David C Zawieja

List of Publications by Year
in descending order

		81743	95083
185	5,610	39	68
papers	citations	h-index	g-index

189	189	189	4194
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Contractile Physiology of Lymphatics. Lymphatic Research and Biology, 2009, 7, 87-96.	0.5	275
2	Inhibition of the active lymph pump by flow in rat mesenteric lymphatics and thoracic duct. Journal of Physiology, 2002, 540, 1023-1037.	1.3	241
3	Lymph Flow, Shear Stress, and Lymphocyte Velocity in Rat Mesenteric Prenodal Lymphatics. Microcirculation, 2006, 13, 597-610.	1.0	224
4	Inflammation induces lymphangiogenesis through up-regulation of VEGFR-3 mediated by NF-Î²B and Prox1. Blood, 2010, 115, 418-429.	0.6	177
5	Regional Variations of Contractile Activity in Isolated Rat Lymphatics. Microcirculation, 2004, 11, 477-492.	1.0	170
6	Lymphatic smooth muscle: the motor unit of lymph drainage. International Journal of Biochemistry and Cell Biology, 2004, 36, 1147-1153.	1.2	163
7	Contraction-initiated NO-dependent lymphatic relaxation: a self-regulatory mechanism in rat thoracic duct. Journal of Physiology, 2006, 575, 821-832.	1.3	154
8	Molecular and functional analyses of the contractile apparatus in lymphatic muscle. FASEB Journal, 2003, 17, 1-25.	0.2	147
9	Determinants of valve gating in collecting lymphatic vessels from rat mesentery. American Journal of Physiology - Heart and Circulatory Physiology, 2011, 301, H48-H60.	1.5	137
10	Molecular Regulation of Lymphatic Contractility. Annals of the New York Academy of Sciences, 2008, 1131, 89-99.	1.8	109
11	Agingâ€related anatomical and biochemical changes in lymphatic collectors impair lymph transport, fluid homeostasis, and pathogen clearance. Aging Cell, 2015, 14, 582-594.	3.0	106
12	Intrinsic increase in lymphangion muscle contractility in response to elevated afterload. American Journal of Physiology - Heart and Circulatory Physiology, 2012, 303, H795-H808.	1.5	104
13	The effects of inflammatory cytokines on lymphatic endothelial barrier function. Angiogenesis, 2014, 17, 395-406.	3.7	104
14	Collecting Lymphatic Vessel Permeability Facilitates Adipose Tissue Inflammation and Distribution of Antigen to Lymph Nodeâ€“Homing Adipose Tissue Dendritic Cells. Journal of Immunology, 2015, 194, 5200-5210.	0.4	102
15	Role of phospholipase C, protein kinase C, and calcium in VEGF-induced venular hyperpermeability. American Journal of Physiology - Heart and Circulatory Physiology, 1999, 276, H535-H542.	1.5	100
16	Intrinsic pump-conduit behavior of lymphangions. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2007, 292, R1510-R1518.	0.9	98
17	Modeling Lymph Flow and Fluid Exchange with Blood Vessels in Lymph Nodes. Lymphatic Research and Biology, 2015, 13, 234-247.	0.5	90
18	Nitric oxide formation by lymphatic bulb and valves is a major regulatory component of lymphatic pumping. American Journal of Physiology - Heart and Circulatory Physiology, 2011, 301, H1897-H1906.	1.5	85

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19	Impairments in the intrinsic contractility of mesenteric collecting lymphatics in a rat model of metabolic syndrome. American Journal of Physiology - Heart and Circulatory Physiology, 2012, 302, H643-H653.	1.5	78
20	Roles of phosphorylation of myosin binding protein-C and troponin I in mouse cardiac muscle twitch dynamics. Journal of Physiology, 2004, 558, 927-941.	1.3	76
21	Modulation of lymphatic muscle contractility by the neuropeptide substance P. American Journal of Physiology - Heart and Circulatory Physiology, 2008, 295, H587-H597.	1.5	75
22	Hydrodynamic regulation of lymphatic transport and the impact of aging. Pathophysiology, 2010, 17, 277-287.	1.0	75
23	Lymphatic Biology and the Microcirculation: Past, Present and Future. Microcirculation, 2005, 12, 141-150.	1.0	71
24	Lymphatic Muscle: A Review of Contractile Function. Lymphatic Research and Biology, 2003, 1, 147-158.	0.5	68
25	Length-tension relationships of small arteries, veins, and lymphatics from the rat mesenteric microcirculation. American Journal of Physiology - Heart and Circulatory Physiology, 2007, 292, H1943-H1952.	1.5	68
26	Independent and interactive effects of preload and afterload on the pump function of the isolated lymphangion. American Journal of Physiology - Heart and Circulatory Physiology, 2012, 303, H809-H824.	1.5	65
27	Measuring microlymphatic flow using fast video microscopy. Journal of Biomedical Optics, 2005, 10, 064016.	1.4	64
28	Inhibition of myosin light chain phosphorylation decreases rat mesenteric lymphatic contractile activity. American Journal of Physiology - Heart and Circulatory Physiology, 2009, 297, H726-H734.	1.5	61
29	Lymphatic system: a vital link between metabolic syndrome and inflammation. Annals of the New York Academy of Sciences, 2010, 1207, E94-102.	1.8	59
30	Lymphatic Filariasis: Perspectives on Lymphatic Remodeling and Contractile Dysfunction in Filarial Disease Pathogenesis. Microcirculation, 2013, 20, 349-364.	1.0	58
31	Engineered biomimetic nanovesicles show intrinsic anti-inflammatory properties for the treatment of inflammatory bowel diseases. Nanoscale, 2017, 9, 14581-14591.	2.8	57
32	MicroRNA signature of inflamed lymphatic endothelium and role of miR-9 in lymphangiogenesis and inflammation. American Journal of Physiology - Cell Physiology, 2015, 309, C680-C692.	2.1	53
33	Inflammationâ€induced lymphatic architecture and bone turnover changes are ameliorated by irisin treatment in chronic inflammatory bowel disease. FASEB Journal, 2018, 32, 4848-4861.	0.2	52
34	Inflammatory Bowel Disease in a Rodent Model Alters Osteocyte Protein Levels Controlling Bone Turnover. Journal of Bone and Mineral Research, 2017, 32, 802-813.	3.1	50
35	Inhibition of active lymph pump by simulated microgravity in rats. American Journal of Physiology - Heart and Circulatory Physiology, 2006, 290, H2295-H2308.	1.5	48
36	Effects of dynamic shear and transmural pressure on wall shear stress sensitivity in collecting lymphatic vessels. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2015, 309, R1122-R1134.	0.9	48

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37	Image Correlation Algorithm for Measuring Lymphocyte Velocity and Diameter Changes in Contracting Microlymphatics. Annals of Biomedical Engineering, 2007, 35, 387-396.	1.3	46
38	Lipopolysaccharide modulates neutrophil recruitment and macrophage polarization on lymphatic vessels and impairs lymphatic function in rat mesentery. American Journal of Physiology - Heart and Circulatory Physiology, 2015, 309, H2042-H2057.	1.5	46
39	Reduced mitochondrial buffering of voltage-gated calcium influx in aged rat basal forebrain neurons. Cell Calcium, 2004, 36, 61-75.	1.1	43
40	Demonstration and Analysis of the Suction Effect for Pumping Lymph from Tissue Beds at Subatmospheric Pressure. Scientific Reports, 2017, 7, 12080.	1.6	41
41	Cyclic guanosine monophosphate and the dependent protein kinase regulate lymphatic contractility in rat thoracic duct. Journal of Physiology, 2013, 591, 4549-4565.	1.3	40
42	Electrophysiological Properties of Rat Mesenteric Lymphatic Vessels and their Regulation by Stretch. Lymphatic Research and Biology, 2014, 12, 66-75.	0.5	40
43	Length-Dependence of Lymphatic Phasic Contractile Activity Under Isometric and Isobaric Conditions. Microcirculation, 2007, 14, 613-625.	1.0	39
44	Calcium sensitivity and cooperativity of permeabilized rat mesenteric lymphatics. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2008, 294, R1524-R1532.	0.9	39
45	Effects of Substance P on Mesenteric Lymphatic Contractility in the Rat. Lymphatic Research and Biology, 2004, 2, 2-10.	0.5	38
46	Oxidized Low-Density Lipoprotein Inhibits Nitric Oxide-Mediated Coronary Arteriolar Dilation by Up-regulating Endothelial Arginase I. Microcirculation, 2011, 18, 36-45.	1.0	38
47	Lymph Transport in Rat Mesenteric Lymphatics Experiencing Edemagenic Stress. Microcirculation, 2014, 21, 359-367.	1.0	38
48	Network Scale Modeling of Lymph Transport and Its Effective Pumping Parameters. PLoS ONE, 2016, 11, e0148384.	1.1	38
49	Substance P Activates Both Contractile and Inflammatory Pathways in Lymphatics Through the Neurokinin Receptors NK1R and NK3R. Microcirculation, 2011, 18, 24-35.	1.0	35
50	Hyperglycemia impairs cytotrophoblast function via stress signaling. American Journal of Obstetrics and Gynecology, 2014, 211, 541.e1-541.e8.	0.7	35
51	Quantitative Profiling of the Lymph Node Clearance Capacity. Scientific Reports, 2018, 8, 11253.	1.6	35
52	Thermal effects of MR imaging: worst-case studies on sheep.. American Journal of Roentgenology, 1990, 155, 1105-1110.	1.0	34
53	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. Journal of Physiology, 2011, 589, 5415-5429.	1.3	34
54	Signaling pathways mediating VEGF 165 â€induced calcium transients and membrane depolarization in human endothelial cells. FASEB Journal, 2006, 20, 991-993.	0.2	33

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55	Methods for Lymphatic Vessel Culture and Gene Transfection. Microcirculation, 2009, 16, 615-628.	1.0	33
56	Stromal Interaction Molecule 1 (STIM1) and Orai1 Mediate Histamine-evoked Calcium Entry and Nuclear Factor of Activated T-cells (NFAT) Signaling in Human Umbilical Vein Endothelial Cells. Journal of Biological Chemistry, 2014, 289, 29446-29456.	1.6	33
57	Macrophage alterations within the mesenteric lymphatic tissue are associated with impairment of lymphatic pump in metabolic syndrome. Microcirculation, 2016, 23, 558-570.	1.0	33
58	Development and Characterization of Endothelial Cells from Rat Microlymphatics. Lymphatic Research and Biology, 2003, 1, 101-119.	0.5	32
59	Automated Measurement of Diameter and Contraction Waves of Cannulated Lymphatic Microvessels. Lymphatic Research and Biology, 2006, 4, 3-10.	0.5	32
60	Passive Pressureâ€“Diameter Relationship and Structural Composition of Rat Mesenteric Lymphangions. Lymphatic Research and Biology, 2012, 10, 152-163.	0.5	32
61	Colonic Insult Impairs Lymph Flow, Increases Cellular Content of the Lymph, Alters Local Lymphatic Microenvironment, and Leads to Sustained Inflammation in the Rat Ileum. Inflammatory Bowel Diseases, 2015, 21, 1553-1563.	0.9	32
62	Mast cells and histamine are triggering the NF-ÎºB-mediated reactions of adult and aged perilymphatic mesenteric tissues to acute inflammation. Aging, 2016, 8, 3065-3090.	1.4	31
63	Characterization of mouse ocular response to a 35-day spaceflight mission: Evidence of blood-retinal barrier disruption and ocular adaptations. Scientific Reports, 2019, 9, 8215.	1.6	30
64	Apoptotic and stress signaling markers are augmented in preeclamptic placenta and umbilical cord. BBA Clinical, 2016, 6, 25-30.	4.1	29
65	DSS-induced colitis produces inflammation-induced bone loss while irisin treatment mitigates the inflammatory state in both gut and bone. Scientific Reports, 2019, 9, 15144.	1.6	29
66	Regional Heterogeneity of Lengthâ€“Tension Relationships in Rat Lymph Vessels. Lymphatic Research and Biology, 2012, 10, 14-19.	0.5	28
67	Determining the combined effect of the lymphatic valve leaflets and sinus on resistance to forward flow. Journal of Biomechanics, 2015, 48, 3584-3590.	0.9	28
68	A Novel Computational Model Predicts Key Regulators of Chemokine Gradient Formation in Lymph Nodes and Site-Specific Roles for CCL19 and ACKR4. Journal of Immunology, 2017, 199, 2291-2304.	0.4	28
69	Pathogenesis of pre-eclampsia: marinobufagenin and angiogenic imbalance as biomarkers of the syndrome. Translational Research, 2012, 160, 99-113.	2.2	27
70	ILâ€1Î² reduces tonic contraction of mesenteric lymphatic muscle cells, with the involvement of cycloxygenaseâ€2 and prostaglandin <scp>E</scp>₂. British Journal of Pharmacology, 2015, 172, 4038-4051.	2.7	27
71	Blunted flow-mediated responses and diminished nitric oxide synthase expression in lymphatic thoracic ducts of a rat model of metabolic syndrome. American Journal of Physiology - Heart and Circulatory Physiology, 2016, 310, H385-H393.	1.5	27
72	Confocal Image-Based Computational Modeling of Nitric Oxide Transport in a Rat Mesenteric Lymphatic Vessel. Journal of Biomechanical Engineering, 2013, 135, 51005.	0.6	26

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73	PKC activation increases Ca²⁺sensitivity of permeabilized lymphatic muscle via myosin light chain 20 phosphorylation-dependent and -independent mechanisms. American Journal of Physiology - Heart and Circulatory Physiology, 2014, 306, H674-H683.	1.5	26
74	Lymphatic Microcirculation. Microcirculation, 1996, 3, 241-243.	1.0	23
75	Protein Transfection of Intact Microvessels Specifically Modulates Vasoreactivity and Permeability. Journal of Vascular Research, 2001, 38, 444-452.	0.6	23
76	Modulation of the Tryptophan Hydroxylase 1/Monoamine Oxidaseâ€A/5â€Hydroxytryptamine/5â€Hydroxytryptamine Receptor 2A/2B/2C Axis Regulates Biliary Proliferation and Liver Fibrosis During Cholestasis. Hepatology, 2020, 71, 990-1008.	3.6	23
77	Molecular Profile and Proliferative Responses of Rat Lymphatic Endothelial Cells in Culture. Lymphatic Research and Biology, 2006, 4, 119-142.	0.5	22
78	Maximum shortening velocity of lymphatic muscle approaches that of striated muscle. American Journal of Physiology - Heart and Circulatory Physiology, 2013, 305, H1494-H1507.	1.5	22
79	Targeting Lymphangiogenesis and Lymph Node Metastasis in Liver Cancer. American Journal of Pathology, 2021, 191, 2052-2063.	1.9	22
80	Diminished mesenteric vaso- and venoconstriction and elevated plasma ANP and BNP with simulated microgravity. Journal of Applied Physiology, 2008, 104, 1273-1280.	1.2	21
81	IL-1Î² reduces cardiac lymphatic muscle contraction via COX-2 and PGE2 induction: Potential role in myocarditis. Biomedicine and Pharmacotherapy, 2018, 107, 1591-1600.	2.5	21
82	Measuring contraction propagation and localizing pacemaker cells using high speed video microscopy. Journal of Biomedical Optics, 2011, 16, 1.	1.4	20
83	An Immunological Fingerprint Differentiates Muscular Lymphatics from Arteries and Veins. Lymphatic Research and Biology, 2013, 11, 155-171.	0.5	20
84	The isolation and characterization of a new snake venom cysteine-rich secretory protein (svCRiSP) from the venom of the Southern Pacific rattlesnake and its effect on vascular permeability. Toxicon, 2019, 165, 22-30.	0.8	19
85	Microarray Analysis of VEGF-C Responsive Genes in Human Lymphatic Endothelial Cells. Lymphatic Research and Biology, 2005, 3, 183-207.	0.5	18
86	Lymphatic Cannulation for Lymph Sampling and Molecular Delivery. Journal of Immunology, 2019, 203, 2339-2350.	0.4	18
87	Pinealectomy or light exposure exacerbates biliary damage and liver fibrosis in cholestatic rats through decreased melatonin synthesis. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2019, 1865, 1525-1539.	1.8	18
88	Prolonged intake of desloratadine: mesenteric lymphatic vessel dysfunction and development of obesity/metabolic syndrome. American Journal of Physiology - Renal Physiology, 2019, 316, G217-G227.	1.6	18
89	Borrelia burgdorferi adhere to blood vessels in the dura mater and are associated with increased meningeal T cells during murine disseminated borreliosis. PLoS ONE, 2018, 13, e0196893.	1.1	16
90	Microparticle image velocimetry approach to flow measurements in isolated contracting lymphatic vessels. Journal of Biomedical Optics, 2016, 21, 1.	1.4	15

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91	Characteristics of the Active Lymph Pump in Bovine Prenodal Mesenteric Lymphatics. Lymphatic Research and Biology, 2007, 5, 71-80.	0.5	14
92	Histamine-mediated autocrine signaling in mesenteric perilymphatic mast cells. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2020, 318, R590-R604.	0.9	14
93	Suppression of aldosterone and progesterone in preeclampsia. Journal of Maternal-Fetal and Neonatal Medicine, 2015, 28, 1296-1301.	0.7	13
94	Impairment of lymphatic endothelial barrier function by X-ray irradiation. International Journal of Radiation Biology, 2019, 95, 562-570.	1.0	13
95	Lymphangion-chip: a microphysiological system which supports co-culture and bidirectional signaling of lymphatic endothelial and muscle cells. Lab on A Chip, 2021, 22, 121-135.	3.1	13
96	Physiology and pathobiology of the microcirculation. American Journal of Otolaryngology - Head and Neck Medicine and Surgery, 1988, 9, 264-277.	0.6	12
97	A moderately elevated soy protein diet mitigates inflammatory changes in gut and in bone turnover during chronic TNBS-induced inflammatory bowel disease. Applied Physiology, Nutrition and Metabolism, 2019, 44, 595-605.	0.9	12
98	Inhibition of the active lymph pump by flow in rat mesenteric lymphatics and thoracic duct. , 2002, 540, 1023.		12
99	An Automated Method to Control Preload by Compensation for Stress Relaxation in Spontaneously Contracting, Isometric Rat Mesenteric Lymphatics. Microcirculation, 2007, 14, 603-612.	1.0	11
100	3,4â€™,7-O-trimethylquercetin Inhibits Invasion and Migration of Ovarian Cancer Cells. Anticancer Research, 2017, 37, 2823-2829.	0.5	11
101	Hypoxia and Extracellular Matrix Proteins Influence Angiogenesis and Lymphangiogenesis in Mouse Embryoid Bodies. Frontiers in Physiology, 2011, 2, 103.	1.3	10
102	Charged residue alterations in the inner-core domain and carboxy-terminus of Î±-tropomyosin differentially affect mouse cardiac muscle contractility. Journal of Physiology, 2004, 561, 777-791.	1.3	9
103	Attenuation of hyperglycemia-induced apoptotic signaling and anti-angiogenic milieu in cultured cytotrophoblast cells. Hypertension in Pregnancy, 2016, 35, 159-169.	0.5	9
104	Differential Mechanism of Action of 3,4â€™,7-O-trimethylquercetin in Three Types of Ovarian Cancer Cells. Anticancer Research, 2018, 38, 5131-5137.	0.5	9
105	Analysis of picogram quantities of protein in subnanoliter-size samples. Analytical Biochemistry, 1984, 142, 182-188.	1.1	8
106	Effect of the non-peptide blocker CP 96,345 on the cellular mechanism involved in the response to NK1 receptor stimulation in human skin fibroblasts. Neuropeptides, 1996, 30, 345-354.	0.9	8
107	Changes in end-to-end interactions of tropomyosin affect mouse cardiac muscle dynamics. American Journal of Physiology - Heart and Circulatory Physiology, 2006, 291, H552-H563.	1.5	8
108	Venomotion modulates lymphatic pumping in the bat wing. American Journal of Physiology - Heart and Circulatory Physiology, 2009, 296, H2015-H2021.	1.5	8

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109	Pulmonary Air Embolization Inhibits Lung Lymph Flow by Increasing Lymphatic Outflow Pressure. Lymphatic Research and Biology, 2006, 4, 18-22.	0.5	7
110	Cinobufotalin impedes Sw.71 cytotrophoblast cell line function via cell cycle arrest and apoptotic signaling. Molecular and Cellular Biochemistry, 2016, 422, 189-196.	1.4	7
111	Relationship between cardiac protein tyrosine phosphorylation and myofibrillogenesis during axolotl heart development. Tissue and Cell, 2003, 35, 133-142.	1.0	6
112	Microlymphatic Biology. , 2008, , 125-158.		6
113	Integrated geometric and mechanical analysis of an image-based lymphatic valve. Journal of Biomechanics, 2017, 64, 172-179.	0.9	6
114	Ca²⁺release-activated Ca²⁺channels are responsible for histamine-induced Ca²⁺entry, permeability increase, and interleukin synthesis in lymphatic endothelial cells. American Journal of Physiology - Heart and Circulatory Physiology, 2020, 318, H1283-H1295.	1.5	6
115	A multiscale sliding filament model of lymphatic muscle pumping. Biomechanics and Modeling in Mechanobiology, 2021, 20, 2179-2202.	1.4	6
116	Differential Effects of In Vitro Treatment with Cinobufotalin on Three Types of Ovarian Cancer Cells. Anticancer Research, 2018, 38, 5717-5724.	0.5	5
117	Effect of the snake venom component crotamine on lymphatic endothelial cell responses and lymph transport. Microcirculation, 2023, 30, .	1.0	5
118	Inflammatory state of lymphatic vessels and miRNA profiles associated with relapse in ovarian cancer patients. PLoS ONE, 2020, 15, e0230092.	1.1	4
119	The Role of Lymphatics in Cholestasis: A Comprehensive Review. Seminars in Liver Disease, 2020, 40, 403-410.	1.8	4
120	Dichotomous effects on lymphatic transport with loss of caveolae in mice. Acta Physiologica, 2021, 232, e13656.	1.8	4
121	RATEâ€SENSITIVE CONTRACTILE RESPONSES OF RAT MESENTERIC LYMPHATICS TO CIRCUMFERENTIAL STRETCH. FASEB Journal, 2007, 21, A485.	0.2	4
122	Hyperglycemia down-regulates cGMP-dependent protein kinase I expression in first trimester cytotrophoblast cells. Molecular and Cellular Biochemistry, 2015, 405, 81-88.	1.4	3
123	Altered rodent gait characteristics after ~35 days in orbit aboard the International Space Station. Life Sciences in Space Research, 2020, 24, 9-17.	1.2	3
124	Imposed flowâ€dependent inhibition in rat thoracic duct is not dependent from on K channel blockade. FASEB Journal, 2007, 21, A485.	0.2	3
125	Inhibition of the active lymph pump by flow in rat mesenteric lymphatics and thoracic duct. , 2002, 540, 1023.		3
126	Multiple Ionic Mechanisms Activated by Bradykinin in Coronary Venular Endothelial Cells. Endothelium: Journal of Endothelial Cell Research, 1996, 4, 29-40.	1.7	2

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127	Temporal Dynamics of the Rat Thoracic Duct Contractility in the Presence of Imposed Flow. Lymphatic Research and Biology, 2017, 15, 324-330.	0.5	2
128	Burn Injury-Associated MHCII+ Immune Cell Accumulation Around Lymphatic Vessels of the Mesentery and Increased Lymphatic Endothelial Permeability Are Blocked by Doxycycline Treatment. Lymphatic Research and Biology, 2018, 16, 56-64.	0.5	2
129	Adenovirus-Mediated Gene Transfection in the Isolated Lymphatic Vessels. Methods in Molecular Biology, 2012, 843, 199-204.	0.4	2
130	Cinobufotalin as a Novel Agent to Inhibit <i>in Vitro</i> Epithelial Ovarian Cancer Cell Proliferation, Migration and Invasion. Open Journal of Obstetrics and Gynecology, 2016, 06, 343-351.	0.1	2
131	LPS mediated decreases in immune cells recruitment on or near lymphatics impairs lymphatic contractility. FASEB Journal, 2013, 27, 681.5.	0.2	2
132	Intracellular calcium dynamics of lymphatic endothelial and muscle cells co-cultured in a Lymphangion-Chip under pulsatile flow. Analyst, The, 2022, 147, 2953-2965.	1.7	2
133	Construction of an optical bench microscope for intravital studies. Microvascular Research, 1987, 33, 433-436.	1.1	1
134	Microlymphatic flow using fast video microscopy. , 2005, , .		1
135	Analysis of Lymphatic Vessel Formation by Whole-Mount Immunofluorescence Staining. Methods in Molecular Biology, 2021, 2319, 153-159.	0.4	1
136	Isolation of Lymphatic Muscle Cells (LMCs) from Rat Mesentery. Methods in Molecular Biology, 2021, 2319, 137-141.	0.4	1
137	Cartiotonic steroids affect monolayer permeability in lymphatic endothelial cells. Molecular and Cellular Biochemistry, 2021, 476, 3207-3213.	1.4	1
138	Shortening velocities of rat mesenteric lymphatics during spontaneous and agonistâ€induced contractions. FASEB Journal, 2006, 20, A279.	0.2	1
139	Effects of Câ€reactive protein on rat mesenteric lymphatic contractility. FASEB Journal, 2006, 20, .	0.2	1
140	PRESSUREâ€VOLUME RELATIONSHIPS OF RAT MESENTERIC LYMPHATIC VESSELS IN RESPONSE TO CONTROLLED PRELOAD AND AFTERLOAD STEPS. FASEB Journal, 2007, 21, A485.	0.2	1
141	Low density lipoprotein modulates rat mesenteric lymphatic pumping. FASEB Journal, 2009, 23, 764.1.	0.2	1
142	Lymph Transport and Lymphatic System. , 2005, , 398-401.		1
143	Image correlation method for measuring flow and diameter changes in contracting mesenteric microlymphatics in situ. , 2006, , .		0
144	Nitric Oxide Transport in Lymphatic Vessels. , 2011, , .		0

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145	783 UPREGULATION OF (PRO)RENIN AND ITS RECEPTOR IN PREECLAMPSIA. Journal of Hypertension, 2012, 30, e226.	0.3	0
146	994 MARINOBUFAGENIN CAUSES CEREBRAL VASCULAR LEAK SYNDROME IN PREECLAMPSIA. Journal of Hypertension, 2012, 30, e288.	0.3	0
147	Developing a Model for Mass Transport of Nitric Oxide in the Lymphatic System. , 2012, , .		0
148	217: A bufadienolide suppresses aldosterone availability in preeclampsia: a translational approach with in vivo, in vitro, and patient study. American Journal of Obstetrics and Gynecology, 2012, 206, S108.	0.7	0
149	218: A bufadienolide causes cerebral vascular leak syndrome in preeclampsia: in vivo and in vitro study. American Journal of Obstetrics and Gynecology, 2012, 206, S109.	0.7	0
150	Hypoxia Modulates the Cellular Signaling in Cultured Rat Lung Microvascular Endothelial Cells. Chest, 2014, 146, 857A.	0.4	0
151	Tu1737 IL-1Î² Inhibits Contraction of Intestinal Lymphatic Smooth Muscle -Implications for Chronic Gut Inflammation. Gastroenterology, 2014, 146, S-830.	0.6	0
152	345: Cardiotonic steroids cause monolayer hyperpermeability in lymphatic endothelial cells via nitric oxide dependent pathway. American Journal of Obstetrics and Gynecology, 2014, 210, S178.	0.7	0
153	818: A single-chain derivative of the relaxin hormone (b7-33) protects cytotrophoblasts from hyperglycemia-induced preeclampsia phenotype and induces the survival pathway. American Journal of Obstetrics and Gynecology, 2017, 216, S469-S470.	0.7	0
154	Hydrodynamic regulation of lymphatic vessel transport function and the impact of aging. , 2020, , 55-92.		0
155	Effect of Rapamycin on Contractility of Lymphatic Vessel and Energy Metabolism of Lymphatic Muscle Cells. FASEB Journal, 2021, 35, .	0.2	0
156	Quantifying Lymphatic Endothelial Cell Morphological Changes in Response to Fluid Shear Stress, Cyclic Strain, or Combined Stress and Strain In Vitro. FASEB Journal, 2021, 35, .	0.2	0
157	Phasic contractions responsible for an NOâ€dependent relaxation in rat thoracic duct. FASEB Journal, 2006, 20, A280.	0.2	0
158	Inhibition of myosin light chain phosphorylation decreases rat mesenteric lymphatic pump function. FASEB Journal, 2006, 20, A279.	0.2	0
159	Regulation of lymphatic contractility by myosin light chain phosphorylation. FASEB Journal, 2007, 21, A485.	0.2	0
160	Differential Muscle Cell Recruitments and Functions in Mouse Lymphatic Tissue Beds. FASEB Journal, 2008, 22, 392.4.	0.2	0
161	Nitric Oxide Production By Contracting Rat Mesenteric Lymphatic Vessels Is Primarily Within Valvular Regions. FASEB Journal, 2008, 22, 1141.6.	0.2	0
162	Developing Computational Flow Models for the Lymphatic Vasculature. , 2008, , .		0

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163	cGMP/PKGâ€mediated regulation of lymphatic contractility. FASEB Journal, 2009, 23, 813.4.	0.2	0
164	CULTURE OF LYMPHATIC VESSELS AND DEVELOPMENT OF TRANSFECTION TECHNIQUES TO TARGET GENES INVOLVED IN REGULATION OF LYMPHATIC CONTRACTILITY. FASEB Journal, 2009, 23, 764.3.	0.2	0
165	Mechanical and contractile characteristics of rat thoracic duct and cervical lymphatics. FASEB Journal, 2010, 24, 972.9.	0.2	0
166	Flowâ€mediated NO production in the endothelium is dependent on eNOS activity and shear.. FASEB Journal, 2010, 24, 972.3.	0.2	0
167	Substance P activates both inflammatory and contractile signaling pathways in the lymphatics through neurokinin receptors. FASEB Journal, 2010, 24, 777.15.	0.2	0
168	Development of siRNA strategy to knockdown the regulatory contractile proteins in lymphatic muscle. FASEB Journal, 2010, 24, lb678.	0.2	0
169	CINOBUFATALIN IMPAIRS FIRST TRIMESTER CYTOTROPHOBLAST FUNCTIONS VIA CELL CYCLE ARREST AND APOPTOTIC SIGNALING. FASEB Journal, 2011, 25, lb139.	0.2	0
170	Effects of Edemagenic Stress on Lymph Transport in the Rat Mesentery. , 2011, , .		0
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