Antony Giuseppe Galione

List of Publications by Year
in descending order

98 papers	7,447 citations	53660 45 h-index	54797 84 g-index
146 all docs	146 docs citations	146 times ranked	6897 citing authors

#	Article	IF	Citations
1	Niemann-Pick disease type C1 is a sphingosine storage disease that causes deregulation of lysosomal calcium. Nature Medicine, 2008, 14, 1247-1255.	15.2	730
2	NAADP mobilizes calcium from acidic organelles through two-pore channels. Nature, 2009, 459, 596-600.	13.7	687
3	NAADP Mobilizes Ca2+ from Reserve Granules, Lysosome-Related Organelles, in Sea Urchin Eggs. Cell, 2002, 111, 703-708.	13.5	442
4	Coordination of agonist-induced Ca2+-signalling patterns by NAADP in pancreatic acinar cells. Nature, 1999, 398, 74-76.	13.7	377
5	cGMP mobilizes intracellular Ca2+ in sea urchin eggs by stimulating cyclic ADP-ribose synthesis. Nature, 1993, 365, 456-459.	13.7	343
6	Molecular mechanisms of endolysosomal Ca2+ signalling in health and disease. Biochemical Journal, 2011, 439, 349-378.	1.7	329
7	Identification of a chemical probe for NAADP by virtual screening. Nature Chemical Biology, 2009, 5, 220-226.	3.9	274
8	Organelle Selection Determines Agonist-specific Ca2+ Signals in Pancreatic Acinar and Î² Cells. Journal of Biological Chemistry, 2004, 279, 7234-7240.	1.6	192
9	NAADP. Current Biology, 2003, 13, 247-251.	1.8	159
10	Unique Inactivation Properties of NAADP-sensitive Ca2+ Release. Journal of Biological Chemistry, 1996, 271, 11599-11602.	1.6	153
11	Expression of Ca ²⁺ â€permeable twoâ€pore channels rescues <scp>NAADP</scp> signalling in <scp>TPC</scp> â€deficient cells. EMBO Journal, 2015, 34, 1743-1758.	3.5	144
12	VEGF-induced neoangiogenesis is mediated by NAADP and two-pore channel-2â€“dependent Ca ²⁺ signaling. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, E4706-15.	3.3	138
13	Bidirectional Ca2+ signaling occurs between the endoplasmic reticulum and acidic organelles. Journal of Cell Biology, 2013, 200, 789-805.	2.3	137
14	NAADP Activates Two-Pore Channels on T Cell Cytolytic Granules to Stimulate Exocytosis and Killing. Current Biology, 2012, 22, 2331-2337.	1.8	121
15	Calcium signaling via two-pore channels: local or global, that is the question. American Journal of Physiology - Cell Physiology, 2010, 298, C430-C441.	2.1	117
16	Intracellular sphingosine releases calcium from lysosomes. ELife, 2015, 4, .	2.8	115
17	A primer of NAADP-mediated Ca2+ signalling: From sea urchin eggs to mammalian cells. Cell Calcium, 2015, 58, 27-47.	1.1	110
18	Cyclic ADP-ribose-induced Ca2+release from rat brain microsomes. FEBS Letters, 1993, 318, 259-263.	1.3	106

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19	Nicotinic acid adenine dinucleotide phosphate triggers Ca2+ release from brain microsomes. Current Biology, 1999, 9, 751-754.	1.8	98
20	NAADP as a second messenger: neither CD38 nor base-exchange reaction are necessary for in vivo generation of NAADP in myometrial cells. American Journal of Physiology - Cell Physiology, 2007, 292, C227-C239.	2.1	96
21	The Ecto-enzyme CD38 Is a Nicotinic Acid Adenine Dinucleotide Phosphate (NAADP) Synthase That Couples Receptor Activation to Ca2+ Mobilization from Lysosomes in Pancreatic Acinar Cells. Journal of Biological Chemistry, 2010, 285, 38251-38259.	1.6	94
22	The NAADP Receptor: New Receptors or New Regulation?. Molecular Interventions: Pharmacological Perspectives From Biology, Chemistry and Genomics, 2005, 5, 73-79.	3.4	94
23	NAADP as an intracellular messenger regulating lysosomal calcium-release channels. Biochemical Society Transactions, 2010, 38, 1424-1431.	1.6	91
24	The acid test: the discovery of two-pore channels (TPCs) as NAADP-gated endolysosomal Ca2+ release channels. Pflugers Archiv European Journal of Physiology, 2009, 458, 869-876.	1.3	86
25	Spatial Control of Ca2+ Signaling by Nicotinic Acid Adenine Dinucleotide Phosphate Diffusion and Gradients. Journal of Biological Chemistry, 2000, 275, 38687-38692.	1.6	81
26	Reconstituted Human TPC1 Is a Proton-Permeable Ion Channel and Is Activated by NAADP or Ca ²⁺. Science Signaling, 2014, 7, ra46.	1.6	79
27	TPC1 Has Two Variant Isoforms, and Their Removal Has Different Effects on Endo-Lysosomal Functions Compared to Loss of TPC2. Molecular and Cellular Biology, 2014, 34, 3981-3992.	1.1	76
28	Cell-permeant NAADP: A novel chemical tool enabling the study of Ca2+ signalling in intact cells. Cell Calcium, 2008, 43, 531-538.	1.1	73
29	Effects of photoreleased cADP-ribose on calcium transients and calcium sparks in myocytes isolated from guinea-pig and rat ventricle. Biochemical Journal, 1999, 342, 269-273.	1.7	71
30	Lysosomal Two-pore Channel Subtype 2 (TPC2) Regulates Skeletal Muscle Autophagic Signaling. Journal of Biological Chemistry, 2015, 290, 3377-3389.	1.6	69
31	Ebolavirus Glycoprotein Directs Fusion through NPC1 ⁺ Endolysosomes. Journal of Virology, 2016, 90, 605-610.	1.5	67
32	Adenosine integrates light and sleep signalling for the regulation of circadian timing in mice. Nature Communications, 2021, 12, 2113.	5.8	66
33	Cyclic aristeromycin diphosphate ribose: A potent and poorly hydrolysable Ca2+-mobilising mimic of cyclic adenosine diphosphate ribose. FEBS Letters, 1996, 379, 227-230.	1.3	63
34	Two-pore Channels (TPC2s) and Nicotinic Acid Adenine Dinucleotide Phosphate (NAADP) at Lysosomal-Sarcoplasmic Reticular Junctions Contribute to Acute and Chronic Î²-Adrenoceptor Signaling in the Heart. Journal of Biological Chemistry, 2015, 290, 30087-30098.	1.6	63
35	Actions of cADP-Ribose and Its Antagonists on Contraction in Guinea Pig Isolated Ventricular Myocytes. Circulation Research, 1997, 81, 879-884.	2.0	62
36	Adrenaline Stimulates Glucagon Secretion by Tpc2-Dependent Ca2+ Mobilization From Acidic Stores in Pancreatic Î±-Cells. Diabetes, 2018, 67, 1128-1139.	0.3	61

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37	High resolution structural evidence suggests the Sarcoplasmic Reticulum forms microdomains with Acidic Stores (lysosomes) in the heart. Scientific Reports, 2017, 7, 40620.	1.6	59
38	Widespread Distribution of Binding Sites for the Novel Ca2+-mobilizing Messenger, Nicotinic Acid Adenine Dinucleotide Phosphate, in the Brain. Journal of Biological Chemistry, 2000, 275, 36495-36497.	1.6	57
39	<scp>NAADP</scp> â€regulated twoâ€pore channels drive phagocytosis through endoâ€lysosomal Ca ²⁺ nanodomains, calcineurin and dynamin. EMBO Journal, 2020, 39, e104058.	3.5	54
40	NAADP-mediated channel â€˜chatterâ€™ in neurons of the rat medulla oblongata. Biochemical Journal, 2009, 419, 91-99.	1.7	53
41	NAADP Receptors. Cold Spring Harbor Perspectives in Biology, 2011, 3, a004036-a004036.	2.3	52
42	Unique kinetics of nicotinic acidâ€“adenine dinucleotide phosphate (NAADP) binding enhance the sensitivity of NAADP receptors for their ligand. Biochemical Journal, 2000, 352, 725-729.	1.7	51
43	NAADP receptors. Cell Calcium, 2005, 38, 273-280.	1.1	51
44	Two-pore Channels Form Homo- and Heterodimers. Journal of Biological Chemistry, 2011, 286, 37058-37062.	1.6	51
45	Nicotinic Acid Adenine Dinucleotide Phosphate (NAADP) and Endolysosomal Two-pore Channels Modulate Membrane Excitability and Stimulus-Secretion Coupling in Mouse Pancreatic Î² Cells. Journal of Biological Chemistry, 2015, 290, 21376-21392.	1.6	48
46	Oxytocin Influences Male Sexual Activity via Non-synaptic Axonal Release in the Spinal Cord. Current Biology, 2021, 31, 103-114.e5.	1.8	45
47	Identification of a Novel Gene for Diabetic Traits in Rats, Mice, and Humans. Genetics, 2014, 198, 17-29.	1.2	44
48	Synthesis of the Ca2+-mobilizing messengers NAADP and cADPR by intracellular CD38 enzyme in the mouse heart: Role in Î²-adrenoceptor signaling. Journal of Biological Chemistry, 2017, 292, 13243-13257.	1.6	44
49	NAADP Receptors. Cold Spring Harbor Perspectives in Biology, 2019, 11, a035071.	2.3	43
50	Optogenetic Control of Heart Rhythm by Selective Stimulation of Cardiomyocytes Derived from Pnmt+ Cells in Murine Heart. Scientific Reports, 2017, 7, 40687.	1.6	42
51	TPC: the NAADP discovery channel?. Biochemical Society Transactions, 2015, 43, 384-389.	1.6	41
52	Hippocampal mGluR1-dependent long-term potentiation requires NAADP-mediated acidic store Ca ²⁺ signaling. Science Signaling, 2018, 11, .	1.6	41
53	Unveiling (â˜)â€Englerinâ€…A as a Modulator of Lâ€Type Calcium Channels. Angewandte Chemie - International Edition, 2016, 55, 11077-11081.	7.2	37
54	Current methods to analyze lysosome morphology, positioning, motility and function. Traffic, 2022, 23, 238-269.	1.3	37

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55	Ca2+ Release from the Endoplasmic Reticulum of NY-ESO-1â€“Specific T Cells Is Modulated by the Affinity of TCR and by the Use of the CD8 Coreceptor. Journal of Immunology, 2010, 184, 1829-1839.	0.4	36
56	Imaging approaches to measuring lysosomal calcium. Methods in Cell Biology, 2015, 126, 159-195.	0.5	36
57	Pharmacological characterization of the putative cADP-ribose receptor. Biochemical Journal, 2001, 359, 451-457.	1.7	30
58	Pathogenic mycobacteria achieve cellular persistence by inhibiting the Niemann-Pick Type C disease cellular pathway. Wellcome Open Research, 0, 1, 18.	0.9	30
59	An emerging role for NAADP-mediated Ca²⁺signaling in the pancreatic Î²-cell. Islets, 2010, 2, 323-330.	0.9	29
60	Physiological roles of NAADP-mediated Ca2+ signaling. Science China Life Sciences, 2011, 54, 725-732.	2.3	26
61	The two pore channel TPC2 is dispensable in pancreatic Î²-cells for normal Ca2+ dynamics and insulin secretion. Cell Calcium, 2016, 59, 32-40.	1.1	26
62	Pathogenic mycobacteria achieve cellular persistence by inhibiting the Niemann-Pick Type C disease cellular pathway. Wellcome Open Research, 2016, 1, 18.	0.9	26
63	Two-Pore Channels: Lessons from Mutant Mouse Models. Messenger (Los Angeles, Calif: Print), 2015, 4, 4-22.	0.3	22
64	Ca 2+ release via two-pore channel type 2 (TPC2) is required for slow muscle cell myofibrillogenesis and myotomal patterning in intact zebrafish embryos. Developmental Biology, 2017, 425, 109-129.	0.9	22
65	Unexpected differences in the pharmacokinetics of N-acetyl-DL-leucine enantiomers after oral dosing and their clinical relevance. PLoS ONE, 2020, 15, e0229585.	1.1	21
66	A multiscale analysis in CD38 ^{â^'/â^'} mice unveils major prefrontal cortex dysfunctions. FASEB Journal, 2019, 33, 5823-5835.	0.2	19
67	AMP-Activated Protein Kinase Couples Mitochondrial Inhibition by Hypoxia to Cell-Specific Ca2+ Signalling Mechanisms in Oxygensensing Cells. Novartis Foundation Symposium, 0, , 234-258.	1.2	19
68	Does lysosomal rupture evoke Ca2+ release? A question of pores and stores. Cell Calcium, 2020, 86, 102139.	1.1	18
69	A two-pore channel protein required for regulating mTORC1 activity on starvation. BMC Biology, 2020, 18, 8.	1.7	16
70	Acetylation turns leucine into a drug by membrane transporter switching. Scientific Reports, 2021, 11, 15812.	1.6	16
71	Pyridine Nucleotide Metabolites and Calcium Release from Intracellular Stores. Advances in Experimental Medicine and Biology, 2020, 1131, 371-394.	0.8	15
72	Mechanistic convergence and shared therapeutic targets in Niemannâ€Pick disease. Journal of Inherited Metabolic Disease, 2020, 43, 574-585.	1.7	13

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73	Acidic Ca2+ stores and immune-cell function. Cell Calcium, 2022, 101, 102516.	1.1	12
74	Pyridine Nucleotide Metabolites and Calcium Release from Intracellular Stores. Advances in Experimental Medicine and Biology, 2012, 740, 305-323.	0.8	10
75	TPC2-mediated Ca2+ signaling is required for the establishment of synchronized activity in developing zebrafish primary motor neurons. Developmental Biology, 2018, 438, 57-68.	0.9	10
76	Characterization of ADP-ribosyl cyclase 1-like (ARC1-like) activity and NAADP signaling during slow muscle cell development in zebrafish embryos. Developmental Biology, 2019, 445, 211-225.	0.9	10
77	Choreographing endo-lysosomal Ca2+ throughout the life of a phagosome. Biochimica Et Biophysica Acta - Molecular Cell Research, 2021, 1868, 119040.	1.9	10
78	Defective platelet function in <scp>Niemannâ€Pick</scp> disease type <scp>C1</scp>. JIMD Reports, 2020, 56, 46-57.	0.7	9
79	Glucose and NAADP trigger elementary intracellular Î²-cell Ca2+ signals. Scientific Reports, 2021, 11, 10714.	1.6	9
80	Preferential Coupling of the NAADP Pathway to Exocytosis in T-Cells. Messenger (Los Angeles, Calif:) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	0.3	8
81	Unveiling (â^)â€Englerinâ€...A as a Modulator of Lâ€Type Calcium Channels. Angewandte Chemie, 2016, 128, 11243-11247.	1.6	7
82	Preparation and Use of Sea Urchin Egg Homogenates for Studying NAADP-Mediated Ca2+ Release. Cold Spring Harbor Protocols, 2014, 2014, pdb.prot076901-pdb.prot076901.	0.2	6
83	Synthesis of NAADP-AM as a Membrane-Permeant NAADP Analog. Cold Spring Harbor Protocols, 2014, 2014, pdb.prot076927.	0.2	3
84	Carvedilol Inhibits cADPR- and IP3-Induced Ca2+ Release. Messenger (Los Angeles, Calif: Print), 2016, 5, 92-99.	0.3	3
85	Revealing the secrets of secretion. ELife, 2018, 7, .	2.8	3
86	Lysosomal agents inhibit store-operated Ca2+ entry. Journal of Cell Science, 2020, 134, .	1.2	2
87	A tribute to Professor Sir Michael J. Berridge FRS (1938â€“2020). Biochimica Et Biophysica Acta - Molecular Cell Research, 2021, 1868, 119014.	1.9	2
88	Synthesis of [³²P]NAADP for the Radioreceptor Binding Assay. Cold Spring Harbor Protocols, 2014, 2014, pdb.prot076919.	0.2	1
89	Measurement of Luminal pH of Acidic Stores as a Readout for NAADP Action. Cold Spring Harbor Protocols, 2014, 2014, pdb.prot076935.	0.2	1
90	Reply to â€œTPC1 Knockout Knocks Out TPC1â€• Molecular and Cellular Biology, 2015, 35, 1884-1884.	1.1	1

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91	A modified density gradient proteomic-based method to analyze endolysosomal proteins in cardiac tissue. IScience, 2021, 24, 102949.	1.9	1
92	Synthesis of Caged NAADP. Cold Spring Harbor Protocols, 2014, 2014, pdb.prot076943-pdb.prot076943.	0.2	0
93	A cellular protection racket: How lysosomal Ca2+ fluxes prevent kidney injury. Cell Calcium, 2021, 93, 102328.	1.1	0
94	A novel signalling role for NAADP in arterial smooth muscle. FASEB Journal, 2013, 27, 877.5.	0.2	0
95	Title is missing!. , 2020, 15, e0229585.		0
96	Title is missing!. , 2020, 15, e0229585.		0
97	Title is missing!. , 2020, 15, e0229585.		0
98	Title is missing!. , 2020, 15, e0229585.		0