

Michael Detmar

List of Publications by Year in descending order

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Version: 2024-02-01

117
papers

18,887
citations

26567

56
h-index

21474

114
g-index

119
all docs

119
docs citations

119
times ranked

23088
citing authors

#	ARTICLE	IF	CITATIONS
1	A promoter-level mammalian expression atlas. <i>Nature</i> , 2014, 507, 462-470.	13.7	1,838
2	Induction of tumor lymphangiogenesis by VEGF-C promotes breast cancer metastasis. <i>Nature Medicine</i> , 2001, 7, 192-198.	15.2	1,555
3	A dural lymphatic vascular system that drains brain interstitial fluid and macromolecules. <i>Journal of Experimental Medicine</i> , 2015, 212, 991-999.	4.2	1,543
4	An essential role for Prox1 in the induction of the lymphatic endothelial cell phenotype. <i>EMBO Journal</i> , 2002, 21, 1505-1513.	3.5	783
5	VEGF-A induces tumor and sentinel lymph node lymphangiogenesis and promotes lymphatic metastasis. <i>Journal of Experimental Medicine</i> , 2005, 201, 1089-1099.	4.2	630
6	Up-Regulation of the Lymphatic Marker Podoplanin, a Mucin-Type Transmembrane Glycoprotein, in Human Squamous Cell Carcinomas and Germ Cell Tumors. <i>American Journal of Pathology</i> , 2005, 166, 913-921.	1.9	552
7	TScratch: a novel and simple software tool for automated analysis of monolayer wound healing assays. <i>BioTechniques</i> , 2009, 46, 265-274.	0.8	532
8	Transcribed enhancers lead waves of coordinated transcription in transitioning mammalian cells. <i>Science</i> , 2015, 347, 1010-1014.	6.0	517
9	Control of hair growth and follicle size by VEGF-mediated angiogenesis. <i>Journal of Clinical Investigation</i> , 2001, 107, 409-417.	3.9	516
10	VEGF- α -induced lymphangiogenesis in sentinel lymph nodes promotes tumor metastasis to distant sites. <i>Blood</i> , 2007, 109, 1010-1017.	0.6	473
11	Prox1 is a master control gene in the program specifying lymphatic endothelial cell fate. <i>Developmental Dynamics</i> , 2002, 225, 351-357.	0.8	469
12	Tumor Lymphangiogenesis. <i>American Journal of Pathology</i> , 2003, 162, 1951-1960.	1.9	463
13	Outflow of cerebrospinal fluid is predominantly through lymphatic vessels and is reduced in aged mice. <i>Nature Communications</i> , 2017, 8, 1434.	5.8	458
14	An integrated expression atlas of miRNAs and their promoters in human and mouse. <i>Nature Biotechnology</i> , 2017, 35, 872-878.	9.4	456
15	Mechanisms of lymphatic metastasis. <i>Journal of Clinical Investigation</i> , 2014, 124, 922-928.	3.9	429
16	Identification of Vascular Lineage-Specific Genes by Transcriptional Profiling of Isolated Blood Vascular and Lymphatic Endothelial Cells. <i>American Journal of Pathology</i> , 2003, 162, 575-586.	1.9	409
17	Hepatocyte growth factor promotes lymphatic vessel formation and function. <i>EMBO Journal</i> , 2005, 24, 2885-2895.	3.5	290
18	Induction of cutaneous delayed-type hypersensitivity reactions in VEGF-A transgenic mice results in chronic skin inflammation associated with persistent lymphatic hyperplasia. <i>Blood</i> , 2004, 104, 1048-1057.	0.6	284

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19	Overexpression of Thrombospondin-1 Decreases Angiogenesis and Inhibits the Growth of Human Cutaneous Squamous Cell Carcinomas. <i>American Journal of Pathology</i> , 1999, 155, 441-452.	1.9	273
20	The Lymphatic System in Health and Disease. <i>Lymphatic Research and Biology</i> , 2008, 6, 109-122.	0.5	242
21	New Insights into the Molecular Control of the Lymphatic Vascular System and its Role in Disease. <i>Journal of Investigative Dermatology</i> , 2006, 126, 2167-2177.	0.3	213
22	An important role of lymphatic vessel activation in limiting acute inflammation. <i>Blood</i> , 2011, 117, 4667-4678.	0.6	212
23	Tumor progression: the effects of thrombospondin-1 and -2. <i>International Journal of Biochemistry and Cell Biology</i> , 2004, 36, 1038-1045.	1.2	211
24	Structure, Function, and Molecular Control of the Skin Lymphatic System. <i>Journal of Investigative Dermatology Symposium Proceedings</i> , 2000, 5, 14-19.	0.8	209
25	Stimulation of lymphangiogenesis via VEGFR-3 inhibits chronic skin inflammation. <i>Journal of Experimental Medicine</i> , 2010, 207, 2255-2269.	4.2	208
26	FANTOM5 CAGE profiles of human and mouse samples. <i>Scientific Data</i> , 2017, 4, 170112.	2.4	195
27	Quantitative Imaging of Lymphatic Function with Liposomal Indocyanine Green. <i>Cancer Research</i> , 2010, 70, 7053-7062.	0.4	186
28	Prox1 Promotes Lineage-specific Expression of Fibroblast Growth Factor (FGF) Receptor-3 in Lymphatic Endothelium: A Role for FGF Signaling in Lymphangiogenesis. <i>Molecular Biology of the Cell</i> , 2006, 17, 576-584.	0.9	175
29	VEGF-A produced by chronically inflamed tissue induces lymphangiogenesis in draining lymph nodes. <i>Blood</i> , 2007, 110, 3158-3167.	0.6	161
30	Inflammation and Lymphatic Function. <i>Frontiers in Immunology</i> , 2019, 10, 308.	2.2	161
31	The role of VEGF and thrombospondins in skin angiogenesis. <i>Journal of Dermatological Science</i> , 2000, 24, S78-S84.	1.0	153
32	Endocan Is Upregulated on Tumor Vessels in Invasive Bladder Cancer Where It Mediates VEGF-Induced Angiogenesis. <i>Cancer Research</i> , 2013, 73, 1097-1106.	0.4	150
33	Rapid lymphatic efflux limits cerebrospinal fluid flow to the brain. <i>Acta Neuropathologica</i> , 2019, 137, 151-165.	3.9	145
34	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.	5.7	134
35	Transcriptional profiling of VEGF-A and VEGF-C target genes in lymphatic endothelium reveals endothelial-specific molecule-1 as a novel mediator of lymphangiogenesis. <i>Blood</i> , 2008, 112, 2318-2326.	0.6	123
36	The Cutaneous Vascular System in Chronic Skin Inflammation. <i>Journal of Investigative Dermatology Symposium Proceedings</i> , 2011, 15, 24-32.	0.8	119

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37	Prox1, master regulator of the lymphatic vasculature phenotype. <i>Cell and Tissue Research</i> , 2003, 314, 85-92.	1.5	117
38	Tumor Lymphangiogenesis and Metastasis to Lymph Nodes Induced by Cancer Cell Expression of Podoplanin. <i>American Journal of Pathology</i> , 2010, 177, 1004-1016.	1.9	117
39	Tumor lymphangiogenesis and new drug development. <i>Advanced Drug Delivery Reviews</i> , 2016, 99, 148-160.	6.6	117
40	Chronic High-Fat Diet Impairs Collecting Lymphatic Vessel Function in Mice. <i>PLoS ONE</i> , 2014, 9, e94713.	1.1	113
41	Tumor-Associated Lymphatic Vessels Upregulate PDL1 to Inhibit T-Cell Activation. <i>Frontiers in Immunology</i> , 2017, 8, 66.	2.2	102
42	T Cell Migration from Inflamed Skin to Draining Lymph Nodes Requires Intralymphatic Crawling Supported by ICAM-1/LFA-1 Interactions. <i>Cell Reports</i> , 2017, 18, 857-865.	2.9	96
43	Galectin-8 interacts with podoplanin and modulates lymphatic endothelial cell functions. <i>Experimental Cell Research</i> , 2009, 315, 1715-1723.	1.2	90
44	Lymphatic vessels: new targets for the treatment of inflammatory diseases. <i>Angiogenesis</i> , 2014, 17, 359-371.	3.7	88
45	Single-cell mapping reveals new markers and functions of lymphatic endothelial cells in lymph nodes. <i>PLoS Biology</i> , 2020, 18, e3000704.	2.6	88
46	Lymphatic invasion in cutaneous melanoma is associated with sentinel lymph node metastasis. <i>Journal of Cutaneous Pathology</i> , 2009, 36, 772-780.	0.7	79
47	VEGF-C and VEGF-D Blockade Inhibits Inflammatory Skin Carcinogenesis. <i>Cancer Research</i> , 2013, 73, 4212-4221.	0.4	72
48	Dynamics of lymphatic regeneration and flow patterns after lymph node dissection. <i>Breast Cancer Research and Treatment</i> , 2013, 139, 81-86.	1.1	71
49	Blockade of VEGF Receptor-3 Aggravates Inflammatory Bowel Disease and Lymphatic Vessel Enlargement. <i>Inflammatory Bowel Diseases</i> , 2013, 19, 1.	0.9	68
50	Multiple roles of lymphatic vessels in tumor progression. <i>Current Opinion in Immunology</i> , 2018, 53, 7-12.	2.4	68
51	Unexpected contribution of lymphatic vessels to promotion of distant metastatic tumor spread. <i>Science Advances</i> , 2018, 4, eaat4758.	4.7	67
52	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.	1.2	64
53	Phenotype-based high-content chemical library screening identifies statins as inhibitors of in vivo lymphangiogenesis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, E2665-74.	3.3	64
54	Lymphatic outflow of cerebrospinal fluid is reduced in glioma. <i>Scientific Reports</i> , 2019, 9, 14815.	1.6	64

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55	Decline of lymphatic vessel density and function in murine skin during aging. <i>Angiogenesis</i> , 2015, 18, 489-498.	3.7	63
56	An Important Role of the SDF-1/CXCR4 Axis in Chronic Skin Inflammation. <i>PLoS ONE</i> , 2014, 9, e93665.	1.1	61
57	Mechanisms of Tumor-Induced Lymphovascular Niche Formation in Draining Lymph Nodes. <i>Cell Reports</i> , 2018, 25, 3554-3563.e4.	2.9	60
58	Lymphatic endothelial cells attenuate inflammation via suppression of dendritic cell maturation. <i>Oncotarget</i> , 2016, 7, 39421-39435.	0.8	60
59	Systemic inhibition of tumor growth and angiogenesis by thrombospondin-2 using cell-based antiangiogenic gene therapy. <i>Cancer Research</i> , 2002, 62, 2004-12.	0.4	58
60	Lymphatic exosomes promote dendritic cell migration along guidance cues. <i>Journal of Cell Biology</i> , 2018, 217, 2205-2221.	2.3	57
61	Expression of the Type-1 Repeats of Thrombospondin-1 Inhibits Tumor Growth Through Activation of Transforming Growth Factor- β 2. <i>American Journal of Pathology</i> , 2004, 165, 541-552.	1.9	56
62	Drug Pharmacokinetics Determined by Real-Time Analysis of Mouse Breath. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 7815-7818.	7.2	55
63	AutoTube: a novel software for the automated morphometric analysis of vascular networks in tissues. <i>Angiogenesis</i> , 2019, 22, 223-236.	3.7	55
64	Postnatal Deletion of Podoplanin in Lymphatic Endothelium Results in Blood Filling of the Lymphatic System and Impairs Dendritic Cell Migration to Lymph Nodes. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2017, 37, 108-117.	1.1	54
65	Activation of the VEGFC/VEGFR3 Pathway Induces Tumor Immune Escape in Colorectal Cancer. <i>Cancer Research</i> , 2019, 79, 4196-4210.	0.4	53
66	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.	4.8	52
67	Podoplanin-Fc reduces lymphatic vessel formation in vitro and in vivo and causes disseminated intravascular coagulation when transgenically expressed in the skin. <i>Blood</i> , 2010, 116, 4376-4384.	0.6	50
68	Thrombospondin-1 Plays a Critical Role in the Induction of Hair Follicle Involution and Vascular Regression During the Catagen Phase. <i>Journal of Investigative Dermatology</i> , 2003, 120, 14-19.	0.3	47
69	A Rapid Fluorometric Assay for the Determination of Keratinocyte Proliferation In Vitro. <i>Journal of Investigative Dermatology</i> , 1989, 93, 532-534.	0.3	46
70	An N-Terminal 80 kDa Recombinant Fragment of Human Thrombospondin-2 Inhibits Vascular Endothelial Growth Factor Induced Endothelial Cell Migration In Vitro and Tumor Growth and Angiogenesis In Vivo. <i>Journal of Investigative Dermatology</i> , 2003, 121, 1536-1543.	0.3	46
71	An Important Role of Blood and Lymphatic Vessels in Inflammation and Allergy. <i>Journal of Allergy</i> , 2013, 2013, 1-9.	0.7	46
72	DeepCAGE Transcriptomics Reveal an Important Role of the Transcription Factor MAFB in the Lymphatic Endothelium. <i>Cell Reports</i> , 2015, 13, 1493-1504.	2.9	46

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73	Induced lymphatic sinus hyperplasia in sentinel lymph nodes by VEGF-C as the earliest premetastatic indicator. <i>International Journal of Oncology</i> , 2012, 41, 2073-2078.	1.4	41
74	Lymphatic PD-L1 Expression Restricts Tumor-Specific CD8+ T-cell Responses. <i>Cancer Research</i> , 2021, 81, 4133-4144.	0.4	39
75	Effect of Recombinant Tumor Necrosis Factor-Alpha on Cultured Microvascular Endothelial Cells Derived From Human Dermis. <i>Journal of Investigative Dermatology</i> , 1990, 95, S219-S222.	0.3	38
76	Beyond PROX1: transcriptional, epigenetic, and noncoding RNA regulation of lymphatic identity and function. <i>Developmental Cell</i> , 2021, 56, 406-426.	3.1	38
77	Lymphatic vessels in cancer. <i>Physiological Reviews</i> , 2022, 102, 1837-1879.	13.1	38
78	Upregulation of VCAM-1 in lymphatic collectors supports dendritic cell entry and rapid migration to lymph nodes in inflammation. <i>Journal of Experimental Medicine</i> , 2021, 218, .	4.2	37
79	Itch suppression in mice and dogs by modulation of spinal $\hat{\pm}2$ and $\hat{\pm}3$ GABAA receptors. <i>Nature Communications</i> , 2018, 9, 3230.	5.8	34
80	Antibody-mediated delivery of VEGF-C potently reduces chronic skin inflammation. <i>JCI Insight</i> , 2018, 3, .	2.3	34
81	In vivo visualization and quantification of collecting lymphatic vessel contractility using near-infrared imaging. <i>Scientific Reports</i> , 2016, 6, 22930.	1.6	33
82	Inflammation-Induced Lymph Node Lymphangiogenesis Is Reversible. <i>American Journal of Pathology</i> , 2012, 180, 874-879.	1.9	32
83	Lymphatic MAFB regulates vascular patterning during developmental and pathological lymphangiogenesis. <i>Angiogenesis</i> , 2020, 23, 411-423.	3.7	32
84	Microneedles for the Noninvasive Structural and Functional Assessment of Dermal Lymphatic Vessels. <i>Small</i> , 2016, 12, 1053-1061.	5.2	30
85	A Human mAb Specific to Oncofetal Fibronectin Selectively Targets Chronic Skin Inflammation In Vivo. <i>Journal of Investigative Dermatology</i> , 2007, 127, 881-886.	0.3	29
86	Quantitative measurement of lymphatic function in mice by noninvasive near-infrared imaging of a peripheral vein. <i>JCI Insight</i> , 2017, 2, e90861.	2.3	28
87	Differential effects of anaesthesia on the contractility of lymphatic vessels <i><i>in vivo</i></i> . <i>Journal of Physiology</i> , 2019, 597, 2841-2852.	1.3	26
88	CD169+ lymph node macrophages have protective functions in mouse breast cancer metastasis. <i>Cell Reports</i> , 2021, 35, 108993.	2.9	26
89	Distinct transcriptional responses of lymphatic endothelial cells to VEGFR-3 and VEGFR-2 stimulation. <i>Scientific Data</i> , 2017, 4, 170106.	2.4	25
90	Findings questioning the involvement of Sigma-1 receptor in the uptake of anisamide-decorated particles. <i>Journal of Controlled Release</i> , 2016, 224, 229-238.	4.8	24

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91	High expression of insulin receptor on tumour-associated blood vessels in invasive bladder cancer predicts poor overall and progression-free survival. <i>Journal of Pathology</i> , 2017, 242, 193-205.	2.1	24
92	Alternative transcription of a shorter, non-anti-angiogenic thrombospondin-2 variant in cancer-associated blood vessels. <i>Oncogene</i> , 2018, 37, 2573-2585.	2.6	22
93	Transcriptional profiling of breast cancer-associated lymphatic vessels reveals VCAM-1 as regulator of lymphatic invasion and permeability. <i>International Journal of Cancer</i> , 2019, 145, 2804-2815.	2.3	22
94	An important role of cutaneous lymphatic vessels in coordinating and promoting anagen hair follicle growth. <i>PLoS ONE</i> , 2019, 14, e0220341.	1.1	22
95	Epigenetic regulation of the lineage specificity of primary human dermal lymphatic and blood vascular endothelial cells. <i>Angiogenesis</i> , 2021, 24, 67-82.	3.7	20
96	Single-Cell Transcriptional Heterogeneity of Lymphatic Endothelial Cells in Normal and Inflamed Murine Lymph Nodes. <i>Cells</i> , 2021, 10, 1371.	1.8	19
97	Minimally invasive method for the point-of-care quantification of lymphatic vessel function. <i>JCI Insight</i> , 2019, 4, .	2.3	19
98	LETR1 is a lymphatic endothelial-specific lncRNA governing cell proliferation and migration through KLF4 and SEMA3C. <i>Nature Communications</i> , 2021, 12, 925.	5.8	18
99	Thrombospondin-2 overexpression in the skin of transgenic mice reduces the susceptibility to chemically induced multistep skin carcinogenesis. <i>Journal of Dermatological Science</i> , 2014, 74, 106-115.	1.0	15
100	DeepCAGE transcriptomics identify HOXD10 as transcription factor regulating lymphatic endothelial responses to VEGF-C. <i>Journal of Cell Science</i> , 2016, 129, 2573-85.	1.2	15
101	Rational design of a fluorescent microneedle tattoo for minimally invasive monitoring of lymphatic function. <i>Journal of Controlled Release</i> , 2020, 327, 350-359.	4.8	15
102	Lymphatics in nanophysiology. <i>Advanced Drug Delivery Reviews</i> , 2014, 74, 12-18.	6.6	14
103	Antibody-Mediated Delivery of VEGFC Ameliorates Experimental Chronic Colitis. <i>ACS Pharmacology and Translational Science</i> , 2019, 2, 342-352.	2.5	13
104	The Role of Neuropilin-1/Semaphorin 3A Signaling in Lymphatic Vessel Development and Maturation. <i>Advances in Anatomy, Embryology and Cell Biology</i> , 2014, 214, 143-152.	1.0	13
105	Discovery of widespread transcription initiation at microsatellites predictable by sequence-based deep neural network. <i>Nature Communications</i> , 2021, 12, 3297.	5.8	11
106	An important role of podoplanin in hair follicle growth. <i>PLoS ONE</i> , 2019, 14, e0219938.	1.1	9
107	Sostdc1 Secreted from Cutaneous Lymphatic Vessels Acts as a Paracrine Factor for Hair Follicle Growth. <i>Current Issues in Molecular Biology</i> , 2022, 44, 2167-2174.	1.0	9
108	Characterization of Tumor Blood Vasculature Expression of Human Invasive Bladder Cancer by Laser Capture Microdissection and Transcriptional Profiling. <i>American Journal of Pathology</i> , 2020, 190, 1960-1970.	1.9	8

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109	Visualization and Measurement of Lymphatic Function In Vivo. <i>Methods in Molecular Biology</i> , 2018, 1846, 197-211.	0.4	6
110	Keratinocyte-Expressed Podoplanin is Dispensable for Multi-Step Skin Carcinogenesis. <i>Cells</i> , 2020, 9, 1542.	1.8	6
111	Sialoglycans on lymphatic endothelial cells augment interactions with Siglec-1 (CD169) of lymph node macrophages. <i>FASEB Journal</i> , 2021, 35, e22017.	0.2	6
112	Novel Blood Vascular Endothelial Subtype-Specific Markers in Human Skin Unearthed by Single-Cell Transcriptomic Profiling. <i>Cells</i> , 2022, 11, 1111.	1.8	6
113	Mediators of Capillary-to-Venule Conversion in the Chronic Inflammatory Skin Disease Psoriasis. <i>Journal of Investigative Dermatology</i> , 2022, 142, 3313-3326.e13.	0.3	6
114	Development and Clinical Validation of the LymphMonitor Technology to Quantitatively Assess Lymphatic Function. <i>Diagnostics</i> , 2021, 11, 1873.	1.3	2
115	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.	1.3	0
116	The choice of negative control antisense oligonucleotides dramatically impacts downstream analysis depending on the cellular background. <i>BMC Genomic Data</i> , 2021, 22, 33.	0.7	0
117	Development of a diffusion-weighted mathematical model for intradermal drainage quantification. <i>Drug Delivery and Translational Research</i> , 2022, 12, 897-905.	3.0	0