David C Zawieja

List of Publications by Year in Descending Order

168 papers	4,450 citations	36 h-index	61 g-index
189 ext. papers	5,032 ext. citations	3.2 avg, IF	5.61 L-index

#	Paper	IF	Citations
168	Lymphangion-chip: a microphysiological system which supports co-culture and bidirectional signaling of lymphatic endothelial and muscle cells. *Lab on A Chip*, **2021**,	7.2	4
167	Cartiotonic steroids affect monolayer permeability in lymphatic endothelial cells. *Molecular and Cellular Biochemistry*, **2021**, 476, 3207-3213	4.2	1
166	Dichotomous effects on lymphatic transport with loss of caveolae in mice. *Acta Physiologica*, **2021**, 232, e13656	5.6	1
165	Analysis of Lymphatic Vessel Formation by Whole-Mount Immunofluorescence Staining. *Methods in Molecular Biology*, **2021**, 2319, 153-159	1.4	0
164	Isolation of Lymphatic Muscle Cells (LMCs) from Rat Mesentery. *Methods in Molecular Biology*, **2021** , 2319, 137-141	1.4	1
163	A multiscale sliding filament model of lymphatic muscle pumping. *Biomechanics and Modeling in Mechanobiology*, **2021**, 20, 2179-2202	3.8	1
162	Targeting Lymphangiogenesis and Lymph Node Metastasis in Liver Cancer. *American Journal of Pathology*, **2021**, 191, 2052-2063	5.8	4
161	Hydrodynamic regulation of lymphatic vessel transport function and the impact of aging **2020**, 55-92		
160	Histamine-mediated autocrine signaling in mesenteric perilymphatic mast cells. *American Journal of Physiology - Regulatory Integrative and Comparative Physiology*, **2020**, 318, R590-R604	3.2	8
159	Altered rodent gait characteristics after ~35 days in orbit aboard the International Space Station. *Life Sciences in Space Research*, **2020**, 24, 9-17	2.4	1
158	Inflammatory state of lymphatic vessels and miRNA profiles associated with relapse in ovarian cancer patients. *PLoS ONE*, **2020**, 15, e0230092	3.7	2
157	The Role of Lymphatics in Cholestasis: A Comprehensive Review. *Seminars in Liver Disease*, **2020**, 40, 403-410	7.3	2
156	Modulation of the Tryptophan Hydroxylase 1/Monoamine Oxidase-A/5-Hydroxytryptamine/5-Hydroxytryptamine Receptor 2A/2B/2C Axis Regulates Biliary Proliferation and Liver Fibrosis During Cholestasis. *Hepatology*, **2020**, 71, 990-1008	11.2	18
155	Ca release-activated Ca channels are responsible for histamine-induced Ca entry, permeability increase, and interleukin synthesis in lymphatic endothelial cells. *American Journal of Physiology - Heart and Circulatory Physiology*, **2020**, 318, H1283-H1295	5.2	4
154	Lymphatic Cannulation for Lymph Sampling and Molecular Delivery. *Journal of Immunology*, **2019**, 203, 2339-2350	5.3	10
153	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	4.9	19
152	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	2.8	7

151	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	6.9	11
150	Impairment of lymphatic endothelial barrier function by X-ray irradiation. *International Journal of Radiation Biology*, **2019**, 95, 562-570	2.9	6
149	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	4.9	16
148	Progressive dysfunction of collecting liver lymphatics during the development of extrahepatic cholestasis. *FASEB Journal*, **2019**, 33, 662.64	0.9	
147	Prolonged intake of desloratadine: mesenteric lymphatic vessel dysfunction and development of obesity/metabolic syndrome. *American Journal of Physiology - Renal Physiology*, **2019**, 316, G217-G227	5.1	10
146	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	3	11
145	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	2.3	2
144	Quantitative Profiling of the Lymph Node Clearance Capacity. *Scientific Reports*, **2018**, 8, 11253	4.9	20
143	Inflammation-induced lymphatic architecture and bone turnover changes are ameliorated by irisin treatment in chronic inflammatory bowel disease. *FASEB Journal*, **2018**, 32, 4848-4861	0.9	35
142	Differential Mechanism of Action of 3,4′,7-O-trimethylquercetin in Three Types of Ovarian Cancer Cells. *Anticancer Research*, **2018**, 38, 5131-5137	2.3	5
141	Differential Effects of Treatment with Cinobufotalin on Three Types of Ovarian Cancer Cells. *Anticancer Research*, **2018**, 38, 5717-5724	2.3	2
140	IL-1□reduces cardiac lymphatic muscle contraction via COX-2 and PGE induction: Potential role in myocarditis. *Biomedicine and Pharmacotherapy*, **2018**, 107, 1591-1600	7.5	11
139	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	3.7	9
138	Integrated geometric and mechanical analysis of an image-based lymphatic valve. *Journal of Biomechanics*, **2017**, 64, 172-179	2.9	3
137	Demonstration and Analysis of the Suction Effect for Pumping Lymph from Tissue Beds at Subatmospheric Pressure. *Scientific Reports*, **2017**, 7, 12080	4.9	23
136	Engineered biomimetic nanovesicles show intrinsic anti-inflammatory properties for the treatment of inflammatory bowel diseases. *Nanoscale*, **2017**, 9, 14581-14591	7.7	41
135	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	5.3	20
134	Inflammatory Bowel Disease in a Rodent Model Alters Osteocyte Protein Levels Controlling Bone Turnover. *Journal of Bone and Mineral Research*, **2017**, 32, 802-813	6.3	36

133	Temporal Dynamics of the Rat Thoracic Duct Contractility in the Presence of Imposed Flow. *Lymphatic Research and Biology*, **2017**, 15, 324-330	2.3	2
132	3,4',7-O-trimethylquercetin Inhibits Invasion and Migration of Ovarian Cancer Cells. *Anticancer Research*, **2017**, 37, 2823-2829	2.3	6
131	Microparticle image velocimetry approach to flow measurements in isolated contracting lymphatic vessels. *Journal of Biomedical Optics*, **2016**, 21, 25002	3.5	13
130	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, H385-93	5.2	17
129	Attenuation of hyperglycemia-induced apoptotic signaling and anti-angiogenic milieu in cultured cytotrophoblast cells. *Hypertension in Pregnancy*, **2016**, 35, 159-69	2	8
128	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
127	Anti-MBG antibodies attenuate MBG-induced anti-proliferative and anti-angiogenic milieu in cytotrophoblast cell model. *FASEB Journal*, **2016**, 30, 1211.7	0.9	
126	Mast cells and histamine are triggering the NF-B-mediated reactions of adult and aged perilymphatic mesenteric tissues to acute inflammation. *Aging*, **2016**, 8, 3065-3090	5.6	23
125	Network Scale Modeling of Lymph Transport and Its Effective Pumping Parameters. *PLoS ONE*, **2016**, 11, e0148384	3.7	28
124	Apoptotic and stress signaling markers are augmented in preeclamptic placenta and umbilical cord. *BBA Clinical*, **2016**, 6, 25-30		24
123	Macrophage alterations within the mesenteric lymphatic tissue are associated with impairment of lymphatic pump in metabolic syndrome. *Microcirculation*, **2016**, 23, 558-570	2.9	17
122	Cinobufotalin impedes Sw.71 cytotrophoblast cell line function via cell cycle arrest and apoptotic signaling. *Molecular and Cellular Biochemistry*, **2016**, 422, 189-196	4.2	6
121	Suppression of aldosterone and progesterone in preeclampsia. *Journal of Maternal-Fetal and Neonatal Medicine*, **2015**, 28, 1296-1301	2	10
120	Hyperglycemia down-regulates cGMP-dependent protein kinase I expression in first trimester cytotrophoblast cells. *Molecular and Cellular Biochemistry*, **2015**, 405, 81-8	4.2	2
119	Collecting lymphatic vessel permeability facilitates adipose tissue inflammation and distribution of antigen to lymph node-homing adipose tissue dendritic cells. *Journal of Immunology*, **2015**, 194, 5200-10	5.3	84
118	Aging-related anatomical and biochemical changes in lymphatic collectors impair lymph transport, fluid homeostasis, and pathogen clearance. *Aging Cell*, **2015**, 14, 582-94	9.9	74
117	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, H2042-57	5.2	32
116	MicroRNA signature of inflamed lymphatic endothelium and role of miR-9 in lymphangiogenesis and inflammation. *American Journal of Physiology - Cell Physiology*, **2015**, 309, C680-92	5.4	40

115	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, 1553-63	4.5	27
114	IL-1□reduces tonic contraction of mesenteric lymphatic muscle cells, with the involvement of cycloxygenase-2 and prostaglandin E2. *British Journal of Pharmacology*, **2015**, 172, 4038-51	8.6	25
113	Determining the combined effect of the lymphatic valve leaflets and sinus on resistance to forward flow. *Journal of Biomechanics*, **2015**, 48, 3584-90	2.9	21
112	Modeling Lymph Flow and Fluid Exchange with Blood Vessels in Lymph Nodes. *Lymphatic Research and Biology*, **2015**, 13, 234-47	2.3	68
111	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, R1122-34	3.2	35
110	Cinobufotalin Inhibits Ovarian Cancer Cells Proliferation, Migration and Invasion. *FASEB Journal*, **2015**, 29, LB121	0.9	
109	The effects of inflammatory cytokines on lymphatic endothelial barrier function. *Angiogenesis*, **2014**, 17, 395-406	10.6	81
108	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, 29446-56	5.4	28
107	PKC activation increases Ca□+ 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, H674-83	5.2	19
106	Electrophysiological properties of rat mesenteric lymphatic vessels and their regulation by stretch. *Lymphatic Research and Biology*, **2014**, 12, 66-75	2.3	33
105	Lymph transport in rat mesenteric lymphatics experiencing edemagenic stress. *Microcirculation*, **2014**, 21, 359-67	2.9	28
104	Hyperglycemia impairs cytotrophoblast function via stress signaling. *American Journal of Obstetrics and Gynecology*, **2014**, 211, 541.e1-8	6.4	30
103	Lymph transport in rat mesenteric lymphatics experiencing edemagenic stress (LB851). *FASEB Journal*, **2014**, 28, LB851	0.9	
102	Confocal image-based computational modeling of nitric oxide transport in a rat mesenteric lymphatic vessel. *Journal of Biomechanical Engineering*, **2013**, 135, 51005	2.1	22
101	Cyclic guanosine monophosphate and the dependent protein kinase regulate lymphatic contractility in rat thoracic duct. *Journal of Physiology*, **2013**, 591, 4549-65	3.9	31
100	An immunological fingerprint differentiates muscular lymphatics from arteries and veins. *Lymphatic Research and Biology*, **2013**, 11, 155-71	2.3	16
99	Maximum shortening velocity of lymphatic muscle approaches that of striated muscle. *American Journal of Physiology - Heart and Circulatory Physiology*, **2013**, 305, H1494-507	5.2	15
98	Lymphatic filariasis: perspectives on lymphatic remodeling and contractile dysfunction in filarial disease pathogenesis. *Microcirculation*, **2013**, 20, 349-64	2.9	37

97	HYPERGLYCEMIA INDUCES AN ANTI-ANGIOGENIC MILIEU IN FIRST TRIMESTER CYTOTROPHOBLAST CELL. *FASEB Journal*, **2013**, 27, 835.5	0.9	
96	Immune cell mediated regulation of lymphatic contractility during inflammation. *FASEB Journal*, **2013**, 27, 1131.17	0.9	
95	Contractile behavior of the uterine lymphatic vessels. *FASEB Journal*, **2013**, 27, 681.7	0.9	
94	LPS mediated decreases in immune cells recruitment on or near lymphatics impairs lymphatic contractility. *FASEB Journal*, **2013**, 27, 681.5	0.9	2
93	Effect of Cardiotonic Steroids on Monolayer Permeability and Junction Proteins in Lymphatic Endothelial Cells. *FASEB Journal*, **2013**, 27, lb709	0.9	
92	Pathogenesis of pre-eclampsia: marinobufagenin and angiogenic imbalance as biomarkers of the syndrome. *Translational Research*, **2012**, 160, 99-113	11	22
91	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, H809-24	5.2	48
90	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, H643-53	5.2	62
89	Intrinsic increase in lymphangion muscle contractility in response to elevated afterload. *American Journal of Physiology - Heart and Circulatory Physiology*, **2012**, 303, H795-808	5.2	79
88	Regional heterogeneity of length-tension relationships in rat lymph vessels. *Lymphatic Research and Biology*, **2012**, 10, 14-9	2.3	26
87	Passive pressure-diameter relationship and structural composition of rat mesenteric lymphangions. *Lymphatic Research and Biology*, **2012**, 10, 152-63	2.3	30
86	783 UPREGULATION OF (PRO)RENIN AND ITS RECEPTOR IN PREECLAMPSIA. *Journal of Hypertension*, **2012**, 30, e226	1.9	
85	994 MARINOBUFAGENIN CAUSES CEREBRAL VASCULAR LEAK SYNDROME IN PREECLAMPSIA. *Journal of Hypertension*, **2012**, 30, e288	1.9	
84	Adenovirus-mediated gene transfection in the isolated lymphatic vessels. *Methods in Molecular Biology*, **2012**, 843, 199-204	1.4	2
83	CARDIOTONIC STERIODS INDUCE STRESS SIGNALING IN PREECLAMSIA: A TRANSLATIONAL APPROACH WITH IN VIVO, IN VITRO, AND PATIENT STUDIES. *FASEB Journal*, **2012**, 26, 615.2	0.9	
82	EXOGENOUS NITRIC OXIDE (NO) MODULATES THE G-PROTEIN COUPLED SIGNALING PROTEINS IN CULTURED LYMPHATIC SMOOTH MUSCLE CELLS. *FASEB Journal*, **2012**, 26, lb668	0.9	
81	Ca2+-related proteins associated with intracellular stores in rat lymphatics. *FASEB Journal*, **2012**, 26, 677.5	0.9	
80	Lymphatic valve lock in response to modest gravitational loads: a contributing mechanism to peripheral lymphedema?. *FASEB Journal*, **2012**, 26, 677.2	0.9	

79	Increased Lymphatic Permeability During Shock and Burn Trauma Alters Antigen Presenting Cell Recruitment to Mesenteric Lymph Vessels. *FASEB Journal*, **2012**, 26, 677.11	0.9	
78	Role of cinobufotalin in the pathogenesis of preeclampsia: in vivo and in vitro studies. *FASEB Journal*, **2012**, 26, lb158	0.9	
77	Hypoxia and extracellular matrix proteins influence angiogenesis and lymphangiogenesis in mouse embryoid bodies. *Frontiers in Physiology*, **2011**, 2, 103	4.6	8
76	Substance P activates both contractile and inflammatory pathways in lymphatics through the neurokinin receptors NK1R and NK3R. *Microcirculation*, **2011**, 18, 24-35	2.9	32
75	Oxidized low-density lipoprotein inhibits nitric oxide-mediated coronary arteriolar dilation by up-regulating endothelial arginase I. *Microcirculation*, **2011**, 18, 36-45	2.9	34
74	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, 5415-29	3.9	26
73	Measuring contraction propagation and localizing pacemaker cells using high speed video microscopy. *Journal of Biomedical Optics*, **2011**, 16, 026016	3.5	14
72	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, H1897-906	5.2	70
71	Determinants of valve gating in collecting lymphatic vessels from rat mesentery. *American Journal of Physiology - Heart and Circulatory Physiology*, **2011**, 301, H48-60	5.2	110
70	CINOBUFATALIN IMPAIRS FIRST TRIMESTER CYTOTROPHOBLAST FUNCTIONS VIA CELL CYCLE ARREST AND APOPTOTIC SIGNALING. *FASEB Journal*, **2011**, 25, lb139	0.9	
69	Lymphatic system: a vital link between metabolic syndrome and inflammation. *Annals of the New York Academy of Sciences*, **2010**, 1207 Suppl 1, E94-102	6.5	45
68	Hydrodynamic regulation of lymphatic transport and the impact of aging. *Pathophysiology*, **2010**, 17, 277-87	1.8	63
67	Inflammation induces lymphangiogenesis through up-regulation of VEGFR-3 mediated by NF-kappaB and Prox1. *Blood*, **2010**, 115, 418-29	2.2	154
66	Mechanical and contractile characteristics of rat thoracic duct and cervical lymphatics. *FASEB Journal*, **2010**, 24, 972.9	0.9	
65	Flow-mediated NO production in the endothelium is dependent on eNOS activity and shear.. *FASEB Journal*, **2010**, 24, 972.3	0.9	
64	Substance P activates both inflammatory and contractile signaling pathways in the lymphatics through neurokinin receptors. *FASEB Journal*, **2010**, 24, 777.15	0.9	
63	Development of siRNA strategy to knockdown the regulatory contractile proteins in lymphatic muscle. *FASEB Journal*, **2010**, 24, lb678	0.9	
62	Inhibition of myosin light chain phosphorylation decreases rat mesenteric lymphatic contractile activity. *American Journal of Physiology - Heart and Circulatory Physiology*, **2009**, 297, H726-34	5.2	49

61	Venomotion modulates lymphatic pumping in the bat wing. *American Journal of Physiology - Heart and Circulatory Physiology*, **2009**, 296, H2015-21	5.2	6
60	Methods for lymphatic vessel culture and gene transfection. *Microcirculation*, **2009**, 16, 615-28	2.9	32
59	Contractile physiology of lymphatics. *Lymphatic Research and Biology*, **2009**, 7, 87-96	2.3	221
58	cGMP/PKG-mediated regulation of lymphatic contractility. *FASEB Journal*, **2009**, 23, 813.4	0.9	
57	CULTURE OF LYMPHATIC VESSELS AND DEVELOPMENT OF TRANSFECTION TECHNIQUES TO TARGET GENES INVOLVED IN REGULATION OF LYMPHATIC CONTRACTILITY. *FASEB Journal*, **2009**, 23, 764.3	0.9	
56	Low density lipoprotein modulates rat mesenteric lymphatic pumping. *FASEB Journal*, **2009**, 23, 764.1	0.9	0
55	Microlymphatic Biology **2008**, 125-158		5
54	Modulation of lymphatic muscle contractility by the neuropeptide substance P. *American Journal of Physiology - Heart and Circulatory Physiology*, **2008**, 295, H587-97	5.2	64
53	Calcium sensitivity and cooperativity of permeabilized rat mesenteric lymphatics. *American Journal of Physiology - Regulatory Integrative and Comparative Physiology*, **2008**, 294, R1524-32	3.2	35
52	Microlymphatic Biology **2008**, 125-158		4
51	Diminished mesenteric vaso- and venoconstriction and elevated plasma ANP and BNP with simulated microgravity. *Journal of Applied Physiology*, **2008**, 104, 1273-80	3.7	19
50	Molecular regulation of lymphatic contractility. *Annals of the New York Academy of Sciences*, **2008**, 1131, 89-99	6.5	91
49	Differential Muscle Cell Recruitments and Functions in Mouse Lymphatic Tissue Beds. *FASEB Journal*, **2008**, 22, 392.4	0.9	
48	Nitric Oxide Production By Contracting Rat Mesenteric Lymphatic Vessels Is Primarily Within Valvular Regions. *FASEB Journal*, **2008**, 22, 1141.6	0.9	
47	An automated method to control preload by compensation for stress relaxation in spontaneously contracting, isometric rat mesenteric lymphatics. *Microcirculation*, **2007**, 14, 603-12	2.9	10
46	Length-dependence of lymphatic phasic contractile activity under isometric and isobaric conditions. *Microcirculation*, **2007**, 14, 613-25	2.9	38
45	Image correlation algorithm for measuring lymphocyte velocity and diameter changes in contracting microlymphatics. *Annals of Biomedical Engineering*, **2007**, 35, 387-96	4.7	40
44	Length-tension relationships of small arteries, veins, and lymphatics from the rat mesenteric microcirculation. *American Journal of Physiology - Heart and Circulatory Physiology*, **2007**, 292, H1943-52	5.2	59

43	Intrinsic pump-conduit behavior of lymphangions. *American Journal of Physiology - Regulatory Integrative and Comparative Physiology*, **2007**, 292, R1510-8	3.2	83
42	Characteristics of the active lymph pump in bovine prenodal mesenteric lymphatics. *Lymphatic Research and Biology*, **2007**, 5, 71-9	2.3	14
41	Regulation of lymphatic contractility by myosin light chain phosphorylation. *FASEB Journal*, **2007**, 21, A485	0.9	
40	PRESSURE-VOLUME RELATIONSHIPS OF RAT MESENTERIC LYMPHATIC VESSELS IN RESPONSE TO CONTROLLED PRELOAD AND AFTERLOAD STEPS. *FASEB Journal*, **2007**, 21, A485	0.9	1
39	Imposed flow-dependent inhibition in rat thoracic duct is not dependent from on K channel blockade. *FASEB Journal*, **2007**, 21, A485	0.9	2
38	RATE-SENSITIVE CONTRACTILE RESPONSES OF RAT MESENTERIC LYMPHATICS TO CIRCUMFERENTIAL STRETCH. *FASEB Journal*, **2007**, 21, A485	0.9	3
37	Inhibition of active lymph pump by simulated microgravity in rats. *American Journal of Physiology - Heart and Circulatory Physiology*, **2006**, 290, H2295-308	5.2	40
36	Changes in end-to-end interactions of tropomyosin affect mouse cardiac muscle dynamics. *American Journal of Physiology - Heart and Circulatory Physiology*, **2006**, 291, H552-63	5.2	7
35	Signaling pathways mediating VEGF165-induced calcium transients and membrane depolarization in human endothelial cells. *FASEB Journal*, **2006**, 20, 991-3	0.9	31
34	Pulmonary air embolization inhibits lung lymph flow by increasing lymphatic outflow pressure. *Lymphatic Research and Biology*, **2006**, 4, 18-22	2.3	3
33	Automated measurement of diameter and contraction waves of cannulated lymphatic microvessels. *Lymphatic Research and Biology*, **2006**, 4, 3-10	2.3	29
32	Molecular profile and proliferative responses of rat lymphatic endothelial cells in culture. *Lymphatic Research and Biology*, **2006**, 4, 119-42	2.3	21
31	Contraction-initiated NO-dependent lymphatic relaxation: a self-regulatory mechanism in rat thoracic duct. *Journal of Physiology*, **2006**, 575, 821-32	3.9	134
30	Lymph flow, shear stress, and lymphocyte velocity in rat mesenteric prenodal lymphatics. *Microcirculation*, **2006**, 13, 597-610	2.9	189
29	Phasic contractions responsible for an NO-dependent relaxation in rat thoracic duct. *FASEB Journal*, **2006**, 20, A280	0.9	
28	Inhibition of myosin light chain phosphorylation decreases rat mesenteric lymphatic pump function. *FASEB Journal*, **2006**, 20, A279	0.9	
27	Shortening velocities of rat mesenteric lymphatics during spontaneous and agonist-induced contractions. *FASEB Journal*, **2006**, 20, A279	0.9	
26	Measuring microlymphatic flow using fast video microscopy. *Journal of Biomedical Optics*, **2005**, 10, 064016	3.5	53

25	Microlymphatic flow using fast video microscopy **2005**,		1
24	Lymphatic biology and the microcirculation: past, present and future. *Microcirculation*, **2005**, 12, 141-50	2.9	60
23	Microarray analysis of VEGF-C responsive genes in human lymphatic endothelial cells. *Lymphatic Research and Biology*, **2005**, 3, 183-207	2.3	18
22	Effects of substance P on mesenteric lymphatic contractility in the rat. *Lymphatic Research and Biology*, **2004**, 2, 2-10	2.3	36
21	Roles of phosphorylation of myosin binding protein-C and troponin I in mouse cardiac muscle twitch dynamics. *Journal of Physiology*, **2004**, 558, 927-41	3.9	64
20	Charged residue alterations in the inner-core domain and carboxy-terminus of alpha-tropomyosin differentially affect mouse cardiac muscle contractility. *Journal of Physiology*, **2004**, 561, 777-91	3.9	8
19	Reduced mitochondrial buffering of voltage-gated calcium influx in aged rat basal forebrain neurons. *Cell Calcium*, **2004**, 36, 61-75	4	36
18	Regional variations of contractile activity in isolated rat lymphatics. *Microcirculation*, **2004**, 11, 477-92	2.9	145
17	Lymphatic smooth muscle: the motor unit of lymph drainage. *International Journal of Biochemistry and Cell Biology*, **2004**, 36, 1147-53	5.6	131
16	Lymphatic muscle: a review of contractile function. *Lymphatic Research and Biology*, **2003**, 1, 147-58	2.3	62
15	Relationship between cardiac protein tyrosine phosphorylation and myofibrillogenesis during axolotl heart development. *Tissue and Cell*, **2003**, 35, 133-42	2.7	4
14	Molecular and functional analyses of the contractile apparatus in lymphatic muscle. *FASEB Journal*, **2003**, 17, 920-2	0.9	117
13	Development and characterization of endothelial cells from rat microlymphatics. *Lymphatic Research and Biology*, **2003**, 1, 101-19	2.3	28
12	Inhibition of the active lymph pump by flow in rat mesenteric lymphatics and thoracic duct. *Journal of Physiology*, **2002**, 540, 1023-37	3.9	196
11	Inhibition of the active lymph pump by flow in rat mesenteric lymphatics and thoracic duct **2002**, 540, 1023		2
10	Inhibition of the active lymph pump by flow in rat mesenteric lymphatics and thoracic duct **2002**, 540, 1023		9
9	Protein transfection of intact microvessels specifically modulates vasoreactivity and permeability. *Journal of Vascular Research*, **2001**, 38, 444-52	1.9	22
8	Role of phospholipase C, protein kinase C, and calcium in VEGF-induced venular hyperpermeability. *American Journal of Physiology - Heart and Circulatory Physiology*, **1999**, 276, H535-42	5.2	73

7	Lymphatic microcirculation. *Microcirculation*, **1996**, 3, 241-3	2.9	23
6	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, 345-54	3.3	8
5	Multiple Ionic Mechanisms Activated by Bradykinin in Coronary Venular Endothelial Cells. *Endothelium: Journal of Endothelial Cell Research*, **1996**, 4, 29-40		2
4	Thermal effects of MR imaging: worst-case studies on sheep. *American Journal of Roentgenology*, **1990**, 155, 1105-10	5.4	29
3	Physiology and pathobiology of the microcirculation. *American Journal of Otolaryngology - Head and Neck Medicine and Surgery*, **1988**, 9, 264-77	2.8	11
2	Construction of an optical bench microscope for intravital studies. *Microvascular Research*, **1987**, 33, 433-57		1
1	Analysis of picogram quantities of protein in subnanoliter-size samples. *Analytical Biochemistry*, **1984**, 142, 182-8	3.1	6