Pompeo Volpe

List of Publications by Year
in descending order

75 papers	3,471 citations	136950 32 h-index	138484 58 g-index
75 all docs	75 docs citations	75 times ranked	2491 citing authors

#	Article	IF	Citations
1	Ryanodine receptors: how many, where and why?. Trends in Pharmacological Sciences, 1993, 14, 98-103.	8.7	302
2	Inositol 1,4,5-trisphosphate induces calcium release from sarcoplasmic reticulum of skeletal muscle. Nature, 1985, 316, 347-349.	27.8	273
3	Calsequestrin determines the functional size and stability of cardiac intracellular calcium stores: Mechanism for hereditary arrhythmia. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 11759-11764.	7.1	224
4	Clinical Phenotype and Functional Characterization of CASQ2 Mutations Associated With Catecholaminergic Polymorphic Ventricular Tachycardia. Circulation, 2006, 114, 1012-1019.	1.6	189
5	Abnormal Interactions of Calsequestrin With the Ryanodine Receptor Calcium Release Channel Complex Linked to Exercise-Induced Sudden Cardiac Death. Circulation Research, 2006, 98, 1151-1158.	4.5	179
6	Abnormal Calcium Signaling and Sudden Cardiac Death Associated With Mutation of Calsequestrin. Circulation Research, 2004, 94, 471-477.	4.5	158
7	Reorganized stores and impaired calcium handling in skeletal muscle of mice lacking calsequestrinâ€1. Journal of Physiology, 2007, 583, 767-784.	2.9	130
8	Unexpected Structural and Functional Consequences of the R33Q Homozygous Mutation in Cardiac Calsequestrin. Circulation Research, 2008, 103, 298-306.	4.5	124
9	Luminal Ca2+ Regulation of Single Cardiac Ryanodine Receptors: Insights Provided by Calsequestrin and its Mutants. Journal of General Physiology, 2008, 131, 325-334.	1.9	122
10	Modulation of SR Ca Release by Luminal Ca and Calsequestrin in Cardiac Myocytes: Effects of CASQ2 Mutations Linked to Sudden Cardiac Death. Biophysical Journal, 2008, 95, 2037-2048.	0.5	91
11	The intracellular distribution of calcium. Trends in Neurosciences, 1988, 11, 449-452.	8.6	80
12	Differential functional interaction of two Vesl/Homer protein isoforms with ryanodine receptor type 1: a novel mechanism for control of intracellular calcium signaling. Cell Calcium, 2003, 34, 177-184.	2.4	79
13	Viral Gene Transfer Rescues Arrhythmogenic Phenotype and Ultrastructural Abnormalities in Adult Calsequestrin-Null Mice With Inherited Arrhythmias. Circulation Research, 2012, 110, 663-668.	4.5	71
14	Vesl/Homer proteins regulate ryanodine receptor type 2 function and intracellular calcium signaling. Cell Calcium, 2003, 34, 261-269.	2.4	66
15	Calsequestrin, a component of the inositol 1,4,5-trisphosphate-sensitive Ca2+ store of chicken cerebellum. Neuron, 1990, 5, 713-721.	8.1	60
16	Gene Expression Profiling in Slow-Type Calf Soleus Muscle of 30 Days Space-Flown Mice. PLoS ONE, 2017, 12, e0169314.	2.5	59
17	Decreased RyR2 refractoriness determines myocardial synchronization of aberrant Ca ²⁺ release in a genetic model of arrhythmia. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 10312-10317.	7.1	53
18	Role of inositol 1,4,5-trisphosphate in excitation-contraction coupling in skeletal muscle. FEBS Letters, 1986, 197, 1-4.	2.8	51

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19	Coexpression of two isoforms of calsequestrin in rabbit slow-twitch muscle. Journal of Muscle Research and Cell Motility, 1990, 11, 522-530.	2.0	51
20	Expression and regulation of Homer in human skeletal muscle during neuromuscular junction adaptation to disuse and exercise. FASEB Journal, 2011, 25, 4312-4325.	0.5	49
21	Ryanodine Receptor Luminal Ca2+ Regulation: Swapping Calsequestrin and Channel Isoforms. Biophysical Journal, 2009, 97, 1961-1970.	0.5	47
22	Mechanism of calsequestrin regulation of single cardiac ryanodine receptor in normal and pathological conditions. Journal of General Physiology, 2013, 142, 127-136.	1.9	46
23	Denervation-induced proliferative changes of triads in rabbit skeletal muscle. Muscle and Nerve, 1988, 11, 1246-1259.	2.2	43
24	Catecholaminergic polymorphic ventricular tachycardia-related mutations R33Q and L167H alter calcium sensitivity of human cardiac calsequestrin. Biochemical Journal, 2008, 413, 291-303.	3.7	42
25	Distribution of endoplasmic reticulum and calciosome markers in membrane fractions isolated from different regions of the canine brain. Archives of Biochemistry and Biophysics, 1989, 272, 162-174.	3.0	40
26	The Endoplasmic Reticulum-Sarcoplasmic Reticulum Connection. Experimental Cell Research, 1993, 209, 140-148.	2.6	40
27	Evidence for the Presence of Two Homer 1 Transcripts in Skeletal and Cardiac Muscles. Biochemical and Biophysical Research Communications, 2000, 279, 348-353.	2.1	39
28	Neuronal Na+ channel blockade suppresses arrhythmogenic diastolic Ca2+ release. Cardiovascular Research, 2015, 106, 143-152.	3.8	38
29	Interaction of myotoxin a with the Ca2+-ATPase of skeletal muscle sarcoplasmic reticulum. Archives of Biochemistry and Biophysics, 1986, 246, 90-97.	3.0	37
30	Postnatal development of rabbit fast-twitch skeletal muscle: accumulation, isoform transition and fibre distribution of calsequestrin. Journal of Muscle Research and Cell Motility, 1993, 14, 646-653.	2.0	37
31	Microgravity-Induced Transcriptome Adaptation in Mouse Paraspinal longissimus dorsi Muscle Highlights Insulin Resistance-Linked Genes. Frontiers in Physiology, 2017, 8, 279.	2.8	37
32	Coexistence of two calsequestrin isoforms in rabbit slow-twitch skeletal muscle fibers. FEBS Letters, 1992, 299, 175-178.	2.8	35
33	Quantitation of ryanodine receptor of rabbit skeletal muscle, heart and brain. Biochemical and Biophysical Research Communications, 1991, 175, 858-865.	2.1	33
34	Inositol 1,4,5-trisphosphate receptor and ryanodine receptor in the aging brain of Wistar rats. Neurobiology of Aging, 1994, 15, 203-206.	3.1	33
35	Enhancement of Cardiac Store Operated Calcium Entry (SOCE) within Novel Intercalated Disk Microdomains in Arrhythmic Disease. Scientific Reports, 2019, 9, 10179.	3.3	33
36	Neuronal Na+ Channels Are Integral Components of Pro-Arrhythmic Na+/Ca2+ Signaling Nanodomain That Promotes Cardiac Arrhythmias During Î²-Adrenergic Stimulation. JACC Basic To Translational Science, 2016, 1, 251-266.	4.1	31

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37	Calcium binding proteins of junctional sarcoplasmic reticulum: Detection by 45Ca ligand overlay. Archives of Biochemistry and Biophysics, 1988, 261, 324-329.	3.0	27
38	Targeting of alpha-kinase-anchoring protein (alphaKAP) to sarcoplasmic reticulum and nuclei of skeletal muscle. Biochemical Journal, 2003, 370, 873-880.	3.7	27
39	Altered Ca²⁺ concentration, permeability and buffering in the myofibre Ca²⁺ store of a mouse model of malignant hyperthermia. Journal of Physiology, 2013, 591, 4439-4457.	2.9	27
40	Nitrosative stress in human skeletal muscle attenuated by exercise countermeasure after chronic disuse. Redox Biology, 2013, 1, 514-526.	9.0	25
41	Sequence homology of a canine brain calcium-binding protein with calregulin and the human RoSS-A antigen. Biochemical and Biophysical Research Communications, 1989, 164, 575-579.	2.1	23
42	Homer protein family regulation in skeletal muscle and neuromuscular adaptation. IUBMB Life, 2013, 65, 769-776.	3.4	23
43	Ontogenesis of Chick Iris Intrinsic Muscles: Evidence for a Smooth-to-Striated Muscle Transition. Developmental Biology, 1993, 159, 441-449.	2.0	22
44	Subcellular distribution of Homer 1b/c in relation to endoplasmic reticulum and plasma membrane proteins in Purkinje neurons. Neurochemical Research, 2003, 28, 1151-1158.	3.3	20
45	LU52396, an inhibitor of the store-dependent (capacitative) Ca2+ influx. European Journal of Pharmacology, 1995, 289, 23-31.	2.6	18
46	Transition of Homer isoforms during skeletal muscle regeneration. American Journal of Physiology - Cell Physiology, 2006, 290, C711-C718.	4.6	17
47	Photolabeling of the integral proteins of skeletal muscle sarcoplasmic reticulum: Comparison of junctional and nonjunctional membrane fractions. Archives of Biochemistry and Biophysics, 1987, 253, 138-145.	3.0	16
48	Site-Directed Mutagenesis and Deletion of Three Phosphorylation Sites of Calsequestrin of Skeletal Muscle Sarcoplasmic Reticulum. Experimental Cell Research, 2000, 260, 40-49.	2.6	15
49	Ca2+ channel agonist BAY-k 8644 does not elicit Ca2+ release from skeletal muscle sarcoplasmic reticulum. FEBS Letters, 1985, 186, 255-258.	2.8	14
50	Electrotransfer in differentiated myotubes: a novel, efficient procedure for functional gene transfer. Experimental Cell Research, 2003, 286, 87-95.	2.6	14
51	Effects of Electrical Stimulation on Skeletal Muscle of Old Sedentary People. Gerontology and Geriatric Medicine, 2018, 4, 233372141876899.	1.5	14
52	Topology of Homer 1c and Homer 1a in C2C12 myotubes and transgenic skeletal muscle fibers. Biochemical and Biophysical Research Communications, 2004, 316, 884-892.	2.1	13
53	Targeting of Calsequestrin to the Sarcoplasmic Reticulum of Skeletal Muscle upon Deletion of Its Glycosylation Site. Experimental Cell Research, 2001, 265, 104-113.	2.6	12
54	Myocyte Enhancer Factor 2 Activates Promoter Sequences of the Human AÎ²H-J-J Locus, Encoding Aspartyl-Î²-Hydroxylase, Junctin, and Junctate. Molecular and Cellular Biology, 2005, 25, 3261-3275.	2.3	12

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55	Post-natal heart adaptation in a knock-in mouse model of calsequestrin 2-linked recessive catecholaminergic polymorphic ventricular tachycardia. Experimental Cell Research, 2014, 321, 178-189.	2.6	12
56	The effect of phenothiazines on Ca2+ fluxes in skeletal muscle sarcoplasmic reticulum. Archives of Biochemistry and Biophysics, 1984, 233, 174-179.	3.0	10
57	Homer 2 antagonizes protein degradation in slow-twitch skeletal muscles. American Journal of Physiology - Cell Physiology, 2013, 304, C68-C77.	4.6	9
58	Crystallization of the Ca2+-ATPase of skeletal muscle sarcoplasmic reticulum Inhibition by myotoxina. FEBS Letters, 1987, 224, 89-96.	2.8	8
59	Negative feedback regulation of Homer 1a on norepinephrine-dependent cardiac hypertrophy. Experimental Cell Research, 2013, 319, 1804-1814.	2.6	8
60	Calsequestrins in skeletal and cardiac muscle from adult Danio rerio. Journal of Muscle Research and Cell Motility, 2016, 37, 27-39.	2.0	8
61	Purification and characterization of calsequestrin from chicken cerebellum. Biochemical and Biophysical Research Communications, 1991, 181, 28-35.	2.1	7
62	Nuclear targeting of the CaMKII anchoring protein Î±KAP is regulated by alternative splicing and protein kinases. Brain Research, 2006, 1086, 17-26.	2.2	7
63	Kinetic basis of quantal calcium release from intracellular calcium stores. Cell Calcium, 1998, 23, 43-52.	2.4	6
64	Molecular adaptation to calsequestrin 2 (CASQ2) point mutations leading to catecholaminergic polymorphic ventricular tachycardia (CPVT): comparative analysis of R33Q and D307H mutants. Journal of Muscle Research and Cell Motility, 2020, 41, 251-258.	2.0	6
65	The unraveling architecture of the junctional sarcoplasmic reticulum. Journal of Bioenergetics and Biomembranes, 1989, 21, 215-225.	2.3	5
66	Characterization of fast-twitch and slow-twitch skeletal muscles of calsequestrin 2 (CASQ2)-knock out mice: unexpected adaptive changes of fast-twitch muscles only. Journal of Muscle Research and Cell Motility, 2016, 37, 225-233.	2.0	5
67	Tetrodotoxinâ€Sensitive Neuronalâ€Type Na ⁺ Channels: A Novel and Druggable Target for Prevention of Atrial Fibrillation. Journal of the American Heart Association, 2020, 9, e015119.	3.7	5
68	Inositol trisphosphate and muscle: caution is a must. Trends in Biochemical Sciences, 1987, 12, 139-140.	7.5	4
69	Calsequestrins New Calcium Store Markers of Adult Zebrafish Cerebellum and Optic Tectum. Frontiers in Neuroanatomy, 2020, 14, 15.	1.7	3
70	Reciprocal Homer1a and Homer2 Isoform Expression Is a Key Mechanism for Muscle Soleus Atrophy in Spaceflown Mice. International Journal of Molecular Sciences, 2022, 23, 75.	4.1	3
71	Measurement of calcium release from sarcoplasmic reticulum of skeletal muscle: Effect of calcium and inositol 1,4,5-trisphosphate. Methods in Enzymology, 1987, 141, 3-18.	1.0	2
72	Preliminary Observations on Skeletal Muscle Adaptation and Plasticity in Homer 2-/- Mice. Metabolites, 2021, 11, 642.	2.9	2

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73	Multiple pathways for calcium handling abnormalities linking a novel CASQ2 mutation to ventricular arrhytmias and sudden death. Heart Rhythm, 2005, 2, S137-S138.	0.7	0
74	Increased Levels of miR-1 Exacerbate Cardiac Arrhythmia Linked to Gain-Of- Function Mutations of RyR2 Complex. Biophysical Journal, 2012, 102, 101a-102a.	0.5	0
75	Cardiac Store Operated Calcium Entry (SOCE) is Compartmentalized at Intercalated Disks and Linked to Catecholaminergic Polymorphic Ventricular Tachycardia (CPVT). Biophysical Journal, 2019, 116, 236a.	0.5	0