

# Mathias Francois

## List of Publications by Year in descending order

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Version: 2024-02-01

70  
papers

3,528  
citations

101496

36  
h-index

149623

56  
g-index

81  
all docs

81  
docs citations

81  
times ranked

4711  
citing authors

#	ARTICLE	IF	CITATIONS
1	Sox18 induces development of the lymphatic vasculature in mice. <i>Nature</i> , 2008, 456, 643-647.	13.7	483
2	The Schlemm's canal is a VEGF-C/VEGFR-3-responsive lymphatic-like vessel. <i>Journal of Clinical Investigation</i> , 2014, 124, 3975-3986.	3.9	179
3	SoxF genes: Key players in the development of the cardio-vascular system. <i>International Journal of Biochemistry and Cell Biology</i> , 2010, 42, 445-448.	1.2	137
4	Functional Definition of Progenitors Versus Mature Endothelial Cells Reveals Key SoxF-Dependent Differentiation Process. <i>Circulation</i> , 2017, 135, 786-805.	1.6	122
5	Vegfc Regulates Bipotential Precursor Division and Prox1 Expression to Promote Lymphatic Identity in Zebrafish. <i>Cell Reports</i> , 2015, 13, 1828-1841.	2.9	118
6	Possible Genetic Predisposition to Lymphedema after Breast Cancer. <i>Lymphatic Research and Biology</i> , 2012, 10, 2-13.	0.5	98
7	Mural lymphatic endothelial cells regulate meningeal angiogenesis in the zebrafish. <i>Nature Neuroscience</i> , 2017, 20, 774-783.	7.1	91
8	Deep conservation of the enhancer regulatory code in animals. <i>Science</i> , 2020, 370, .	6.0	89
9	Cartilage breakdown in rheumatoid arthritis. <i>Joint Bone Spine</i> , 2006, 73, 29-36.	0.8	87
10	<i>Sox7</i> and <i>Sox17</i> are strain-specific modifiers of the lymphangiogenic defects caused by <i>Sox18</i> dysfunction in mice. <i>Development (Cambridge)</i> , 2009, 136, 2385-2391.	1.2	82
11	Segmental territories along the cardinal veins generate lymph sacs via a ballooning mechanism during embryonic lymphangiogenesis in mice. <i>Developmental Biology</i> , 2012, 364, 89-98.	0.9	78
12	<i>Pkd1</i> Regulates Lymphatic Vascular Morphogenesis during Development. <i>Cell Reports</i> , 2014, 7, 623-633.	2.9	77
13	Tumor Lymphangiogenesis as a Potential Therapeutic Target. <i>Journal of Oncology</i> , 2012, 2012, 1-23.	0.6	74
14	Cyclic tensile stretch modulates proteoglycan production by intervertebral disc annulus fibrosus cells through production of nitrite oxide. <i>Journal of Cellular Biochemistry</i> , 2003, 90, 148-157.	1.2	69
15	Pharmacologic induction of heme oxygenase 1 reduces acute inflammatory arthritis in mice. <i>Arthritis and Rheumatism</i> , 2007, 56, 2585-2594.	6.7	65
16	VEGFD regulates blood vascular development by modulating SOX18 activity. <i>Blood</i> , 2014, 123, 1102-1112.	0.6	65
17	A blood capillary plexus-derived population of progenitor cells contributes to genesis of the dermal lymphatic vasculature during embryonic development. <i>Development (Cambridge)</i> , 2018, 145, .	1.2	64
18	Induction of Necrosis in Human Neutrophils by <i>Shigella flexneri</i> Requires Type III Secretion, IpaB and IpaC Invasins, and Actin Polymerization. <i>Infection and Immunity</i> , 2000, 68, 1289-1296.	1.0	63

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19	<i>mafa</i> is a downstream transcriptional effector of Vegfc signaling essential for embryonic lymphangiogenesis in zebrafish. <i>Genes and Development</i> , 2015, 29, 1618-1630.	2.7	63
20	Tmem2 Regulates Embryonic Vegf Signaling by Controlling Hyaluronic Acid Turnover. <i>Developmental Cell</i> , 2017, 40, 123-136.	3.1	63
21	Genetic Ablation of SOX18 Function Suppresses Tumor Lymphangiogenesis and Metastasis of Melanoma in Mice. <i>Cancer Research</i> , 2012, 72, 3105-3114.	0.4	56
22	Pharmacological manipulation of transcription factor protein-protein interactions: opportunities and obstacles. <i>Cell Regeneration</i> , 2015, 4, 4:2.	1.1	52
23	Pharmacological targeting of the transcription factor SOX18 delays breast cancer in mice. <i>ELife</i> , 2017, 6, .	2.8	50
24	The Transcriptional Control of Lymphatic Vascular Development. <i>Physiology</i> , 2011, 26, 146-155.	1.6	49
25	Vascular defects in a mouse model of hypotrichosis-lymphedema-telangiectasia syndrome indicate a role for SOX18 in blood vessel maturation. <i>Human Molecular Genetics</i> , 2009, 18, 2839-2850.	1.4	48
26	Dual effects of 17 $\beta$ -oestradiol on interleukin 1 $\alpha$ -induced proteoglycan degradation in chondrocytes. <i>Annals of the Rheumatic Diseases</i> , 2004, 63, 191-199.	0.5	46
27	Peroxisome Proliferator-activated Receptor- $\beta$ Down-regulates Chondrocyte Matrix Metalloproteinase-1 via a Novel Composite Element. <i>Journal of Biological Chemistry</i> , 2004, 279, 28411-28418.	1.6	46
28	Three-Dimensional Imaging of Prox1-EGFP Transgenic Mouse Gonads Reveals Divergent Modes of Lymphangiogenesis in the Testis and Ovary. <i>PLoS ONE</i> , 2012, 7, e52620.	1.1	46
29	Structure and decoy-mediated inhibition of the SOX18/Prox1-DNA interaction. <i>Nucleic Acids Research</i> , 2016, 44, 3922-3935.	6.5	44
30	STAT5 Activation in the Dermal Papilla Is Important for Hair Follicle Growth Phase Induction. <i>Journal of Investigative Dermatology</i> , 2016, 136, 1781-1791.	0.3	43
31	SoxF factors induce Notch1 expression via direct transcriptional regulation during early arterial development. <i>Development (Cambridge)</i> , 2017, 144, 2629-2639.	1.2	43
32	Small-Molecule Inhibitors of the SOX18 Transcription Factor. <i>Cell Chemical Biology</i> , 2017, 24, 346-359.	2.5	42
33	PTRF/Cavin-1 decreases prostate cancer angiogenesis and lymphangiogenesis. <i>Oncotarget</i> , 2013, 4, 1844-1855.	0.8	42
34	Control of retinoid levels by CYP26B1 is important for lymphatic vascular development in the mouse embryo. <i>Developmental Biology</i> , 2014, 386, 25-33.	0.9	41
35	Endovascular progenitors infiltrate melanomas and differentiate towards a variety of vascular beds promoting tumor metastasis. <i>Nature Communications</i> , 2019, 10, 18.	5.8	41
36	Modulating transcription factor activity: Interfering with protein-protein interaction networks. <i>Seminars in Cell and Developmental Biology</i> , 2020, 99, 12-19.	2.3	41

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37	Diet-induced hypercholesterolemia promotes androgen-independent prostate cancer metastasis via IQGAP1 and caveolin-1. <i>Oncotarget</i> , 2015, 6, 7438-7453.	0.8	41
38	Activation of the peroxisome proliferator-activated receptor $\beta$ pathway potentiates interleukin-1 receptor antagonist production in cytokine-treated chondrocytes. <i>Arthritis and Rheumatism</i> , 2006, 54, 1233-1245.	6.7	40
39	Sox18 Genetically Interacts With VegfC to Regulate Lymphangiogenesis in Zebrafish. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2013, 33, 1238-1247.	1.1	38
40	Vegfc/d-dependent regulation of the lymphatic vasculature during cardiac regeneration is influenced by injury context. <i>Npj Regenerative Medicine</i> , 2019, 4, 18.	2.5	37
41	Arap3 is dysregulated in a mouse model of hypotrichosis-lymphedema-telangiectasia and regulates lymphatic vascular development. <i>Human Molecular Genetics</i> , 2014, 23, 1286-1297.	1.4	36
42	R-propranolol is a small molecule inhibitor of the SOX18 transcription factor in a rare vascular syndrome and hemangioma. <i>ELife</i> , 2019, 8, .	2.8	35
43	Dominant-negative Sox18 function inhibits dermal papilla maturation and differentiation in all murine hair types. <i>Development (Cambridge)</i> , 2017, 144, 1887-1895.	1.2	34
44	Hypotrichosis-lymphedema-telangiectasia-renal defect associated with a truncating mutation in the SOX18 gene. <i>Clinical Genetics</i> , 2015, 87, 378-382.	1.0	33
45	15-Deoxy- $\Delta^{12,14}$ -prostaglandin J2 inhibits IL-1 $\beta$ -induced IKK enzymatic activity and $\beta$ -degradation in rat chondrocytes through a PPAR $\beta$ -independent pathway. <i>FEBS Letters</i> , 2004, 572, 33-40.	1.3	31
46	A high interleukin 1 receptor antagonist/IL-1 $\beta$ ratio occurs naturally in knee osteoarthritis. <i>Journal of Rheumatology</i> , 2008, 35, 1650-4.	1.0	31
47	Sox9 and Rbpj differentially regulate endothelial to mesenchymal transition and wound scarring in murine endovascular progenitors. <i>Nature Communications</i> , 2021, 12, 2564.	5.8	26
48	Non- $\beta$ blocker enantiomers of propranolol and atenolol inhibit vasculogenesis in infantile hemangioma. <i>Journal of Clinical Investigation</i> , 2022, 132, .	3.9	26
49	Rosiglitazone induces interleukin-1 receptor antagonist in interleukin-1 $\beta$ -stimulated rat synovial fibroblasts via a peroxisome proliferator-activated receptor $\gamma$ -dependent mechanism. <i>Arthritis and Rheumatism</i> , 2005, 52, 759-769.	6.7	23
50	Non-caveolar caveolin-1 expression in prostate cancer cells promotes lymphangiogenesis. <i>Oncoscience</i> , 2015, 2, 635-645.	0.9	22
51	Homodimerization regulates an endothelial specific signature of the SOX18 transcription factor. <i>Nucleic Acids Research</i> , 2018, 46, 11381-11395.	6.5	21
52	Uterine SOX17: a key player in human endometrial receptivity and embryo implantation. <i>Scientific Reports</i> , 2019, 9, 15495.	1.6	21
53	Oncogenic Herpesvirus Engages Endothelial Transcription Factors SOX18 and PROX1 to Increase Viral Genome Copies and Virus Production. <i>Cancer Research</i> , 2020, 80, 3116-3129.	0.4	17
54	Sox Factors Transcriptionally Regulate ROBO4 Gene Expression in Developing Vasculature in Zebrafish. <i>Journal of Biological Chemistry</i> , 2011, 286, 30740-30747.	1.6	15

#	ARTICLE	IF	CITATIONS
55	When form meets function: the cells and signals that shape the lymphatic vasculature during development. <i>Development (Cambridge)</i> , 2021, 148, .	1.2	14
56	Tmem2 Regulates Embryonic Vegf Signaling by Controlling Hyaluronic Acid Turnover. <i>Developmental Cell</i> , 2017, 40, 421.	3.1	12
57	<sc>MAFB</sc> modulates the maturation of lymphatic vascular networks in mice. <i>Developmental Dynamics</i> , 2020, 249, 1201-1216.	0.8	10
58	Cytoplasmic Plaque Formation in Hemidesmosome Development Is Dependent on SoxF Transcription Factor Function. <i>PLoS ONE</i> , 2012, 7, e43857.	1.1	8
59	Functional domain analysis of SOX18 transcription factor using a single-chain variable fragment-based approach. <i>MAbs</i> , 2018, 10, 596-606.	2.6	7
60	A dominant-negative SOX18 mutant disrupts multiple regulatory layers essential to transcription factor activity. <i>Nucleic Acids Research</i> , 2021, 49, 10931-10955.	6.5	7
61	Modulation of proteoglycan production by cyclic tensile stretch in intervertebral disc cells through a post-translational mechanism. <i>Biorheology</i> , 2006, 43, 303-10.	1.2	7
62	Studies on Axenfeld-Rieger syndrome patients and mice reveal Foxc1's role in corneal neovascularization. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 1818-1819.	3.3	3
63	Lymphatic vascular specification and its modulation during embryonic development. <i>Microvascular Research</i> , 2014, 96, 3-9.	1.1	3
64	Ectopic expression of SOX18 in Basal cell carcinoma negatively regulates tumour progression. <i>Journal of Dermatological Science</i> , 2020, 98, 179-185.	1.0	3
65	<i>Pkd1</i> and <i>Wnt5a</i> genetically interact to control lymphatic vascular morphogenesis in mice. <i>Developmental Dynamics</i> , 2022, 251, 336-349.	0.8	3
66	Assessment of heterogeneity in collective endothelial cell behavior with multicolor clonal cell tracking to predict arteriovenous remodeling. <i>Cell Reports</i> , 2021, 36, 109395.	2.9	2
67	Peroxisome proliferator-activated receptor gamma and its ligands in controlling interleukin-1beta target gene expression: A confusing story. <i>Drug News and Perspectives</i> , 2005, 18, 257.	1.9	1
68	Transcriptional Modulation of Tumour Induced Angiogenesis. , 0, , .		0
69	Abstract 4950: Hypercholesterolemia promotes prostate cancer PC-3 metastases in orthotopic xenograft mice. , 2014, , .		0
70	Heterogeneity in Collective Endothelial Cell Behavior is a Driver of Arterio-Venous Remodeling. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0