

Muthu Periasamy

List of Publications by Citations

Source: <https://exaly.com/author-pdf/1837364/muthu-periasamy-publications-by-citations.pdf>

Version: 2024-04-10

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

57 papers	2,955 citations	29 h-index	54 g-index
60 ext. papers	3,546 ext. citations	6.5 avg, IF	5.35 L-index

#	Paper	IF	Citations
57	Sarcolipin is a newly identified regulator of muscle-based thermogenesis in mammals. <i>Nature Medicine</i> , 2012 , 18, 1575-9	50.5	353
56	SERCA pump isoforms: their role in calcium transport and disease. <i>Muscle and Nerve</i> , 2007 , 35, 430-42	3.4	344
55	SERCA pump level is a critical determinant of Ca(2+)homeostasis and cardiac contractility. <i>Journal of Molecular and Cellular Cardiology</i> , 2001 , 33, 1053-63	5.8	236
54	Regulation of sarcoplasmic reticulum Ca ²⁺ ATPase pump expression and its relevance to cardiac muscle physiology and pathology. <i>Cardiovascular Research</i> , 2008 , 77, 265-73	9.9	171
53	The role of skeletal-muscle-based thermogenic mechanisms in vertebrate endothermy. <i>Biological Reviews</i> , 2015 , 90, 1279-97	13.5	111
52	Differential expression of sarcolipin protein during muscle development and cardiac pathophysiology. <i>Journal of Molecular and Cellular Cardiology</i> , 2007 , 43, 215-22	5.8	109
51	Ablation of sarcolipin enhances sarcoplasmic reticulum calcium transport and atrial contractility. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007 , 104, 17867-72	11.5	104
50	Sarcolipin and phospholamban as regulators of cardiac sarcoplasmic reticulum Ca ²⁺ ATPase. <i>Journal of Molecular and Cellular Cardiology</i> , 2007 , 42, 903-11	5.8	103
49	Sarcolipin Is a Key Determinant of the Basal Metabolic Rate, and Its Overexpression Enhances Energy Expenditure and Resistance against Diet-induced Obesity. <i>Journal of Biological Chemistry</i> , 2015 , 290, 10840-9	5.4	86
48	Calsequestrin 2 deletion causes sinoatrial node dysfunction and atrial arrhythmias associated with altered sarcoplasmic reticulum calcium cycling and degenerative fibrosis within the mouse atrial pacemaker complex1. <i>European Heart Journal</i> , 2015 , 36, 686-97	9.5	86
47	Loss of SM-B myosin affects muscle shortening velocity and maximal force development. <i>Nature Cell Biology</i> , 2001 , 3, 1025-9	23.4	79
46	Sarcolipin protein interaction with sarco(endo)plasmic reticulum Ca ²⁺ ATPase (SERCA) is distinct from phospholamban protein, and only sarcolipin can promote uncoupling of the SERCA pump. <i>Journal of Biological Chemistry</i> , 2013 , 288, 6881-9	5.4	75
45	Uncoupling Protein 1 and Sarcolipin Are Required to Maintain Optimal Thermogenesis, and Loss of Both Systems Compromises Survival of Mice under Cold Stress. <i>Journal of Biological Chemistry</i> , 2015 , 290, 12282-9	5.4	74
44	Skeletal Muscle Thermogenesis and Its Role in Whole Body Energy Metabolism. <i>Diabetes and Metabolism Journal</i> , 2017 , 41, 327-336	5	67
43	Sarcolipin: A Key Thermogenic and Metabolic Regulator in Skeletal Muscle. <i>Trends in Endocrinology and Metabolism</i> , 2016 , 27, 881-892	8.8	66
42	miR-155 Deletion in Female Mice Prevents Diet-Induced Obesity. <i>Scientific Reports</i> , 2016 , 6, 22862	4.9	60
41	Both brown adipose tissue and skeletal muscle thermogenesis processes are activated during mild to severe cold adaptation in mice. <i>Journal of Biological Chemistry</i> , 2017 , 292, 16616-16625	5.4	58

40	Targeted overexpression of sarcolipin in the mouse heart decreases sarcoplasmic reticulum calcium transport and cardiac contractility. <i>Journal of Biological Chemistry</i> , 2006 , 281, 3972-9	5.4	56
39	Increased Reliance on Muscle-based Thermogenesis upon Acute Minimization of Brown Adipose Tissue Function. <i>Journal of Biological Chemistry</i> , 2016 , 291, 17247-57	5.4	51
38	Phospholamban and sarcolipin: Are they functionally redundant or distinct regulators of the Sarco(Endo)Plasmic Reticulum Calcium ATPase?. <i>Journal of Molecular and Cellular Cardiology</i> , 2016 , 91, 81-91	5.8	51
37	Enhanced Ca ²⁺ transport and muscle relaxation in skeletal muscle from sarcolipin-null mice. <i>American Journal of Physiology - Cell Physiology</i> , 2011 , 301, C841-9	5.4	48
36	Threonine-5 at the N-terminus can modulate sarcolipin function in cardiac myocytes. <i>Journal of Molecular and Cellular Cardiology</i> , 2009 , 47, 723-9	5.8	45
35	The N Terminus of Sarcolipin Plays an Important Role in Uncoupling Sarco-endoplasmic Reticulum Ca ²⁺ -ATPase (SERCA) ATP Hydrolysis from Ca ²⁺ Transport. <i>Journal of Biological Chemistry</i> , 2015 , 290, 14057-67	5.4	41
34	Sarcolipin Signaling Promotes Mitochondrial Biogenesis and Oxidative Metabolism in Skeletal Muscle. <i>Cell Reports</i> , 2018 , 24, 2919-2931	10.6	41
33	Sarcolipin trumps β -adrenergic receptor signaling as the favored mechanism for muscle-based diet-induced thermogenesis. <i>FASEB Journal</i> , 2013 , 27, 3871-8	0.9	40
32	Sarcolipin overexpression improves muscle energetics and reduces fatigue. <i>Journal of Applied Physiology</i> , 2015 , 118, 1050-8	3.7	37
31	Overexpression of sarcolipin decreases myocyte contractility and calcium transient. <i>Cardiovascular Research</i> , 2005 , 65, 177-86	9.9	37
30	Role of SERCA Pump in Muscle Thermogenesis and Metabolism. <i>Comprehensive Physiology</i> , 2017 , 7, 879-890	8.9	36
29	Sarcolipin and uncoupling protein 1 play distinct roles in diet-induced thermogenesis and do not compensate for one another. <i>Obesity</i> , 2016 , 24, 1430-3	8	34
28	Ablation of sarcolipin results in atrial remodeling. <i>American Journal of Physiology - Cell Physiology</i> , 2012 , 302, C1762-71	5.4	28
27	Cold adaptation overrides developmental regulation of sarcolipin expression in mice skeletal muscle: SOS for muscle-based thermogenesis?. <i>Journal of Experimental Biology</i> , 2015 , 218, 2321-5	3	25
26	Ablation of phospholamban and sarcolipin results in cardiac hypertrophy and decreased cardiac contractility. <i>Cardiovascular Research</i> , 2011 , 89, 353-61	9.9	25
25	Sarcolipin is a novel regulator of muscle metabolism and obesity. <i>Pharmacological Research</i> , 2015 , 102, 270-5	10.2	24
24	Exercise protects against diet-induced insulin resistance through downregulation of protein kinase C β in mice. <i>PLoS ONE</i> , 2013 , 8, e81364	3.7	23
23	Uncoupling of sarcoendoplasmic reticulum calcium ATPase pump activity by sarcolipin as the basis for muscle non-shivering thermogenesis. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2020 , 375, 20190135	5.8	22

22	Obligatory role of neuronal nitric oxide synthase in the heart's antioxidant adaptation with exercise. <i>Journal of Molecular and Cellular Cardiology</i> , 2015 , 81, 54-61	5.8	21
21	The Role of Sarcolipin in Muscle Non-shivering Thermogenesis. <i>Frontiers in Physiology</i> , 2018 , 9, 1217	4.6	21
20	Sarcoplasmic reticulum Ca ²⁺ ATPase pump is a major regulator of glucose transport in the healthy and diabetic heart. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2015 , 1852, 873-81	6.9	20
19	Muscle damage, metabolism, and oxidative stress in mdx mice: Impact of aerobic running. <i>Muscle and Nerve</i> , 2016 , 54, 110-7	3.4	14
18	SERCA2a gene therapy for heart failure: ready for primetime?. <i>Molecular Therapy</i> , 2008 , 16, 1002-4	11.7	13
17	Genetic and Environmental Factors Contributing to Visceral Adiposity in Asian Populations. <i>Endocrinology and Metabolism</i> , 2020 , 35, 681-695	3.5	5
16	Epiregulin induces leptin secretion and energy expenditure in high-fat diet-fed mice. <i>Journal of Endocrinology</i> , 2018 , 239, 377-388	4.7	3
15	Structural basis for sarcolipin's regulation of muscle thermogenesis by the sarcoplasmic reticulum Ca-ATPase. <i>Science Advances</i> , 2021 , 7, eabi7154	14.3	3
14	Is Upregulation of Sarcolipin Beneficial or Detrimental to Muscle Function?. <i>Frontiers in Physiology</i> , 2021 , 12, 633058	4.6	3
13	Skeletal muscle inefficiency protects against obesity. <i>Nature Metabolism</i> , 2019 , 1, 849-850	14.6	2
12	Sarcolipin Ablation Increases Ca ²⁺ Pump Efficiency in Mouse Skeletal Muscle. <i>FASEB Journal</i> , 2008 , 22, 1157.5	0.9	1
11	A novel mechanism for UCP1-independent thermogenesis. <i>FASEB Journal</i> , 2013 , 27, 1152.24	0.9	1
10	Strain-specific differences in muscle Ca transport and mitochondrial electron transport chain proteins between FVB/N and C57BL/6J mice. <i>Journal of Experimental Biology</i> , 2021 , 224,	3	1
9	Paracardial fat remodeling affects systemic metabolism through alcohol dehydrogenase 1. <i>Journal of Clinical Investigation</i> , 2021 , 131,	15.9	1
8	Glutathiolation and Nitration of Sarcoplasmic Reticulum Ca ²⁺ -ATPase (SERCA) in hearts overexpressing SERCA1a-pump. <i>FASEB Journal</i> , 2007 , 21, A535	0.9	
7	Improvement of Ca ²⁺ Transport and Muscle Relaxation in Skeletal Muscle From Sarcolipin Null Mice. <i>FASEB Journal</i> , 2008 , 22, 962.34	0.9	
6	Deficiency of smooth muscle myosin heavy chain isoform 2 increases muscle contractility and causes premature postnatal death in mice. <i>FASEB Journal</i> , 2008 , 22, 145-145	0.9	
5	Sarcolipin 2018 , 4832-4836		

- | | | |
|---|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|
| 4 | SLN overexpression upregulates mitochondrial dynamics and promotes oxidative metabolism during caloric restriction.. <i>FASEB Journal</i> , 2018 , 32, lb388 | 0.9 |
| 3 | Frequency dependent myofilament desensitization is impaired in rabbit right ventricular hypertrophy. <i>FASEB Journal</i> , 2009 , 23, 953.1 | 0.9 |
| 2 | Sarcolipin is a novel regulator of muscle based thermogenesis and metabolism in mammals. <i>FASEB Journal</i> , 2013 , 27, 736.1 | 0.9 |
| 1 | Sarcolipin interaction with SERCA is distinct from Phospholamban; only Sarcolipin can promote uncoupling of the SERCA pump (LB244). <i>FASEB Journal</i> , 2014 , 28, LB244 | 0.9 |