

# Steven T Proulx

## List of Publications by Year in descending order

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Version: 2024-02-01

70  
papers

5,631  
citations

101543

36  
h-index

98798

67  
g-index

71  
all docs

71  
docs citations

71  
times ranked

6986  
citing authors

#	ARTICLE	IF	CITATIONS
1	Mechanosensitive ACKR4 scavenges CCR7 chemokines to facilitate T cell de-adhesion and passive transport by flow in inflamed afferent lymphatics. <i>Cell Reports</i> , 2022, 38, 110334.	6.4	10
2	Magnetic resonance imaging of cerebrospinal fluid outflow after low-rate lateral ventricle infusion in mice. <i>JCI Insight</i> , 2022, 7, .	5.0	21
3	Central nervous system zoning: How brain barriers establish subdivisions for CNS immune privilege and immune surveillance. <i>Journal of Internal Medicine</i> , 2022, 292, 47-67.	6.0	21
4	Imaging technology of the lymphatic system. <i>Advanced Drug Delivery Reviews</i> , 2021, 170, 294-311.	13.7	64
5	Cerebrospinal fluid outflow: a review of the historical and contemporary evidence for arachnoid villi, perineural routes, and dural lymphatics. <i>Cellular and Molecular Life Sciences</i> , 2021, 78, 2429-2457.	5.4	180
6	Differential effects of anaesthesia on the contractility of lymphatic vessels <i>in vivo</i> : authors' reply. <i>Journal of Physiology</i> , 2020, 598, 2037-2037.	2.9	0
7	Lymphatic MAFB regulates vascular patterning during developmental and pathological lymphangiogenesis. <i>Angiogenesis</i> , 2020, 23, 411-423.	7.2	32
8	Opposing roles of endothelial and leukocyte-expressed IL-7R $\alpha$ in the regulation of psoriasis-like skin inflammation. <i>Scientific Reports</i> , 2019, 9, 11714.	3.3	9
9	Transcriptional profiling of breast cancer-associated lymphatic vessels reveals VCAM1 as regulator of lymphatic invasion and permeability. <i>International Journal of Cancer</i> , 2019, 145, 2804-2815.	5.1	22
10	An important role of cutaneous lymphatic vessels in coordinating and promoting anagen hair follicle growth. <i>PLoS ONE</i> , 2019, 14, e0220341.	2.5	22
11	Lymphatic outflow of cerebrospinal fluid is reduced in glioma. <i>Scientific Reports</i> , 2019, 9, 14815.	3.3	64
12	Clearance of cerebrospinal fluid from the sacral spine through lymphatic vessels. <i>Journal of Experimental Medicine</i> , 2019, 216, 2492-2502.	8.5	80
13	Therapeutic Regeneration of Lymphatic and Immune Cell Functions upon Lympho-organoid Transplantation. <i>Stem Cell Reports</i> , 2019, 12, 1260-1268.	4.8	20
14	A Distinct Role of the Autonomic Nervous System in Modulating the Function of Lymphatic Vessels under Physiological and Tumor-Draining Conditions. <i>Cell Reports</i> , 2019, 27, 3305-3314.e13.	6.4	38
15	Differential effects of anaesthesia on the contractility of lymphatic vessels <i>in vivo</i> . <i>Journal of Physiology</i> , 2019, 597, 2841-2852.	2.9	26
16	Rapid lymphatic efflux limits cerebrospinal fluid flow to the brain. <i>Acta Neuropathologica</i> , 2019, 137, 151-165.	7.7	145
17	Minimally invasive method for the point-of-care quantification of lymphatic vessel function. <i>JCI Insight</i> , 2019, 4, .	5.0	19
18	Visualization and Measurement of Lymphatic Function In Vivo. <i>Methods in Molecular Biology</i> , 2018, 1846, 197-211.	0.9	6

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19	Unexpected contribution of lymphatic vessels to promotion of distant metastatic tumor spread. Science Advances, 2018, 4, eaat4758.	10.3	67
20	Antibody-mediated delivery of VEGF-C potently reduces chronic skin inflammation. JCI Insight, 2018, 3, .	5.0	34
21	T Cell Migration from Inflamed Skin to Draining Lymph Nodes Requires Intralymphatic Crawling Supported by ICAM-1/LFA-1 Interactions. Cell Reports, 2017, 18, 857-865.	6.4	96
22	High-Fat Diet in the Absence of Obesity Does Not Aggravate Surgically Induced Lymphoedema in Mice. European Surgical Research, 2017, 58, 180-192.	1.3	11
23	An Important Role of VEGF-C in Promoting Lymphedema Development. Journal of Investigative Dermatology, 2017, 137, 1995-2004.	0.7	52
24	Outflow of cerebrospinal fluid is predominantly through lymphatic vessels and is reduced in aged mice. Nature Communications, 2017, 8, 1434.	12.8	458
25	Postnatal Deletion of Podoplanin in Lymphatic Endothelium Results in Blood Filling of the Lymphatic System and Impairs Dendritic Cell Migration to Lymph Nodes. Arteriosclerosis, Thrombosis, and Vascular Biology, 2017, 37, 108-117.	2.4	54
26	Quantitative measurement of lymphatic function in mice by noninvasive near-infrared imaging of a peripheral vein. JCI Insight, 2017, 2, e90861.	5.0	28
27	New use of an old drug: inhibition of breast cancer stem cells by benztropine mesylate. Oncotarget, 2017, 8, 1007-1022.	1.8	22
28	<i>In vitro</i> fabrication of autologous living tissue-engineered vascular grafts based on prenatally harvested ovine amniotic fluid-derived stem cells. Journal of Tissue Engineering and Regenerative Medicine, 2016, 10, 52-70.	2.7	26
29	In vivo visualization and quantification of collecting lymphatic vessel contractility using near-infrared imaging. Scientific Reports, 2016, 6, 22930.	3.3	33
30	Regulation of lymphangiogenesis in the diaphragm by macrophages and VEGFR-3 signaling. Angiogenesis, 2016, 19, 513-524.	7.2	29
31	Prominent Lymphatic Vessel Hyperplasia with Progressive Dysfunction and Distinct Immune Cell Infiltration in Lymphedema. American Journal of Pathology, 2016, 186, 2193-2203.	3.8	65
32	Microneedles for the Noninvasive Structural and Functional Assessment of Dermal Lymphatic Vessels. Small, 2016, 12, 1053-1061.	10.0	30
33	Findings questioning the involvement of Sigma-1 receptor in the uptake of anisamide-decorated particles. Journal of Controlled Release, 2016, 224, 229-238.	9.9	24
34	Endothelial cell-derived semaphorin 3A inhibits filopodia formation by blood vascular tip cells. Development (Cambridge), 2016, 143, 589-594.	2.5	39
35	Restoration of lymphatic function rescues obesity in Prox1-haploinsufficient mice. JCI Insight, 2016, 1, .	5.0	110
36	Regulatory T cell transfer ameliorates lymphedema and promotes lymphatic vessel function. JCI Insight, 2016, 1, e89081.	5.0	70

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37	Lymphatic endothelial cells attenuate inflammation via suppression of dendritic cell maturation. <i>Oncotarget</i> , 2016, 7, 39421-39435.	1.8	60
38	Endothelial cell-derived semaphorin 3A inhibits filopodia formation by blood vascular tip cells. <i>Journal of Cell Science</i> , 2016, 129, e1.1-e1.1.	2.0	0
39	Drug Pharmacokinetics Determined by Real-Time Analysis of Mouse Breath. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 7815-7818.	13.8	55
40	A Transgenic Prox1-Cre-tdTomato Reporter Mouse for Lymphatic Vessel Research. <i>PLoS ONE</i> , 2015, 10, e0122976.	2.5	41
41	Intravital and Whole-Organ Imaging Reveals Capture of Melanoma-Derived Antigen by Lymph Node Subcapsular Macrophages Leading to Widespread Deposition on Follicular Dendritic Cells. <i>Frontiers in Immunology</i> , 2015, 6, 114.	4.8	36
42	A dural lymphatic vascular system that drains brain interstitial fluid and macromolecules. <i>Journal of Experimental Medicine</i> , 2015, 212, 991-999.	8.5	1,543
43	Decline of lymphatic vessel density and function in murine skin during aging. <i>Angiogenesis</i> , 2015, 18, 489-498.	7.2	63
44	Chronic High-Fat Diet Impairs Collecting Lymphatic Vessel Function in Mice. <i>PLoS ONE</i> , 2014, 9, e94713.	2.5	113
45	Living-Engineered Valves for Transcatheter Venous Valve Repair. <i>Tissue Engineering - Part C: Methods</i> , 2014, 20, 451-463.	2.1	14
46	Non-invasive dynamic near-infrared imaging and quantification of vascular leakage in vivo. <i>Angiogenesis</i> , 2013, 16, 525-540.	7.2	32
47	Use of a PEG-conjugated bright near-infrared dye for functional imaging of rerouting of tumor lymphatic drainage after sentinel lymph node metastasis. <i>Biomaterials</i> , 2013, 34, 5128-5137.	11.4	134
48	Expansion of the lymphatic vasculature in cancer and inflammation: New opportunities for in vivo imaging and drug delivery. <i>Journal of Controlled Release</i> , 2013, 172, 550-557.	9.9	52
49	VEGF-C and VEGF-D Blockade Inhibits Inflammatory Skin Carcinogenesis. <i>Cancer Research</i> , 2013, 73, 4212-4221.	0.9	72
50	Molecular mechanisms and imaging of lymphatic metastasis. <i>Experimental Cell Research</i> , 2013, 319, 1611-1617.	2.6	20
51	Dynamics of lymphatic regeneration and flow patterns after lymph node dissection. <i>Breast Cancer Research and Treatment</i> , 2013, 139, 81-86.	2.5	71
52	Interleukin-7 is produced by afferent lymphatic vessels and supports lymphatic drainage. <i>Blood</i> , 2013, 122, 2271-2281.	1.4	58
53	Watching lymphatic vessels grow by making them glow. <i>Cell Research</i> , 2012, 22, 12-13.	12.0	4
54	Genetic Ablation of SOX18 Function Suppresses Tumor Lymphangiogenesis and Metastasis of Melanoma in Mice. <i>Cancer Research</i> , 2012, 72, 3105-3114.	0.9	56

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55	Thymus cell antigen 1 (Thy1, CD90) is expressed by lymphatic vessels and mediates cell adhesion to lymphatic endothelium. <i>Experimental Cell Research</i> , 2010, 316, 2982-2992.	2.6	64
56	Chronic axial compression of the mouse tail segment induces MRI bone marrow edema changes that correlate with increased marrow vasculature and cellularity. <i>Journal of Orthopaedic Research</i> , 2010, 28, 1220-1228.	2.3	12
57	Effects of antiresorptive agents on osteomyelitis. <i>Annals of the New York Academy of Sciences</i> , 2010, 1192, 84-94.	3.8	31
58	Stimulation of lymphangiogenesis via VEGFR-3 inhibits chronic skin inflammation. <i>Journal of Experimental Medicine</i> , 2010, 207, 2255-2269.	8.5	208
59	<i>In vivo</i> Imaging of Inflammation- and Tumor-Induced Lymph Node Lymphangiogenesis by Immuno-Positron Emission Tomography. <i>Cancer Research</i> , 2010, 70, 8842-8851.	0.9	73
60	Quantitative Imaging of Lymphatic Function with Liposomal Indocyanine Green. <i>Cancer Research</i> , 2010, 70, 7053-7062.	0.9	186
61	Expanded CD23+/CD21hi B Cells in Inflamed Lymph Nodes Are Associated with the Onset of Inflammatory-Erosive Arthritis in TNF-Transgenic Mice and Are Targets of Anti-CD20 Therapy. <i>Journal of Immunology</i> , 2010, 184, 6142-6150.	0.8	73
62	Stimulation of lymphangiogenesis via VEGFR-3 inhibits chronic skin inflammation. <i>Journal of Cell Biology</i> , 2010, 190, i14-i14.	5.2	0
63	Translational Perspectives on Psoriatic Arthritis. <i>Journal of rheumatology Supplement, The</i> , 2009, 83, 30-34.	2.2	9
64	Inhibition of lymphangiogenesis and lymphatic drainage via vascular endothelial growth factor receptor 3 blockade increases the severity of inflammation in a mouse model of chronic inflammatory arthritis. <i>Arthritis and Rheumatism</i> , 2009, 60, 2666-2676.	6.7	155
65	The Role of Bone Marrow Edema and Lymphangiogenesis in Inflammatory-Erosive Arthritis. <i>Advances in Experimental Medicine and Biology</i> , 2009, 658, 1-10.	1.6	7
66	Differential effects of biologic versus bisphosphonate inhibition of wear debris-induced osteolysis assessed by longitudinal micro-CT. <i>Journal of Orthopaedic Research</i> , 2008, 26, 1340-1346.	2.3	47
67	Elucidating bone marrow edema and myelopoiesis in murine arthritis using contrast-enhanced magnetic resonance imaging. <i>Arthritis and Rheumatism</i> , 2008, 58, 2019-2029.	6.7	45
68	Increased lymphangiogenesis in joints of mice with inflammatory arthritis. <i>Arthritis Research and Therapy</i> , 2007, 9, R118.	3.5	134
69	Longitudinal assessment of synovial, lymph node, and bone volumes in inflammatory arthritis in mice by in vivo magnetic resonance imaging and microfocal computed tomography. <i>Arthritis and Rheumatism</i> , 2007, 56, 4024-4037.	6.7	79
70	MRI and Quantification of Draining Lymph Node Function in Inflammatory Arthritis. <i>Annals of the New York Academy of Sciences</i> , 2007, 1117, 106-123.	3.8	57