

Mariappan Muthuchamy

List of Publications by Year in descending order

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57
papers

1,749
citations

279798

23
h-index

276875

41
g-index

59
all docs

59
docs citations

59
times ranked

1417
citing authors

#	ARTICLE	IF	CITATIONS
1	Lymphatic Collecting Vessel: New Perspectives on Mechanisms of Contractile Regulation and Potential Lymphatic Contractile Pathways to Target in Obesity and Metabolic Diseases. <i>Frontiers in Pharmacology</i> , 2022, 13, 848088.	3.5	13
2	Intracellular calcium dynamics of lymphatic endothelial and muscle cells co-cultured in a Lymphangion-Chip under pulsatile flow. <i>Analyst, The</i> , 2022, 147, 2953-2965.	3.5	2
3	Analysis of Lymphatic Vessel Formation by Whole-Mount Immunofluorescence Staining. <i>Methods in Molecular Biology</i> , 2021, 2319, 153-159.	0.9	1
4	Isolation of Lymphatic Muscle Cells (LMCs) from Rat Mesentery. <i>Methods in Molecular Biology</i> , 2021, 2319, 137-141.	0.9	1
5	Lymphangion-chip: a microphysiological system which supports co-culture and bidirectional signaling of lymphatic endothelial and muscle cells. <i>Lab on A Chip</i> , 2021, 22, 121-135.	6.0	13
6	Inflammatory state of lymphatic vessels and miRNA profiles associated with relapse in ovarian cancer patients. <i>PLoS ONE</i> , 2020, 15, e0230092.	2.5	4
7	Roles of sarcoplasmic reticulum Ca ²⁺ ATPase pump in the impairments of lymphatic contractile activity in a metabolic syndrome rat model. <i>Scientific Reports</i> , 2020, 10, 12320.	3.3	14
8	Insulin resistance disrupts cell integrity, mitochondrial function, and inflammatory signaling in lymphatic endothelium. <i>Microcirculation</i> , 2018, 25, e12492.	1.8	18
9	SUBSTANCE P REGULATES INFLAMMATORY PATHWAYS IN LYMPHATIC MUSCLE. <i>FASEB Journal</i> , 2018, 32, 576.6.	0.5	0
10	Citrus nomilin down-regulates TNF- α -induced proliferation of aortic smooth muscle cells via apoptosis and inhibition of I κ B. <i>European Journal of Pharmacology</i> , 2017, 811, 93-100.	3.5	8
11	Hyperglycemia and hyperinsulinemia induced insulin resistance causes alterations in cellular bioenergetics and activation of inflammatory signaling in lymphatic muscle. <i>FASEB Journal</i> , 2017, 31, 2744-2759.	0.5	51
12	Atomic force microscopy investigations of fibronectin and α 5 β 1-integrin signaling in neuroplasticity and seizure susceptibility in experimental epilepsy. <i>Epilepsy Research</i> , 2017, 138, 71-80.	1.6	14
13	Macrophage alterations within the mesenteric lymphatic tissue are associated with impairment of lymphatic pump in metabolic syndrome. <i>Microcirculation</i> , 2016, 23, 558-570.	1.8	33
14	Blunted flow-mediated responses and diminished nitric oxide synthase expression in lymphatic thoracic ducts of a rat model of metabolic syndrome. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2016, 310, H385-H393.	3.2	27
15	Lipopolysaccharide modulates neutrophil recruitment and macrophage polarization on lymphatic vessels and impairs lymphatic function in rat mesentery. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2015, 309, H2042-H2057.	3.2	46
16	MicroRNA signature of inflamed lymphatic endothelium and role of miR-9 in lymphangiogenesis and inflammation. <i>American Journal of Physiology - Cell Physiology</i> , 2015, 309, C680-C692.	4.6	53
17	Emerging trends in the pathophysiology of lymphatic contractile function. <i>Seminars in Cell and Developmental Biology</i> , 2015, 38, 55-66.	5.0	61
18	PKC activation increases Ca ²⁺ sensitivity of permeabilized lymphatic muscle via myosin light chain 20 phosphorylation-dependent and -independent mechanisms. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2014, 306, H674-H683.	3.2	26

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19	Instability in the Central Region of Tropomyosin Modulates the Function of Its Overlapping Ends. <i>Biophysical Journal</i> , 2013, 105, 2104-2113.	0.5	6
20	Interplay between the overlapping ends of tropomyosin and the N terminus of cardiac troponin T affects tropomyosin states on actin. <i>FASEB Journal</i> , 2013, 27, 3848-3859.	0.5	15
21	Maximum shortening velocity of lymphatic muscle approaches that of striated muscle. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2013, 305, H1494-H1507.	3.2	22
22	Lymphatic Filariasis: Perspectives on Lymphatic Remodeling and Contractile Dysfunction in Filarial Disease Pathogenesis. <i>Microcirculation</i> , 2013, 20, 349-364.	1.8	58
23	Immune cell mediated regulation of lymphatic contractility during inflammation. <i>FASEB Journal</i> , 2013, 27, 1131.17.	0.5	0
24	LPS mediated decreases in immune cells recruitment on or near lymphatics impairs lymphatic contractility. <i>FASEB Journal</i> , 2013, 27, 681.5.	0.5	2
25	Impairments in the intrinsic contractility of mesenteric collecting lymphatics in a rat model of metabolic syndrome. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2012, 302, H643-H653.	3.2	78
26	Atomic force microscopy study of ECM-integrin modulation of neuroplasticity in the hippocampal dentate granule cells in epilepsy. <i>FASEB Journal</i> , 2012, 26, 672.8.	0.5	1
27	Ca ²⁺ -related proteins associated with intracellular stores in rat lymphatics. <i>FASEB Journal</i> , 2012, 26, 677.5.	0.5	0
28	TNF- α mediated regulation of myosin light chain 20 phosphorylation in lymphatic muscle. <i>FASEB Journal</i> , 2012, 26, 677.6.	0.5	0
29	Substance P Activates Both Contractile and Inflammatory Pathways in Lymphatics Through the Neurokinin Receptors NK1R and NK3R. <i>Microcirculation</i> , 2011, 18, 24-35.	1.8	35
30	Differential effects of myosin light chain kinase inhibition on contractility, force development and myosin light chain 20 phosphorylation of rat cervical and thoracic duct lymphatics. <i>Journal of Physiology</i> , 2011, 589, 5415-5429.	2.9	34
31	Structure-function relationships of citrus limonoids on p38 MAP kinase activity in human aortic smooth muscle cells. <i>European Journal of Pharmacology</i> , 2011, 670, 44-49.	3.5	25
32	Ca ²⁺ sensitization of cardiac myofilament proteins contributes to exercise training-enhanced myocardial function in a porcine model of chronic occlusion. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2011, 301, H1579-H1587.	3.2	6
33	Lymphatic system: a vital link between metabolic syndrome and inflammation. <i>Annals of the New York Academy of Sciences</i> , 2010, 1207, E94-102.	3.8	59
34	Regulatory mechanisms in lymphatic vessel contraction under normal and inflammatory conditions. <i>Pathophysiology</i> , 2010, 17, 263-276.	2.2	61
35	Mechanical and contractile characteristics of rat thoracic duct and cervical lymphatics. <i>FASEB Journal</i> , 2010, 24, 972.9.	0.5	0
36	Substance P activates both inflammatory and contractile signaling pathways in the lymphatics through neurokinin receptors. <i>FASEB Journal</i> , 2010, 24, 777.15.	0.5	0

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37	Development of siRNA strategy to knockdown the regulatory contractile proteins in lymphatic muscle. <i>FASEB Journal</i> , 2010, 24, 1b678.	0.5	0
38	Inhibition of myosin light chain phosphorylation decreases rat mesenteric lymphatic contractile activity. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2009, 297, H726-H734.	3.2	61
39	CULTURE OF LYMPHATIC VESSELS AND DEVELOPMENT OF TRANSFECTION TECHNIQUES TO TARGET GENES INVOLVED IN REGULATION OF LYMPHATIC CONTRACTILITY. <i>FASEB Journal</i> , 2009, 23, 764.3.	0.5	0
40	Low density lipoprotein modulates rat mesenteric lymphatic pumping. <i>FASEB Journal</i> , 2009, 23, 764.1.	0.5	1
41	AGING AND LYMPHATIC CONTRACTILITY. <i>FASEB Journal</i> , 2009, 23, 764.4.	0.5	0
42	<i>Molecular Regulation of Lymphatic Contractility</i>. <i>Annals of the New York Academy of Sciences</i> , 2008, 1131, 89-99.	3.8	109
43	Modulation of lymphatic muscle contractility by the neuropeptide substance P. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2008, 295, H587-H597.	3.2	75
44	Calcium sensitivity and cooperativity of permeabilized rat mesenteric lymphatics. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2008, 294, R1524-R1532.	1.8	39
45	Differential Muscle Cell Recruitments and Functions in Mouse Lymphatic Tissue Beds. <i>FASEB Journal</i> , 2008, 22, 392.4.	0.5	0
46	Regulation of lymphatic contractility by myosin light chain phosphorylation. <i>FASEB Journal</i> , 2007, 21, A485.	0.5	0
47	Changes in end-to-end interactions of tropomyosin affect mouse cardiac muscle dynamics. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2006, 291, H552-H563.	3.2	8
48	Inhibition of myosin light chain phosphorylation decreases rat mesenteric lymphatic pump function. <i>FASEB Journal</i> , 2006, 20, A279.	0.5	0
49	Effects of Cεreactive protein on rat mesenteric lymphatic contractility. <i>FASEB Journal</i> , 2006, 20, .	0.5	1
50	Charged residue changes in the carboxy-terminus of $\hat{1}\pm$ -tropomyosin alter mouse cardiac muscle contractility. <i>Journal of Physiology</i> , 2004, 556, 531-543.	2.9	22
51	Charged residue alterations in the inner-core domain and carboxy-terminus of $\hat{1}\pm$ -tropomyosin differentially affect mouse cardiac muscle contractility. <i>Journal of Physiology</i> , 2004, 561, 777-791.	2.9	9
52	Molecular and functional analyses of the contractile apparatus in lymphatic muscle. <i>FASEB Journal</i> , 2003, 17, 1-25.	0.5	147
53	Mouse Model of a Familial Hypertrophic Cardiomyopathy Mutation in $\hat{1}\pm$ -Tropomyosin Manifests Cardiac Dysfunction. <i>Circulation Research</i> , 1999, 85, 47-56.	4.5	152
54	Correlation Between Myofilament Response to Ca^{2+} and Altered Dynamics of Contraction and Relaxation in Transgenic Cardiac Cells That Express $\hat{1}^2$ -Tropomyosin. <i>Circulation Research</i> , 1999, 84, 745-751.	4.5	80

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55	Ectopic expression of tropomyosin promotes myofibrillogenesis in mutant axolotl hearts. , 1998, 213, 412-420.		39
56	Exchange of β - for α -Tropomyosin in Hearts of Transgenic Mice Induces Changes in Thin Filament Response to Ca^{2+} , Strong Cross-bridge Binding, and Protein Phosphorylation. Journal of Biological Chemistry, 1996, 271, 11611-11614.	3.4	82
57	Molecular and Physiological Effects of Overexpressing Striated Muscle β -Tropomyosin in the Adult Murine Heart. Journal of Biological Chemistry, 1995, 270, 30593-30603.	3.4	137