

# Muthu Periasamy

## List of Publications by Year in Descending Order

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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	Structural basis for sarcolipin <sup>3</sup> regulation of muscle thermogenesis by the sarcoplasmic reticulum Ca-ATPase. <i>Science Advances</i> , <b>2021</b> , 7, eabi7154	14.3	3
56	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> , <b>2021</b> , 224,	3	1
55	Is Upregulation of Sarcolipin Beneficial or Detrimental to Muscle Function?. <i>Frontiers in Physiology</i> , <b>2021</b> , 12, 633058	4.6	3
54	Paracardial fat remodeling affects systemic metabolism through alcohol dehydrogenase 1. <i>Journal of Clinical Investigation</i> , <b>2021</b> , 131,	15.9	1
53	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> , <b>2020</b> , 375, 20190135	5.8	22
52	Genetic and Environmental Factors Contributing to Visceral Adiposity in Asian Populations. <i>Endocrinology and Metabolism</i> , <b>2020</b> , 35, 681-695	3.5	5
51	Skeletal muscle inefficiency protects against obesity. <i>Nature Metabolism</i> , <b>2019</b> , 1, 849-850	14.6	2
50	Epiregulin induces leptin secretion and energy expenditure in high-fat diet-fed mice. <i>Journal of Endocrinology</i> , <b>2018</b> , 239, 377-388	4.7	3
49	Sarcolipin <b>2018</b> , 4832-4836		
48	SLN overexpression upregulates mitochondrial dynamics and promotes oxidative metabolism during caloric restriction.. <i>FASEB Journal</i> , <b>2018</b> , 32, lb388	0.9	
47	The Role of Sarcolipin in Muscle Non-shivering Thermogenesis. <i>Frontiers in Physiology</i> , <b>2018</b> , 9, 1217	4.6	21
46	Sarcolipin Signaling Promotes Mitochondrial Biogenesis and Oxidative Metabolism in Skeletal Muscle. <i>Cell Reports</i> , <b>2018</b> , 24, 2919-2931	10.6	41
45	Role of SERCA Pump in Muscle Thermogenesis and Metabolism. <i>Comprehensive Physiology</i> , <b>2017</b> , 7, 879-890	4.9	36
44	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> , <b>2017</b> , 292, 16616-16625	5.4	58
43	Skeletal Muscle Thermogenesis and Its Role in Whole Body Energy Metabolism. <i>Diabetes and Metabolism Journal</i> , <b>2017</b> , 41, 327-336	5	67
42	miR-155 Deletion in Female Mice Prevents Diet-Induced Obesity. <i>Scientific Reports</i> , <b>2016</b> , 6, 22862	4.9	60
41	Sarcolipin: A Key Thermogenic and Metabolic Regulator in Skeletal Muscle. <i>Trends in Endocrinology and Metabolism</i> , <b>2016</b> , 27, 881-892	8.8	66

40	Muscle damage, metabolism, and oxidative stress in mdx mice: Impact of aerobic running. <i>Muscle and Nerve</i> , <b>2016</b> , 54, 110-7	3.4	14
39	Increased Reliance on Muscle-based Thermogenesis upon Acute Minimization of Brown Adipose Tissue Function. <i>Journal of Biological Chemistry</i> , <b>2016</b> , 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> , <b>2016</b> , 91, 81-91	5.8	51
37	Sarcolipin and uncoupling protein 1 play distinct roles in diet-induced thermogenesis and do not compensate for one another. <i>Obesity</i> , <b>2016</b> , 24, 1430-3	8	34
36	Cold adaptation overrides developmental regulation of sarcolipin expression in mice skeletal muscle: SOS for muscle-based thermogenesis?. <i>Journal of Experimental Biology</i> , <b>2015</b> , 218, 2321-5	3	25
35	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> , <b>2015</b> , 290, 10840-9	5.4	86
34	Sarcolipin overexpression improves muscle energetics and reduces fatigue. <i>Journal of Applied Physiology</i> , <b>2015</b> , 118, 1050-8	3.7	37
33	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> , <b>2015</b> , 290, 12282-9	5.4	74
32	The role of skeletal-muscle-based thermogenic mechanisms in vertebrate endothermy. <i>Biological Reviews</i> , <b>2015</b> , 90, 1279-97	13.5	111
31	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> , <b>2015</b> , 36, 686-97	9.5	86
30	The N Terminus of Sarcolipin Plays an Important Role in Uncoupling Sarco-endoplasmic Reticulum Ca <sup>2+</sup> -ATPase (SERCA) ATP Hydrolysis from Ca <sup>2+</sup> Transport. <i>Journal of Biological Chemistry</i> , <b>2015</b> , 290, 14057-67	5.4	41
29	Sarcolipin is a novel regulator of muscle metabolism and obesity. <i>Pharmacological Research</i> , <b>2015</b> , 102, 270-5	10.2	24
28	Sarcoplasmic reticulum Ca <sup>2+</sup> 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> , <b>2015</b> , 1852, 873-81	6.9	20
27	Obligatory role of neuronal nitric oxide synthase in the heart's antioxidant adaptation with exercise. <i>Journal of Molecular and Cellular Cardiology</i> , <b>2015</b> , 81, 54-61	5.8	21
26	Sarcolipin interaction with SERCA is distinct from Phospholamban; only Sarcolipin can promote uncoupling of the SERCA pump (LB244). <i>FASEB Journal</i> , <b>2014</b> , 28, LB244	0.9	
25	Sarcolipin trumps $\beta$ adrenergic receptor signaling as the favored mechanism for muscle-based diet-induced thermogenesis. <i>FASEB Journal</i> , <b>2013</b> , 27, 3871-8	0.9	40
24	Sarcolipin protein interaction with sarco(endo)plasmic reticulum Ca <sup>2+</sup> ATPase (SERCA) is distinct from phospholamban protein, and only sarcolipin can promote uncoupling of the SERCA pump. <i>Journal of Biological Chemistry</i> , <b>2013</b> , 288, 6881-9	5.4	75
23	Exercise protects against diet-induced insulin resistance through downregulation of protein kinase C $\beta$ in mice. <i>PLoS ONE</i> , <b>2013</b> , 8, e81364	3.7	23

22	A novel mechanism for UCP1-independent thermogenesis. <i>FASEB Journal</i> , <b>2013</b> , 27, 1152-24	0.9	1
21	Sarcolipin is a novel regulator of muscle based thermogenesis and metabolism in mammals. <i>FASEB Journal</i> , <b>2013</b> , 27, 736.1	0.9	
20	Sarcolipin is a newly identified regulator of muscle-based thermogenesis in mammals. <i>Nature Medicine</i> , <b>2012</b> , 18, 1575-9	50.5	353
19	Ablation of sarcolipin results in atrial remodeling. <i>American Journal of Physiology - Cell Physiology</i> , <b>2012</b> , 302, C1762-71	5.4	28
18	Enhanced Ca <sup>2+</sup> transport and muscle relaxation in skeletal muscle from sarcolipin-null mice. <i>American Journal of Physiology - Cell Physiology</i> , <b>2011</b> , 301, C841-9	5.4	48
17	Ablation of phospholamban and sarcolipin results in cardiac hypertrophy and decreased cardiac contractility. <i>Cardiovascular Research</i> , <b>2011</b> , 89, 353-61	9.9	25
16	Threonine-5 at the N-terminus can modulate sarcolipin function in cardiac myocytes. <i>Journal of Molecular and Cellular Cardiology</i> , <b>2009</b> , 47, 723-9	5.8	45
15	Frequency dependent myofilament desensitization is impaired in rabbit right ventricular hypertrophy. <i>FASEB Journal</i> , <b>2009</b> , 23, 953.1	0.9	
14	SERCA2a gene therapy for heart failure: ready for primetime?. <i>Molecular Therapy</i> , <b>2008</b> , 16, 1002-4	11.7	13
13	Regulation of sarcoplasmic reticulum Ca <sup>2+</sup> ATPase pump expression and its relevance to cardiac muscle physiology and pathology. <i>Cardiovascular Research</i> , <b>2008</b> , 77, 265-73	9.9	171
12	Improvement of Ca <sup>2+</sup> Transport and Muscle Relaxation in Skeletal Muscle From Sarcolipin Null Mice. <i>FASEB Journal</i> , <b>2008</b> , 22, 962.34	0.9	
11	Sarcolipin Ablation Increases Ca <sup>2+</sup> Pump Efficiency in Mouse Skeletal Muscle. <i>FASEB Journal</i> , <b>2008</b> , 22, 1157.5	0.9	1
10	Deficiency of smooth muscle myosin heavy chain isoform 2 increases muscle contractility and causes premature postnatal death in mice. <i>FASEB Journal</i> , <b>2008</b> , 22, 145-145	0.9	
9	SERCA pump isoforms: their role in calcium transport and disease. <i>Muscle and Nerve</i> , <b>2007</b> , 35, 430-42	3.4	344
8	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> , <b>2007</b> , 104, 17867-72	11.5	104
7	Sarcolipin and phospholamban as regulators of cardiac sarcoplasmic reticulum Ca <sup>2+</sup> ATPase. <i>Journal of Molecular and Cellular Cardiology</i> , <b>2007</b> , 42, 903-11	5.8	103
6	Differential expression of sarcolipin protein during muscle development and cardiac pathophysiology. <i>Journal of Molecular and Cellular Cardiology</i> , <b>2007</b> , 43, 215-22	5.8	109
5	Glutathiolation and Nitration of Sarcoplasmic Reticulum Ca <sup>2+</sup> -ATPase (SERCA) in hearts overexpressing SERCA1a-pump. <i>FASEB Journal</i> , <b>2007</b> , 21, A535	0.9	

4	Targeted overexpression of sarcolipin in the mouse heart decreases sarcoplasmic reticulum calcium transport and cardiac contractility. <i>Journal of Biological Chemistry</i> , <b>2006</b> , 281, 3972-9	5.4	56
3	Overexpression of sarcolipin decreases myocyte contractility and calcium transient. <i>Cardiovascular Research</i> , <b>2005</b> , 65, 177-86	9.9	37
2	Loss of SM-B myosin affects muscle shortening velocity and maximal force development. <i>Nature Cell Biology</i> , <b>2001</b> , 3, 1025-9	23.4	79
1	SERCA pump level is a critical determinant of Ca(2+)homeostasis and cardiac contractility. <i>Journal of Molecular and Cellular Cardiology</i> , <b>2001</b> , 33, 1053-63	5.8	236