Jonathan S Marchant

List of Publications by Year
in descending order

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124 papers	5,058 citations	81839 39 h-index	102432 66 g-index
130 all docs	130 docs citations	130 times ranked	3964 citing authors

#	Article	IF	Citations
1	Essential requirement for two-pore channel 1 in NAADP-mediated calcium signaling. Journal of Cell Biology, 2009, 186, 201-209.	2.3	376
2	A continuum of InsP3-mediated elementary Ca2+signalling events inXenopusoocytes. Journal of Physiology, 1998, 509, 67-80.	1.3	227
3	Role of elementary Ca2+ puffs in generating repetitive Ca2+ oscillations. EMBO Journal, 2001, 20, 65-76.	3.5	190
4	Activation and co-ordination of InsP3-mediated elementary Ca2+events during global Ca2+signals inXenopusoocytes. Journal of Physiology, 1998, 509, 81-91.	1.3	154
5	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
6	Photoaffinity Labeling of Nicotinic Acid Adenine Dinucleotide Phosphate (NAADP) Targets in Mammalian Cells*. Journal of Biological Chemistry, 2012, 287, 2296-2307.	1.6	150
7	Dysregulation of lysosomal morphology by pathogenic LRRK2 is corrected by two-pore channel 2 inhibition. Journal of Cell Science, 2015, 128, 232-8.	1.2	148
8	Initiation of IP3-mediated Ca2+ waves in Xenopus oocytes. EMBO Journal, 1999, 18, 5285-5299.	3.5	138
9	An Ancestral Deuterostome Family of Two-pore Channels Mediates Nicotinic Acid Adenine Dinucleotide Phosphate-dependent Calcium Release from Acidic Organelles. Journal of Biological Chemistry, 2010, 285, 2897-2901.	1.6	112
10	Photoaffinity Labeling of High Affinity Nicotinic Acid Adenine Dinucleotide Phosphate (NAADP)-Binding Proteins in Sea Urchin Egg. Journal of Biological Chemistry, 2012, 287, 2308-2315.	1.6	110
11	The Two-pore channel (TPC) interactome unmasks isoform-specific roles for TPCs in endolysosomal morphology and cell pigmentation. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 13087-13092.	3.3	109
12	Expression and functional contribution of hTHTR-2 in thiamin absorption in human intestine. American Journal of Physiology - Renal Physiology, 2004, 286, G491-G498.	1.6	104
13	A Novel Biological Activity of Praziquantel Requiring Voltage-Operated Ca2+ Channel Î² Subunits: Subversion of Flatworm Regenerative Polarity. PLoS Neglected Tropical Diseases, 2009, 3, e464.	1.3	101
14	NAADP-dependent Ca2+ signaling regulates Middle East respiratory syndrome-coronavirus pseudovirus translocation through the endolysosomal system. Cell Calcium, 2018, 75, 30-41.	1.1	93
15	Multiphoton-evoked color change of DsRed as an optical highlighter for cellular and subcellular labeling. Nature Biotechnology, 2001, 19, 645-649.	9.4	92
16	Two-pore channels: Regulation by NAADP and customized roles in triggering calcium signals. Cell Calcium, 2010, 47, 480-490.	1.1	86
17	The anthelmintic drug praziquantel activates a schistosome transient receptor potential channel. Journal of Biological Chemistry, 2019, 294, 18873-18880.	1.6	81
18	Re-evaluation of the Role of Calcium Homeostasis Endoplasmic Reticulum Protein (CHERP) in Cellular Calcium Signaling. Journal of Biological Chemistry, 2013, 288, 355-367.	1.6	77

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19	Biotin-responsive basal ganglia disease-linked mutations inhibit thiamine transport via hTHTR2: biotin is not a substrate for hTHTR2. American Journal of Physiology - Cell Physiology, 2006, 291, C851-C859.	2.1	73
20	Disaccharide Polyphosphates Based upon Adenophostin A Activate Hepatic d-myo-Inositol 1,4,5-Trisphosphate Receptors. Biochemistry, 1997, 36, 12780-12790.	1.2	71
21	Essential requirement for JPT2 in NAADP-evoked Ca ²⁺ signaling. Science Signaling, 2021, 14, .	1.6	69
22	Rapid Activation and Partial Inactivation of Inositol Trisphosphate Receptors by Inositol Trisphosphateâ€. Biochemistry, 1998, 37, 11524-11533.	1.2	67
23	The anthelmintic praziquantel is a human serotoninergic G-protein-coupled receptor ligand. Nature Communications, 2017, 8, 1910.	5.8	66
24	A C-terminal Region Dictates the Apical Plasma Membrane Targeting of the Human Sodium-dependent Vitamin C Transporter-1 in Polarized Epithelia. Journal of Biological Chemistry, 2004, 279, 27719-27728.	1.6	64
25	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
26	Cell Biology of the Human Thiamine Transporter-1 (hTHTR1). Journal of Biological Chemistry, 2003, 278, 3976-3984.	1.6	59
27	Ca2+ channels and praziquantel: A view from the free world. Parasitology International, 2013, 62, 619-628.	0.6	55
28	Two-pore channels at the intersection of endolysosomal membrane traffic. Biochemical Society Transactions, 2015, 43, 434-441.	1.6	54
29	Timing in Cellular Ca2+ Signaling. Current Biology, 2008, 18, R769-R776.	1.8	52
30	Differential expression of human riboflavin transporters -1, -2, and -3 in polarized epithelia: A key role for hRFT-2 in intestinal riboflavin uptake. Biochimica Et Biophysica Acta - Biomembranes, 2011, 1808, 3016-3021.	1.4	50
31	Dual Mechanisms of sHA 14-1 in Inducing Cell Death through Endoplasmic Reticulum and Mitochondria. Molecular Pharmacology, 2009, 76, 667-678.	1.0	47
32	Opposing Roles of Voltage-Gated Ca²⁺Channels in Neuronal Control of Regenerative Patterning. Journal of Neuroscience, 2011, 31, 15983-15995.	1.7	47
33	Nicotinic Acid Adenine Dinucleotide 2 -Phosphate (NAADP) Binding Proteins in T-Lymphocytes. Messenger (Los Angeles, Calif: Print), 2012, 1, 86-94.	0.3	47
34	The Journey to Discovering a Flatworm Target of Praziquantel: A Long TRP. Trends in Parasitology, 2020, 36, 182-194.	1.5	47
35	Mechanism of praziquantel action at a parasitic flatworm ion channel. Science Translational Medicine, 2021, 13, eabj5832.	5.8	47
36	Structural and functional relationships between Ca²⁺ puffs and mitochondria in Xenopusoocytes. American Journal of Physiology - Cell Physiology, 2002, 282, C1374-C1386.	2.1	46

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37	Apical membrane targeting and trafficking of the human proton-coupled transporter in polarized epithelia. American Journal of Physiology - Cell Physiology, 2008, 294, C233-C240.	2.1	46
38	Tumor necrosis factor alpha reduces intestinal vitamin C uptake: a role for NF-Î¤B-mediated signaling. American Journal of Physiology - Renal Physiology, 2018, 315, G241-G248.	1.6	46
39	Inhibition of intestinal ascorbic acid uptake by lipopolysaccharide is mediated via transcriptional mechanisms. Biochimica Et Biophysica Acta - Biomembranes, 2018, 1860, 556-565.	1.4	44
40	Laterality in a non-visual sensory modality â€" the lateral line of fish. Current Biology, 2005, 15, R241-R242.	1.8	43
41	N-Glycosylation is required for Na+-dependent vitamin C transporter functionality. Biochemical and Biophysical Research Communications, 2008, 374, 123-127.	1.0	42
42	Genetic analysis of praziquantel response in schistosome parasites implicates a transient receptor potential channel. Science Translational Medicine, 2021, 13, eabj9114.	5.8	42
43	IP3 Receptor Activity Is Differentially Regulated in Endoplasmic Reticulum Subdomains during Oocyte Maturation. Current Biology, 2005, 15, 765-770.	1.8	41
44	Intracellular Trafficking and Membrane Targeting Mechanisms of the Human Reduced Folate Carrier in Mammalian Epithelial Cells. Journal of Biological Chemistry, 2002, 277, 33325-33333.	1.6	40
45	â€˜Death and Axesâ€™: Unexpected Ca2+ Entry Phenologs Predict New Anti-schistosomal Agents. PLoS Pathogens, 2014, 10, e1003942.	2.1	38
46	Polarized expression of members of the solute carrier SLC19A gene family of water-soluble multivitamin transporters: implications for physiological function. Biochemical Journal, 2003, 376, 43-48.	1.7	37
47	Targeting and Trafficking of the Human Thiamine Transporter-2 in Epithelial Cells. Journal of Biological Chemistry, 2006, 281, 5233-5245.	1.6	37
48	Membrane targeting and intracellular trafficking of the human sodium-dependent multivitamin transporter in polarized epithelial cells. American Journal of Physiology - Cell Physiology, 2009, 296, C663-C671.	2.1	36
49	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
50	Calcium-dependent Dephosphorylation Mediates the Hyperosmotic and Lysophosphatidic Acid-dependent Inhibition of Natriuretic Peptide Receptor-B/Guanylyl Cyclase-B. Journal of Biological Chemistry, 2004, 279, 48513-48519.	1.6	31
51	A Miniaturized Screen of a Schistosoma mansoni Serotonergic G Protein-Coupled Receptor Identifies Novel Classes of Parasite-Selective Inhibitors. PLoS Pathogens, 2016, 12, e1005651.	2.1	30
52	Tight junction targeting and intracellular trafficking of occludin in polarized epithelial cells. American Journal of Physiology - Cell Physiology, 2007, 293, C1717-C1726.	2.1	29
53	Molecular Characterization of a Novel Intracellular ADP-Ribosyl Cyclase. PLoS ONE, 2007, 2, e797.	1.1	29
54	Questioning Regulation of Two-Pore Channels by NAADP. Messenger (Los Angeles, Calif: Print), 2013, 2, 113-119.	0.3	28

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55	Role of cysteine residues in cell surface expression of the human riboflavin transporter-2 (hRFT2) in intestinal epithelial cells. American Journal of Physiology - Renal Physiology, 2011, 301, G100-G109.	1.6	27
56	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
57	Kinetics of elementary Ca2+ puffs evoked in Xenopus oocytes by different Ins(1,4,5)P3 receptor agonists. Biochemical Journal, 1998, 334, 505-509.	1.7	25
58	Modulation of Elementary Calcium Release Mediates a Transition from Puffs to Waves in an IP3R Cluster Model. PLoS Computational Biology, 2015, 11, e1003965.	1.5	25
59	A screening campaign in sea urchin egg homogenate as a platform for discovering modulators of NAADP-dependent Ca2+ signaling in human cells. Cell Calcium, 2018, 75, 42-52.	1.1	25
60	Vitamin B1 (thiamine) uptake by human retinal pigment epithelial (ARPE-19) cells: mechanism and regulation. Journal of Physiology, 2007, 582, 73-85.	1.3	24
61	Unique pharmacological properties of serotoninergic G-protein coupled receptors from cestodes. PLoS Neglected Tropical Diseases, 2018, 12, e0006267.	1.3	24
62	Intracellular trafficking/membrane targeting of human reduced folate carrier expressed in Xenopus oocytes. American Journal of Physiology - Renal Physiology, 2001, 281, G1477-G1486.	1.6	22
63	The Molecular Basis for Ca²⁺ Signalling by NAADP: Two-Pore Channels in a Complex?. Messenger (Los Angeles, Calif: Print), 2012, 1, 63-76.	0.3	22
64	Mitochondrial Uptake of Thiamin Pyrophosphate: Physiological and Cell Biological Aspects. PLoS ONE, 2013, 8, e73503.	1.1	22
65	Mechanisms of SARS-CoV-2 neutralization by shark variable new antigen receptors elucidated through X-ray crystallography. Nature Communications, 2021, 12, 7325.	5.8	22
66	Enhanced Ca2+ leak from ER Ca2+ stores induced by hepatitis C NS5A protein. Biochemical and Biophysical Research Communications, 2008, 368, 593-599.	1.0	20
67	A Rapid Western Blotting Protocol for the Xenopus Oocyte. Cold Spring Harbor Protocols, 2013, 2013, pdb.prot072793.	0.2	20
68	Ergot Alkaloids (Re)generate New Leads as Antiparasitics. PLoS Neglected Tropical Diseases, 2015, 9, e0004063.	1.3	20
69	Molecular mechanism(s) involved in differential expression of vitamin C transporters along the intestinal tract. American Journal of Physiology - Renal Physiology, 2017, 312, G340-G347.	1.6	20
70	Functional Interactions in Ca2+ Signaling over Different Time and Distance Scales. Journal of General Physiology, 2000, 116, 691-696.	0.9	19
71	Pharmacological profiling an abundantly expressed schistosome serotonergic GPCR identifies nuciferine as a potent antagonist. International Journal for Parasitology: Drugs and Drug Resistance, 2016, 6, 364-370.	1.4	19
72	Activation of host transient receptor potential (TRP) channels by praziquantel stereoisomers. PLoS Neglected Tropical Diseases, 2018, 12, e0006420.	1.3	19

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73	Xenopus tropicalis oocytes as an advantageous model system for the study of intracellular Ca2+ signalling. British Journal of Pharmacology, 2001, 132, 1396-1410.	2.7	18
74	Nuclear pore disassembly from endoplasmic reticulum membranes promotes Ca²⁺signalling competency. Journal of Physiology, 2008, 586, 2873-2888.	1.3	17
75	Molecular determinants dictating cell surface expression of the human sodium-dependent vitamin C transporter-2 in human liver cells. American Journal of Physiology - Renal Physiology, 2010, 298, G267-G274.	1.6	17
76	Kinetic profiling an abundantly expressed planarian serotonergic GPCR identifies bromocriptine as a perdurant antagonist. International Journal for Parasitology: Drugs and Drug Resistance, 2016, 6, 356-363.	1.4	17
77	Utilizing the planarian voltage-gated ion channel transcriptome to resolve a role for a Ca 2+ channel in neuromuscular function and regeneration. Biochimica Et Biophysica Acta - Molecular Cell Research, 2017, 1864, 1036-1045.	1.9	17
78	Inositol (1,4,5)-Trisphosphate Receptor Microarchitecture Shapes Ca2+ Puff Kinetics. Biophysical Journal, 2011, 100, 822-831.	0.2	16
79	Molecular characterization of a novel cell surface ADP-ribosyl cyclase from the sea urchin. Cellular Signalling, 2008, 20, 2347-2355.	1.7	15
80	Pharmacological and Functional Genetic Assays to Manipulate Regeneration of the Planarian Dugesia japonica. Journal of Visualized Experiments, 2011, , .	0.2	15
81	TMEM33 regulates intracellular calcium homeostasis in renal tubular epithelial cells. Nature Communications, 2019, 10, 2024.	5.8	15
82	5-Azido-8-ethynyl-NAADP: A bifunctional, clickable photoaffinity probe for the identification of NAADP receptors. Biochimica Et Biophysica Acta - Molecular Cell Research, 2019, 1866, 1180-1188.	1.9	15
83	Identification of novel modulators of a schistosome transient receptor potential channel targeted by praziquantel. PLoS Neglected Tropical Diseases, 2021, 15, e0009898.	1.3	15
84	NAADP-binding proteins find their identity. Trends in Biochemical Sciences, 2022, 47, 235-249.	3.7	15
85	Cellular Signalling: STIMulating Calcium Entry. Current Biology, 2005, 15, R493-R495.	1.8	14
86	Localization and socialization: Experimental insights into the functional architecture of IP3 receptors. Chaos, 2009, 19, 037103.	1.0	14
87	Inhibitory actions of GABA on rabbit urinary bladder muscle strips: mediation by potassium channels. British Journal of Pharmacology, 1995, 115, 81-83.	2.7	13
88	Improved â€œOptical Highlighterâ€•Probes Derived from Discosoma Red Fluorescent Protein. Biophysical Journal, 2005, 88, 1444-1457.	0.2	12
89	The Xenopus Oocyte: A Single-Cell Model for Studying Ca²⁺ Signaling. Cold Spring Harbor Protocols, 2013, 2013, pdb.top066308.	0.2	12
90	Dataset for a Dugesia japonica de novo transcriptome assembly, utilized for defining the voltage-gated like ion channel superfamily. Data in Brief, 2016, 9, 1044-1047.	0.5	12

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91	Coalescing beneficial host and deleterious antiparasitic actions as an antischistosomal strategy. ELife, 2018, 7, .	2.8	12
92	The inositol 1,4,5-trisphosphate receptor (Itpr) gene family in Xenopus: identification of type 2 and type 3 inositol 1,4,5-trisphosphate receptor subtypes. Biochemical Journal, 2007, 404, 383-391.	1.7	11
93	Targeting and intracellular trafficking of clinically relevant hTHTR1 mutations in human cell lines. Clinical Science, 2007, 113, 93-102.	1.8	11
94	Structure-activity profiling of alkaloid natural product pharmacophores against a Schistosoma serotonin receptor. International Journal for Parasitology: Drugs and Drug Resistance, 2018, 8, 550-558.	1.4	11
95	EnteropathogenicÂEscherichia coliÂInfection Inhibits Intestinal Ascorbic Acid Uptake via Dysregulation of Its Transporter Expression. Digestive Diseases and Sciences, 2021, 66, 2250-2260.	1.1	11
96	Glyoxalate reductase/hydroxypyruvate reductase interacts with the sodium-dependent vitamin C transporter-1 to regulate cellular vitamin C homeostasis. American Journal of Physiology - Renal Physiology, 2013, 304, G1079-G1086.	1.6	10
97	Activation of endo-lysosomal two-pore channels by NAADP and PI(3,5)P2. Five things to know.. Cell Calcium, 2022, 103, 102543.	1.1	10
98	Ca²⁺ Signaling and Regeneration. Cold Spring Harbor Perspectives in Biology, 2019, 11, a035485.	2.3	8
99	MicroRNA-103a regulates sodium-dependent vitamin C transporter-1 expression in intestinal epithelial cells. Journal of Nutritional Biochemistry, 2019, 65, 46-53.	1.9	8
100	EnterotoxigenicEscherichia coliheat labile enterotoxin inhibits intestinal ascorbic acid uptake via a cAMP-dependent NF-Î²B-mediated pathway. American Journal of Physiology - Renal Physiology, 2019, 316, G55-G63.	1.6	8
101	The ins and outs of virus trafficking through acidic Ca2+ stores. Cell Calcium, 2022, 102, 102528.	1.1	8
102	Nuclear Microinjection to Assess How Heterologously Expressed Proteins Impact Ca2+Signals inXenopusOocytes. Cold Spring Harbor Protocols, 2013, 2013, pdb.prot072785.	0.2	7
103	The synthesis and characterization of a clickable-photoactive NAADP analog active in human cells. Cell Calcium, 2019, 83, 102060.	1.1	7
104	Effect of Lipopolysaccharide and TNFÎ± on Neuronal Ascorbic Acid Uptake. Mediators of Inflammation, 2021, 2021, 1-11.	1.4	7
105	Histone deacetylase inhibitors regulate vitamin C transporter functional expression in intestinal epithelial cells. Journal of Nutritional Biochemistry, 2021, 98, 108838.	1.9	7
106	Modulation of Function of Sodium-Dependent Vitamin C Transporter 1 (SVCT1) by Rab8a in Intestinal Epithelial Cells: Studies Utilizing Caco-2 Cells and Rab8a Knockout Mice. Digestive Diseases and Sciences, 2013, 58, 641-649.	1.1	6
107	TPC1 Knockout Knocks Out TPC1. Molecular and Cellular Biology, 2015, 35, 1882-1883.	1.1	5
108	Heterologous Protein Expression in the Xenopus Oocyte. Cold Spring Harbor Protocols, 2018, 2018, pdb.prot096990.	0.2	5

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109	Calsyntenin-3 interacts with the sodium-dependent vitamin C transporter-2 to regulate vitamin C uptake. International Journal of Biological Macromolecules, 2021, 192, 1178-1184.	3.6	5
110	Making Heads or Tails: Planarian Stem Cells in the Classroom. Journal of Microbiology and Biology Education, 2014, 15, 18-25.	0.5	4
111	Probing Ca2+ release mechanisms using sea urchin egg homogenates. Methods in Cell Biology, 2019, 151, 445-458.	0.5	3
112	Chemo-enzymatic synthesis of adenine substituted nicotinic acid adenine dinucleotide phosphate (NAADP) analogs. Bioorganic and Medicinal Chemistry, 2021, 30, 115901.	1.4	3
113	Upregulation of Vitamin C Transporter Functional Expression in 5xFAD Mouse Intestine. Nutrients, 2021, 13, 617.	1.7	3
114	NAADP receptors: A one-two.. Cell Calcium, 2021, 100, 102478.	1.1	3
115	Characterization of a new type of neuronal 5-HT G- protein coupled receptor in the cestode nervous system. PLoS ONE, 2021, 16, e0259104.	1.1	3
116	Calcium Influx: Beyond â€˜Currentâ€™ Biology. Current Biology, 2006, 16, R548-R550.	1.8	2
117	The sigma 1 receptor: A local media influencer. Cell Calcium, 2021, 97, 102430.	1.1	2
118	Identification of a dihydropyridine scaffold that blocks ryanodine receptors. IScience, 2022, 25, 103706.	1.9	2
119	Characterization of a flatworm inositol (1,4,5) trisphosphate receptor (IP3R) reveals a role in reproductive physiology. Cell Calcium, 2013, 53, 307-314.	1.1	1
120	Teaching genetics: A genomic science bootcamp. Biochemist, 2007, 29, 36-37.	0.2	1
121	Cell biology of the human protonâ€coupled folate transporter (hPCFT) in renal epithelial MDCK cells. FASEB Journal, 2008, 22, 1156.2.	0.2	0
122	Psychoactive Drugs as a Route to Development of Novel Antiâ€parasitic Agents. FASEB Journal, 2017, 31, .	0.2	0
123	MicroRNAâ€103a plays a role in regulating human sodiumâ€dependent vitamin C transporterâ€1 (hSVCT1) in intestinal epithelial cells. FASEB Journal, 2019, 33, 826.2.	0.2	0
124	Inhibition of vitamin C transport impairs neuronal differentiation of hiPSCs. FASEB Journal, 2022, 36, .	0.2	0