

Feliciano Protasi

List of Publications by Year in descending order

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78
papers

5,747
citations

81900
39
h-index

76900
74
g-index

80
all docs

80
docs citations

80
times ranked

5131
citing authors

#	ARTICLE	IF	CITATIONS
1	Shape, Size, and Distribution of Ca ²⁺ Release Units and Couplons in Skeletal and Cardiac Muscles. Biophysical Journal, 1999, 77, 1528-1539.	0.5	540
2	The contribution of reactive oxygen species to sarcopenia and muscle ageing. Experimental Gerontology, 2004, 39, 17-24.	2.8	345
3	RyR1 S-Nitrosylation Underlies Environmental Heat Stroke and Sudden Death in Y522S RyR1 Knockin Mice. Cell, 2008, 133, 53-65.	28.9	321
4	DRP1-mediated mitochondrial shape controls calcium homeostasis and muscle mass. Nature Communications, 2019, 10, 2576.	12.8	274
5	Mitochondria Are Linked to Calcium Stores in Striated Muscle by Developmentally Regulated Tethering Structures. Molecular Biology of the Cell, 2009, 20, 1058-1067.	2.1	240
6	Long-Term Denervation in Humans Causes Degeneration of Both Contractile and Excitation-Contraction Coupling Apparatus, Which Is Reversible by Functional Electrical Stimulation (FES): A Role for Myofiber Regeneration?. Journal of Neuropathology and Experimental Neurology, 2004, 63, 919-931.	1.7	173
7	The Mitochondrial Calcium Uniporter Controls Skeletal Muscle Trophism In Vivo. Cell Reports, 2015, 10, 1269-1279.	6.4	170
8	Structural differentiation of skeletal muscle fibers in the absence of innervation in humans. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 19339-19344.	7.1	153
9	Long-Term High-Level Exercise Promotes Muscle Reinnervation With Age. Journal of Neuropathology and Experimental Neurology, 2014, 73, 284-294.	1.7	136
10	Role of Ryanodine Receptors in the Assembly of Calcium Release Units in Skeletal Muscle. Journal of Cell Biology, 1998, 140, 831-842.	5.2	134
11	Reorganized stores and impaired calcium handling in skeletal muscle of mice lacking calsequestrin. Journal of Physiology, 2007, 583, 767-784.	2.9	130
12	Comparative Ultrastructure of Ca ²⁺ Release Units in Skeletal and Cardiac Muscle. Annals of the New York Academy of Sciences, 1998, 853, 20-30.	3.8	129
13	Electrical Stimulation Counteracts Muscle Decline in Seniors. Frontiers in Aging Neuroscience, 2014, 6, 189.	3.4	128
14	Orai1-dependent calcium entry promotes skeletal muscle growth and limits fatigue. Nature Communications, 2013, 4, 2805.	12.8	118
15	Characterization and temporal development of cores in a mouse model of malignant hyperthermia. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 21996-22001.	7.1	113
16	The Assembly of Calcium Release Units in Cardiac Muscle. Annals of the New York Academy of Sciences, 2005, 1047, 76-85.	3.8	112
17	Role of Mitofusin-2 in mitochondrial localization and calcium uptake in skeletal muscle. Cell Calcium, 2015, 57, 14-24.	2.4	104
18	RyR1 and RyR3 Have Different Roles in the Assembly of Calcium Release Units of Skeletal Muscle. Biophysical Journal, 2000, 79, 2494-2508.	0.5	99

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19	Anesthetic- and heat-induced sudden death in calsequestrin-1 knockout mice. <i>FASEB Journal</i> , 2009, 23, 1710-1720.	0.5	99
20	Calsequestrin-1: a new candidate gene for malignant hyperthermia and exertional/environmental heat stroke. <i>Journal of Physiology</i> , 2009, 587, 3095-3100.	2.9	95
21	Electrical Stimulation of Denervated Muscles: First Results of a Clinical Study. <i>Artificial Organs</i> , 2005, 29, 203-206.	1.9	93
22	Mitochondrial superoxide flashes: metabolic biomarkers of skeletal muscle activity and disease. <i>FASEB Journal</i> , 2011, 25, 3068-3078.	0.5	90
23	Coordinated Incorporation of Skeletal Muscle Dihydropyridine Receptors and Ryanodine Receptors in Peripheral Couplings of BC3H1 Cells. <i>Journal of Cell Biology</i> , 1997, 137, 859-870.	5.2	84
24	Age-dependent uncoupling of mitochondria from Ca ²⁺ release units in skeletal muscle. <i>Oncotarget</i> , 2015, 6, 35358-35371.	1.8	83
25	Progressive Disorganization of the Excitation-Contraction Coupling Apparatus in Aging Human Skeletal Muscle as Revealed by Electron Microscopy: A Possible Role in the Decline of Muscle Performance. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2006, 61, 995-1008.	3.6	82
26	Formation and Maturation of the Calcium Release Apparatus in Developing and Adult Avian Myocardium. <i>Developmental Biology</i> , 1996, 173, 265-278.	2.0	80
27	Multiple Regions of RyR1 Mediate Functional and Structural Interactions with $\pm 1S$ -Dihydropyridine Receptors in Skeletal Muscle. <i>Biophysical Journal</i> , 2002, 83, 3230-3244.	0.5	80
28	Structural interaction between RYRs and DHPRs in calcium release units of cardiac and skeletal muscle cells. <i>Frontiers in Bioscience - Landmark</i> , 2002, 7, d650-658.	3.0	74
29	The Relative Position of RyR Feet and DHPR Tetrads in Skeletal Muscle. <i>Journal of Molecular Biology</i> , 2004, 342, 145-153.	4.2	71
30	Physical exercise in aging human skeletal muscle increases mitochondrial calcium uniporter expression levels and affects mitochondria dynamics. <i>Physiological Reports</i> , 2016, 4, e13005.	1.7	71
31	Exercise-dependent formation of new junctions that promote STIM1-Orai1 assembly in skeletal muscle. <i>Scientific Reports</i> , 2017, 7, 14286.	3.3	67
32	Allele-Specific Silencing of Mutant mRNA Rescues Ultrastructural and Arrhythmic Phenotype in Mice Carriers of the R4496C Mutation in the Ryanodine Receptor Gene (<i>RyR2</i>). <i>Circulation Research</i> , 2017, 121, 525-536.	4.5	64
33	Sequential stages in the age-dependent gradual formation and accumulation of tubular aggregates in fast twitch muscle fibers: SERCA and calsequestrin involvement. <i>Age</i> , 2012, 34, 27-41.	3.0	54
34	A Mutation in the <i>CASQ1</i> Gene Causes a Vacuolar Myopathy with Accumulation of Sarcoplasmic Reticulum Protein Aggregates. <i>Human Mutation</i> , 2014, 35, 1163-1170.	2.5	53
35	Differential impact of mitochondrial positioning on mitochondrial Ca ²⁺ uptake and Ca ²⁺ spark suppression in skeletal muscle. <i>American Journal of Physiology - Cell Physiology</i> , 2011, 301, C1128-C1139.	4.6	50
36	Expression of ryanodine receptor RyR3 produces Ca ²⁺ sparks in dyspedic myotubes. <i>Journal of Physiology</i> , 2000, 525, 91-103.	2.9	48

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37	Effects of chronic electrical stimulation on long-term denervated muscles of the rabbit hind limb. <i>Journal of Muscle Research and Cell Motility</i> , 2007, 28, 203-217.	2.0	47
38	A Subpopulation of Rat Muscle Fibers Maintains an Assessable Excitation-Contraction Coupling Mechanism After Long-Standing Denervation Despite Lost Contractility. <i>Journal of Neuropathology and Experimental Neurology</i> , 2009, 68, 1256-1268.	1.7	45
39	Abnormal Propagation of Calcium Waves and Ultrastructural Remodeling in Recessive Catecholaminergic Polymorphic Ventricular Tachycardia. <i>Circulation Research</i> , 2013, 113, 142-152.	4.5	44
40	Contractile impairment and structural alterations of skeletal muscles from knockout mice lacking type 1 and type 3 ryanodine receptors. <i>FEBS Letters</i> , 1998, 422, 160-164.	2.8	39
41	Paradoxical buffering of calcium by calsequestrin demonstrated for the calcium store of skeletal muscle. <i>Journal of General Physiology</i> , 2010, 136, 325-338.	1.9	39
42	Accelerated Activation of SOCE Current in Myotubes from Two Mouse Models of Anesthetic- and Heat-Induced Sudden Death. <i>PLoS ONE</i> , 2013, 8, e77633.	2.5	36
43	Transverse tubule remodeling enhances Orai1-dependent Ca ²⁺ entry in skeletal muscle. <i>ELife</i> , 2019, 8, .	6.0	36
44	Enhanced dihydropyridine receptor calcium channel activity restores muscle strength in JP45/CASQ1 double knockout mice. <i>Nature Communications</i> , 2013, 4, 1541.	12.8	35
45	Antioxidants Protect Calsequestrin-1 Knockout Mice from Halothane- and Heat-induced Sudden Death. <i>Anesthesiology</i> , 2015, 123, 603-617.	2.5	35
46	Atrophy-resistant fibers in permanent peripheral denervation of human skeletal muscle. <i>Neurological Research</i> , 2008, 30, 137-144.	1.3	34
47	Strenuous exercise triggers a life-threatening response in mice susceptible to malignant hyperthermia. <i>FASEB Journal</i> , 2017, 31, 3649-3662.	0.5	34
48	Oxidative stress, mitochondrial damage, and cores in muscle from calsequestrin-1 knockout mice. <i>Skeletal Muscle</i> , 2015, 5, 10.	4.2	33
49	Antioxidant Treatment Reduces Formation of Structural Cores and Improves Muscle Function in RYR1 ^{Y522S/WT} Mice. <i>Oxidative Medicine and Cellular Longevity</i> , 2017, 2017, 1-15.	4.0	33
50	Pre-assembled Ca ²⁺ entry units and constitutively active Ca ²⁺ entry in skeletal muscle of calsequestrin-1 knockout mice. <i>Journal of General Physiology</i> , 2020, 152, .	1.9	32
51	Differential Effect of Calsequestrin Ablation on Structure and Function of Fast and Slow Skeletal Muscle Fibers. <i>Journal of Biomedicine and Biotechnology</i> , 2011, 2011, 1-10.	3.0	30
52	Mechanical parameters of the molecular motor myosin II determined in permeabilised fibres from slow and fast skeletal muscles of the rabbit. <i>Journal of Physiology</i> , 2018, 596, 1243-1257.	2.9	29
53	Calsequestrin (CASQ1) rescues function and structure of calcium release units in skeletal muscles of CASQ1-null mice. <i>American Journal of Physiology - Cell Physiology</i> , 2012, 302, C575-C586.	4.6	28
54	Calcium entry units (CEUs): perspectives in skeletal muscle function and disease. <i>Journal of Muscle Research and Cell Motility</i> , 2021, 42, 233-249.	2.0	28

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55	Altered Ca ²⁺ Handling and Oxidative Stress Underlie Mitochondrial Damage and Skeletal Muscle Dysfunction in Aging and Disease. <i>Metabolites</i> , 2021, 11, 424.	2.9	27
56	Lessons from calsequestrin-1 ablation in vivo: much more than a Ca ²⁺ buffer after all. <i>Journal of Muscle Research and Cell Motility</i> , 2011, 32, 257-270.	2.0	26
57	Muscle activity prevents the uncoupling of mitochondria from Ca ²⁺ Release Units induced by ageing and disuse. <i>Archives of Biochemistry and Biophysics</i> , 2019, 663, 22-33.	3.0	26
58	Mitochondrial Ca ²⁺ -Handling in Fast Skeletal Muscle Fibers from Wild Type and Calsequestrin-Null Mice. <i>PLoS ONE</i> , 2013, 8, e74919.	2.5	25
59	Increased Ca ²⁺ storage capacity of the skeletal muscle sarcoplasmic reticulum of transgenic mice over-expressing membrane bound calcium binding protein juncate. <i>Journal of Cellular Physiology</i> , 2007, 213, 464-474.	4.1	23
60	A 3D diffusional-compartmental model of the calcium dynamics in cytosol, sarcoplasmic reticulum and mitochondria of murine skeletal muscle fibers. <i>PLoS ONE</i> , 2018, 13, e0201050.	2.5	23
61	Long-Term Exercise Reduces Formation of Tubular Aggregates and Promotes Maintenance of Ca ²⁺ Entry Units in Aged Muscle. <i>Frontiers in Physiology</i> , 2020, 11, 601057.	2.8	21
62	Impaired Binding to Junctophilin-2 and Nanostructural Alteration in CPVT Mutation. <i>Circulation Research</i> , 2021, 129, e35-e52.	4.5	19
63	All three ryanodine receptor isoforms generate rapid cooling responses in muscle cells. <i>American Journal of Physiology - Cell Physiology</i> , 2004, 286, C662-C670.	4.6	17
64	Estrogens Protect Calsequestrin-1 Knockout Mice from Lethal Hyperthermic Episodes by Reducing Oxidative Stress in Muscle. <i>Oxidative Medicine and Cellular Longevity</i> , 2017, 2017, 1-15.	4.0	17
65	Parvalbumin affects skeletal muscle trophism through modulation of mitochondrial calcium uptake. <i>Cell Reports</i> , 2021, 35, 109087.	6.4	16
66	New method for determining total calcium content in tissue applied to skeletal muscle with and without calsequestrin. <i>Journal of General Physiology</i> , 2015, 145, 127-153.	1.9	14
67	Excessive Accumulation of Ca ²⁺ in Mitochondria of Y522S-RYR1 Knock-in Mice: A Link Between Leak From the Sarcoplasmic Reticulum and Altered Redox State. <i>Frontiers in Physiology</i> , 2019, 10, 1142.	2.8	14
68	Post-natal heart adaptation in a knock-in mouse model of calsequestrin 2-linked recessive catecholaminergic polymorphic ventricular tachycardia. <i>Experimental Cell Research</i> , 2014, 321, 178-189.	2.6	12
69	Improper Remodeling of Organelles Deputed to Ca ²⁺ Handling and Aerobic ATP Production Underlies Muscle Dysfunction in Ageing. <i>International Journal of Molecular Sciences</i> , 2021, 22, 6195.	4.1	11
70	A CASQ1 founder mutation in three Italian families with protein aggregate myopathy and hyperCKaemia. <i>Journal of Medical Genetics</i> , 2015, 52, 617-626.	3.2	10
71	Aerobic Training Prevents Heatstrokes in Calsequestrin-1 Knockout Mice by Reducing Oxidative Stress. <i>Oxidative Medicine and Cellular Longevity</i> , 2018, 2018, 1-14.	4.0	8
72	PERK inhibition attenuates the abnormalities of the secretory pathway and the increased apoptotic rate induced by SIL1 knockdown in HeLa cells. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2018, 1864, 3164-3180.	3.8	7

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73	Proteomic Analysis of Marinescoâ€“Sjogren Syndrome Fibroblasts Indicates Pro-Survival Metabolic Adaptation to SIL1 Loss. International Journal of Molecular Sciences, 2021, 22, 12449.	4.1	6
74	Ageing Causes Ultrastructural Modification to Calcium Release Units and Mitochondria in Cardiomyocytes. International Journal of Molecular Sciences, 2021, 22, 8364.	4.1	4
75	Calsequestrin Deletion Facilitates Hippocampal Synaptic Plasticity and Spatial Learning in Post-Natal Development. International Journal of Molecular Sciences, 2020, 21, 5473.	4.1	3
76	Store-Operated Ca ²⁺ Entry in Skeletal Muscle Contributes to the Increase in Body Temperature during Exertional Stress. International Journal of Molecular Sciences, 2022, 23, 3772.	4.1	3
77	Functional Electrical Stimulation: A Possible Strategy to Improve Muscle Function in Central Core Disease?. Frontiers in Neurology, 2019, 10, 479.	2.4	2
78	High-Fat Diet Impairs Muscle Function and Increases the Risk of Environmental Heatstroke in Mice. International Journal of Molecular Sciences, 2022, 23, 5286.	4.1	2