Antony Giuseppe Galione

List of Publications by Citations

99 papers	6,336 citations	42 h-index	79 g-index
146 ext. papers	6,923 ext. citations	7.8 avg, IF	5.72 L-index

#	Paper	IF	Citations
99	Niemann-Pick disease type C1 is a sphingosine storage disease that causes deregulation of lysosomal calcium. *Nature Medicine*, **2008**, 14, 1247-55	50.5	632
98	NAADP mobilizes calcium from acidic organelles through two-pore channels. *Nature*, **2009**, 459, 596-600	50.4	603
97	NAADP mobilizes Ca(2+) from reserve granules, lysosome-related organelles, in sea urchin eggs. *Cell*, **2002**, 111, 703-8	56.2	408
96	Coordination of agonist-induced Ca2+-signalling patterns by NAADP in pancreatic acinar cells. *Nature*, **1999**, 398, 74-6	50.4	346
95	cGMP mobilizes intracellular Ca2+ in sea urchin eggs by stimulating cyclic ADP-ribose synthesis. *Nature*, **1993**, 365, 456-9	50.4	320
94	Molecular mechanisms of endolysosomal Ca2+ signalling in health and disease. *Biochemical Journal*, **2011**, 439, 349-74	3.8	278
93	Identification of a chemical probe for NAADP by virtual screening. *Nature Chemical Biology*, **2009**, 5, 220-6	11.7	245
92	Organelle selection determines agonist-specific Ca2+ signals in pancreatic acinar and beta cells. *Journal of Biological Chemistry*, **2004**, 279, 7234-40	5.4	180
91	NAADP: a new second messenger for glucose-induced Ca2+ responses in clonal pancreatic beta cells. *Current Biology*, **2003**, 13, 247-51	6.3	148
90	Unique inactivation properties of NAADP-sensitive Ca2+ release. *Journal of Biological Chemistry*, **1996**, 271, 11599-602	5.4	141
89	Bidirectional Ca□+ signaling occurs between the endoplasmic reticulum and acidic organelles. *Journal of Cell Biology*, **2013**, 200, 789-805	7.3	118
88	VEGF-induced neoangiogenesis is mediated by NAADP and two-pore channel-2-dependent Ca2+ signaling. *Proceedings of the National Academy of Sciences of the United States of America*, **2014**, 111, E4706-15	11.5	116
87	Expression of Ca□+-permeable two-pore channels rescues NAADP signalling in TPC-deficient cells. *EMBO Journal*, **2015**, 34, 1743-58	13	114
86	NAADP activates two-pore channels on T cell cytolytic granules to stimulate exocytosis and killing. *Current Biology*, **2012**, 22, 2331-7	6.3	110
85	Calcium signaling via two-pore channels: local or global, that is the question. *American Journal of Physiology - Cell Physiology*, **2010**, 298, C430-41	5.4	102
84	Cyclic ADP-ribose-induced Ca2+ release from rat brain microsomes. *FEBS Letters*, **1993**, 318, 259-63	3.8	100
83	Nicotinic acid adenine dinucleotide phosphate triggers Ca2+ release from brain microsomes. *Current Biology*, **1999**, 9, 751-4	6.3	94

82	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, C227-39	5.4	92
81	Intracellular sphingosine releases calcium from lysosomes. *ELife*, **2015**, 4,	8.9	90
80	A primer of NAADP-mediated Ca(2+) signalling: From sea urchin eggs to mammalian cells. *Cell Calcium*, **2015**, 58, 27-47	4	90
79	The NAADP receptor: new receptors or new regulation?. *Molecular Interventions: Pharmacological Perspectives From Biology, Chemistry and Genomics*, **2005**, 5, 73-9		90
78	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, 38251-9	5.4	83
77	NAADP as an intracellular messenger regulating lysosomal calcium-release channels. *Biochemical Society Transactions*, **2010**, 38, 1424-31	5.1	80
76	Spatial control of Ca2+ signaling by nicotinic acid adenine dinucleotide phosphate diffusion and gradients. *Journal of Biological Chemistry*, **2000**, 275, 38687-92	5.4	77
75	The acid test: the discovery of two-pore channels (TPCs) as NAADP-gated endolysosomal Ca(2+) release channels. *Pflugers Archiv European Journal of Physiology*, **2009**, 458, 869-76	4.6	75
74	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, 3981-92	4.8	67
73	Cell-permeant NAADP: a novel chemical tool enabling the study of Ca2+ signalling in intact cells. *Cell Calcium*, **2008**, 43, 531-8	4	67
72	Reconstituted human TPC1 is a proton-permeable ion channel and is activated by NAADP or Ca2+. *Science Signaling*, **2014**, 7, ra46	8.8	65
71	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	3.8	64
70	Cyclic aristeromycin diphosphate ribose: a potent and poorly hydrolysable Ca(2+)-mobilising mimic of cyclic adenosine diphosphate ribose. *FEBS Letters*, **1996**, 379, 227-30	3.8	58
69	Ebolavirus Glycoprotein Directs Fusion through NPC1+ Endolysosomes. *Journal of Virology*, **2016**, 90, 605-10	6.6	57
68	Lysosomal two-pore channel subtype 2 (TPC2) regulates skeletal muscle autophagic signaling. *Journal of Biological Chemistry*, **2015**, 290, 3377-89	5.4	55
67	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, 36495-7	5.4	54
66	Actions of cADP-ribose and its antagonists on contraction in guinea pig isolated ventricular myocytes. Influence of temperature. *Circulation Research*, **1997**, 81, 879-84	15.7	52
65	NAADP receptors. *Cold Spring Harbor Perspectives in Biology*, **2011**, 3, a004036	10.2	50

64	Two-pore channels form homo- and heterodimers. *Journal of Biological Chemistry*, **2011**, 286, 37058-62	5.4	49
63	Unique kinetics of nicotinic acid□adenine dinucleotide phosphate (NAADP) binding enhance the sensitivity of NAADP receptors for their ligand. *Biochemical Journal*, **2000**, 352, 725-729	3.8	49
62	NAADP-mediated channel ⚛chatter⚛in neurons of the rat medulla oblongata. *Biochemical Journal*, **2009**, 419, 91-7, 2 p following 97	3.8	47
61	NAADP receptors. *Cell Calcium*, **2005**, 38, 273-80	4	47
60	Adrenaline Stimulates Glucagon Secretion by Tpc2-Dependent Ca Mobilization From Acidic Stores in Pancreatic □Cells. *Diabetes*, **2018**, 67, 1128-1139	0.9	46
59	Two-pore Channels (TPC2s) and Nicotinic Acid Adenine Dinucleotide Phosphate (NAADP) at Lysosomal-Sarcoplasmic Reticular Junctions Contribute to Acute and Chronic □-Adrenoceptor Signaling in the Heart. *Journal of Biological Chemistry*, **2015**, 290, 30087-98	5.4	44
58	Nicotinic Acid Adenine Dinucleotide Phosphate (NAADP) and Endolysosomal Two-pore Channels Modulate Membrane Excitability and Stimulus-Secretion Coupling in Mouse Pancreatic □Cells. *Journal of Biological Chemistry*, **2015**, 290, 21376-92	5.4	43
57	High resolution structural evidence suggests the Sarcoplasmic Reticulum forms microdomains with Acidic Stores (lysosomes) in the heart. *Scientific Reports*, **2017**, 7, 40620	4.9	36
56	Identification of a novel gene for diabetic traits in rats, mice, and humans. *Genetics*, **2014**, 198, 17-29	4	36
55	Synthesis of the Ca-mobilizing messengers NAADP and cADPR by intracellular CD38 enzyme in the mouse heart: Role in □-adrenoceptor signaling. *Journal of Biological Chemistry*, **2017**, 292, 13243-13257	5.4	35
54	TPC: the NAADP discovery channel?. *Biochemical Society Transactions*, **2015**, 43, 384-9	5.1	35
53	Optogenetic Control of Heart Rhythm by Selective Stimulation of Cardiomyocytes Derived from Pnmt Cells in Murine Heart. *Scientific Reports*, **2017**, 7, 40687	4.9	32
52	NAADP-regulated two-pore channels drive phagocytosis through endo-lysosomal Ca nanodomains, calcineurin and dynamin. *EMBO Journal*, **2020**, 39, e104058	13	32
51	Ca2+ release from the endoplasmic reticulum of NY-ESO-1-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	5.3	31
50	Imaging approaches to measuring lysosomal calcium. *Methods in Cell Biology*, **2015**, 126, 159-95	1.8	30
49	Unveiling (-)-Englerin A as a Modulator of L-Type Calcium Channels. *Angewandte Chemie - International Edition*, **2016**, 55, 11077-81	16.4	29
48	Pharmacological characterization of the putative cADP-ribose receptor. *Biochemical Journal*, **2001**, 359, 451-457	3.8	29
47	NAADP Receptors. *Cold Spring Harbor Perspectives in Biology*, **2019**, 11,	10.2	28

46	An emerging role for NAADP-mediated Ca2+ signaling in the pancreatic □-cell. *Islets*, **2010**, 2, 323-30	2	28
45	Physiological roles of NAADP-mediated Ca2+ signaling. *Science China Life Sciences*, **2011**, 54, 725-32	8.5	24
44	Hippocampal mGluR1-dependent long-term potentiation requires NAADP-mediated acidic store Ca signaling. *Science Signaling*, **2018**, 11,	8.8	24
43	Pathogenic mycobacteria achieve cellular persistence by inhibiting the Niemann-Pick Type C disease cellular pathway. *Wellcome Open Research*,1, 18	4.8	21
42	The two pore channel TPC2 is dispensable in pancreatic □-cells for normal Ca□+ dynamics and insulin secretion. *Cell Calcium*, **2016**, 59, 32-40	4	20
41	Oxytocin Influences Male Sexual Activity via Non-synaptic Axonal Release in the Spinal Cord. *Current Biology*, **2021**, 31, 103-114.e5	6.3	19
40	Ca 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	3.1	17
39	Two-Pore Channels: Lessons from Mutant Mouse Models. *Messenger (Los Angeles, Calif: Print)*, **2015**, 4, 4-22		17
38	Adenosine integrates light and sleep signalling for the regulation of circadian timing in mice. *Nature Communications*, **2021**, 12, 2113	17.4	17
37	Pathogenic mycobacteria achieve cellular persistence by inhibiting the Niemann-Pick Type C disease cellular pathway. *Wellcome Open Research*, **2016**, 1, 18	4.8	13
36	A multiscale analysis in CD38 mice unveils major prefrontal cortex dysfunctions. *FASEB Journal*, **2019**, 33, 5823-5835	0.9	12
35	AMP-Activated Protein Kinase Couples Mitochondrial Inhibition by Hypoxia to Cell-Specific Ca2+ Signalling Mechanisms in Oxygensensing Cells. *Novartis Foundation Symposium*,234-258		12
34	A two-pore channel protein required for regulating mTORC1 activity on starvation. *BMC Biology*, **2020**, 18, 8	7.3	11
33	Does lysosomal rupture evoke Ca release? A question of pores and stores. *Cell Calcium*, **2020**, 86, 102139	4	11
32	Unexpected differences in the pharmacokinetics of N-acetyl-DL-leucine enantiomers after oral dosing and their clinical relevance. *PLoS ONE*, **2020**, 15, e0229585	3.7	10
31	TPC2-mediated Ca signaling is required for the establishment of synchronized activity in developing zebrafish primary motor neurons. *Developmental Biology*, **2018**, 438, 57-68	3.1	9
30	Preferential Coupling of the NAADP Pathway to Exocytosis in T-Cells. *Messenger (Los Angeles, Calif: Print)*, **2015**, 4, 53-66		8
29	Pyridine Nucleotide Metabolites and Calcium Release from Intracellular Stores. *Advances in Experimental Medicine and Biology*, **2020**, 1131, 371-394	3.6	8

28	Pyridine nucleotide metabolites and calcium release from intracellular stores. *Advances in Experimental Medicine and Biology*, **2012**, 740, 305-23	3.6	7
27	Mechanistic convergence and shared therapeutic targets in Niemann-Pick disease. *Journal of Inherited Metabolic Disease*, **2020**, 43, 574-585	5.4	7
26	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	3.1	7
25	Preparation and use of sea urchin egg homogenates for studying NAADP-mediated Ca□+ release. *Cold Spring Harbor Protocols*, **2014**, 2014, 988-92	1.2	6
24	Choreographing endo-lysosomal Ca throughout the life of a phagosome. *Biochimica Et Biophysica Acta - Molecular Cell Research*, **2021**, 1868, 119040	4.9	5
23	Unveiling (□-Englerin A as a Modulator of L-Type Calcium Channels. *Angewandte Chemie*, **2016**, 128, 11243-11247	3.6	5
22	Synthesis of NAADP-AM as a membrane-permeant NAADP analog. *Cold Spring Harbor Protocols*, **2014**, 2014, pdb.prot076927	1.2	3
21	Carvedilol inhibits cADPR- and IP-induced Ca release. *Messenger (Los Angeles, Calif: Print)*, **2016**, 5, 92-99		3
20	Current methods to analyse lysosome morphology, positioning, motility and function.. *Traffic*, **2022**,	5.7	3
19	Defective platelet function in Niemann-Pick disease type C1. *JIMD Reports*, **2020**, 56, 46-57	1.9	2
18	Reply to "TPC1 Knockout Knocks Out TPC1". *Molecular and Cellular Biology*, **2015**, 35, 1884	4.8	1
17	Measurement of luminal pH of acidic stores as a readout for NAADP action. *Cold Spring Harbor Protocols*, **2014**, 2014, pdb.prot076935	1.2	1
16	Acetylation of L-leucine switches its carrier from the L-amino acid transporter (LAT) to organic anion transporters (OAT)		1
15	Acidic Ca stores and immune-cell function.. *Cell Calcium*, **2021**, 101, 102516	4	1
14	Revealing the secrets of secretion. *ELife*, **2018**, 7,	8.9	1
13	Lysosomal agents inhibit store-operated Ca entry. *Journal of Cell Science*, **2021**, 134,	5.3	1
12	A tribute to Professor Sir Michael J. Berridge FRS (1938-2020). *Biochimica Et Biophysica Acta - Molecular Cell Research*, **2021**, 1868, 119014	4.9	1
11	Glucose and NAADP trigger elementary intracellular □-cell Ca signals. *Scientific Reports*, **2021**, 11, 10714	4.9	0

10	Acetylation turns leucine into a drug by membrane transporter switching. *Scientific Reports*, **2021**, 11, 15812	4.9	0
9	A modified density gradient proteomic-based method to analyze endolysosomal proteins in cardiac tissue. *IScience*, **2021**, 24, 102949	6.1	0
8	Synthesis of caged NAADP. *Cold Spring Harbor Protocols*, **2014**, 2014, pdb.prot076943	1.2	
7	Synthesis of [□□P]NAADP for the radioreceptor binding assay. *Cold Spring Harbor Protocols*, **2014**, 2014, 993-5	1.2	
6	A novel signalling role for NAADP in arterial smooth muscle. *FASEB Journal*, **2013**, 27, 877.5	0.9	
5	A cellular protection racket: How lysosomal Ca fluxes prevent kidney injury. *Cell Calcium*, **2021**, 93, 102328	4	
4	Unexpected differences in the pharmacokinetics of N-acetyl-DL-leucine enantiomers after oral dosing and their clinical relevance **2020**, 15, e0229585		
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