosphates and other intracellular messengers. Trends in Endocrinology and Metabolism, 1994, 5, 256-260.	7.1	28
58	Mechanisms of activated Ca2+ entry in the rat pancreatoma cell line, AR4-2J. Cell Calcium, 1992, 13, 49-58.	2.4	27
59	Adenophostin A Induces Spatially Restricted Calcium Signaling in Xenopus laevis Oocytes. Journal of Biological Chemistry, 1999, 274, 20643-20649.	3.4	24
60	Male infertility in mice lacking the store-operated Ca2+ channel Orai1. Cell Calcium, 2016, 59, 189-197.	2.4	21
61	Calcium signaling in lacrimal glands. Cell Calcium, 2014, 55, 290-296.	2.4	19
62	Inositol polyphosphates and calcium signaling. Molecular and Cellular Neurosciences, 1992, 3, 1-10.	2.2	18
63	Effect of cytoplasmic Ca2+ on (1,4,S)IP3 formation in vasopressinmactivated hepatocytes. Cell Calcium, 1997, 21, 253-256.	2.4	17
64	Role of Inositol Phosphates in the Actions of Substance P on NK1Receptors in Exocrine Gl and Cells. Annals of the New York Academy of Sciences, 1991, 632, 94-102.	3.8	16
65	cGMP is not required for capacitative Ca2+ entry in Jurkat T-lymphocytes. Cell Calcium, 1996, 19, 351-354.	2.4	16
66	Activation of PLC by an endogenous cytokine (GBP) in <i>Drosophila</i> S3 cells and its application as a model for studying inositol phosphate signalling through ITPK1. Biochemical Journal, 2012, 448, 273-283.	3.7	13
67	Store-operated Ca2+ entry and Ca2+ responses to hypothalamic releasing hormones in anterior pituitary cells from Orai1â^'/â^' and heptaTRPC knockout mice. Biochimica Et Biophysica Acta - Molecular Cell Research, 2019, 1866, 1124-1136.	4.1	13
68	Cadmium Induces Transcription Independently of Intracellular Calcium Mobilization. PLoS ONE, 2011, 6, e20542.	2.5	13
69	Calcium Signalling in Lacrimal Acinar Cells. Advances in Experimental Medicine and Biology, 1998, 438, 123-128.	1.6	11
70	Pharmacology of Store-Operated Calcium Entry Channels. , 2017, , 311-324.		8
71	The Inositol Phosphate-Calcium Signalling System in Lacrimal Gland Cells. Advances in Experimental Medicine and Biology, 1994, 350, 115-119.	1.6	4
72	Regulation of calcium entry in exocrine gland cells and other epithelial cells. Journal of Medical Investigation, 2009, 56, 362-367.	0.5	4

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73	Store operated calcium entry in NIH-3T3 cells. Journal of Medical Investigation, 2009, 56, 381-382.	0.5	0
74	Differential Effects of PLC-Coupled Receptors on Intracellular Calcium Oscillations in HEK293 Cells. Biophysical Journal, 2015, 108, 105a.	0.5	0
75	Role of Orai1 and Store Operated Calcium Entry (SOCE) in Liver: Effects on Hormone-Induced Calcium Signaling and Glucose Metabolism. Biophysical Journal, 2019, 116, 236a-237a.	0.5	0