Marcus Fruttiger

List of Publications by Year
in descending order

107 papers	13,971 citations	36271 51 h-index	37183 96 g-index
114 all docs	114 docs citations	114 times ranked	16677 citing authors

#	Article	IF	Citations
1	Intraretinal pigmented cells in retinal degenerative disease. British Journal of Ophthalmology, 2023, 107, 1736-1743.	2.1	4
2	Associations of Alcohol Consumption and Smoking With Disease Risk and Neurodegeneration in Individuals With Multiple Sclerosis in the United Kingdom. JAMA Network Open, 2022, 5, e220902.	2.8	8
3	VEGFR1 signaling in retinal angiogenesis and microinflammation. Progress in Retinal and Eye Research, 2021, 84, 100954.	7.3	123
4	Systemic lipid dysregulation is a risk factor for macular neurodegenerative disease. Scientific Reports, 2020, 10, 12165.	1.6	24
5	Synergistic effect of vascular endothelial growth factor gene inactivation in endothelial cells and skeletal myofibres on muscle enzyme activity, capillary supply and endurance exercise in mice. Experimental Physiology, 2020, 105, 2168-2177.	0.9	2
6	RhoJ integrates attractive and repulsive cues in directional migration of endothelial cells. EMBO Journal, 2020, 39, e102930.	3.5	17
7	Macular Telangiectasia Type 2: Visual Acuity, Disease End Stage, and the MacTel Area. Ophthalmology, 2020, 127, 1539-1548.	2.5	34
8	Longitudinal Assessment of Remnant Foveal Cone Structure in a Case Series of Early Macular Telangiectasia Type 2. Translational Vision Science and Technology, 2020, 9, 27.	1.1	8
9	Intravenous indocyanine green dye is insufficient for robust immune cell labelling in the human retina. PLoS ONE, 2020, 15, e0226311.	1.1	6
10	Title is missing!. , 2020, 15, e0226311.		0
11	Title is missing!. , 2020, 15, e0226311.		0
12	Title is missing!. , 2020, 15, e0226311.		0
13	Title is missing!. , 2020, 15, e0226311.		0
14	Contrast sensitivity and visual acuity under low light conditions in macular telangiectasia type 2. British Journal of Ophthalmology, 2019, 103, 398-403.	2.1	12
15	High-Resolution In Vivo Fundus Angiography using a Nonadaptive Optics Imaging System. Translational Vision Science and Technology, 2019, 8, 54.	1.1	3
16	Binocular Inhibition of Reading in Macular Telangiectasia Type 2. , 2019, 60, 3835.		13
17	Serine and Lipid Metabolism in Macular Disease and Peripheral Neuropathy. New England Journal of Medicine, 2019, 381, 1422-1433.	13.9	166
18	Dark-Adapted Two-Color Fundus-Controlled Perimetry in Macular Telangiectasia Type 2. , 2019, 60, 1760.		11

#	Article	IF	Citations
19	p53 plays a crucial role in endothelial dysfunction associated with hyperglycemia and ischemia. Journal of Molecular and Cellular Cardiology, 2019, 129, 105-117.	0.9	40
20	ELECTROPHYSIOLOGICAL CHARACTERIZATION OF MACULAR TELANGIECTASIA TYPE 2 AND STRUCTUREâ€“FUNCTION CORRELATION. Retina, 2018, 38, S33-S42.	1.0	15
21	EFFECT OF DARK ADAPTATION AND BLEACHING ON BLUE LIGHT REFLECTANCE IMAGING IN MACULAR TELANGIECTASIA TYPE 2. Retina, 2018, 38, S89-S96.	1.0	3
22	ABNORMAL RETINAL REFLECTIVITY TO SHORT-WAVELENGTH LIGHT IN TYPE 2 IDIOPATHIC MACULAR TELANGIECTASIA. Retina, 2018, 38, S79-S88.	1.0	26
23	FUNDUS-WIDE SUBRETINAL AND PIGMENT EPITHELIAL ABNORMALITIES IN MACULAR TELANGIECTASIA TYPE 2. Retina, 2018, 38, S105-S113.	1.0	10
24	MACULAR TELANGIECTASIA TYPE 2. Retina, 2018, 38, S97-S104.	1.0	6
25	Retinal vasculature development in health and disease. Progress in Retinal and Eye Research, 2018, 63, 1-19.	7.3	210
26	Consensus guidelines for the use and interpretation of angiogenesis assays. Angiogenesis, 2018, 21, 425-532.	3.7	429
27	Inhibition of stromal cellâ€“derived factor-1Î±/CXCR4 signaling restores the blood-retina barrier in pericyte-deficient mouse retinas. JCI Insight, 2018, 3, .	2.3	8
28	Biological aspects of axonal damage in glaucoma: A brief review. Experimental Eye Research, 2017, 157, 5-12.	1.2	61
29	Genome-wide analyses identify common variants associated with macular telangiectasia type 2. Nature Genetics, 2017, 49, 559-567.	9.4	105
30	Biomechanical aspects of axonal damage in glaucoma: A brief review. Experimental Eye Research, 2017, 157, 13-19.	1.2	88
31	Tumour ischaemia by interferon-Î³ resembles physiological blood vessel regression. Nature, 2017, 545, 98-102.	13.7	199
32	YAP/TAZ-CDC42 signaling regulates vascular tip cell migration. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 10918-10923.	3.3	147
33	Conditional MÃ¼ller Cell Ablation Leads to Retinal Iron Accumulation. , 2017, 58, 4223.		28
34	Neuropilin 1 Involvement in Choroidal and Retinal Neovascularisation. PLoS ONE, 2017, 12, e0169865.	1.1	14
35	Evaluation of Nonperfused Retinal Vessels in Ischemic Retinopathy. , 2016, 57, 5031.		25
36	Diverse Functions of Retinoic Acid in Brain Vascular Development. Journal of Neuroscience, 2016, 36, 7786-7801.	1.7	35

#	Article	IF	Citations
37	Pleiotropic action of CpG-ODN on endothelium and macrophages attenuates angiogenesis through distinct pathways. Scientific Reports, 2016, 6, 31873.	1.6	13
38	Retinal lipid and glucose metabolism dictates angiogenesis through the lipid sensor Ffar1. Nature Medicine, 2016, 22, 439-445.	15.2	183
39	FOXO1 couples metabolic activity and growth state in the vascular endothelium. Nature, 2016, 529, 216-220.	13.7	438
40	Intravitreally Injected Anti-VEGF Antibody Reduces Brown Fat in Neonatal Mice. PLoS ONE, 2015, 10, e0134308.	1.1	13
41	cKit Lineage Hemogenic Endothelium-Derived Cells Contribute to Mesenteric Lymphatic Vessels. Cell Reports, 2015, 10, 1708-1721.	2.9	207
42	Suppression of transient receptor potential canonical channel 4 inhibits vascular endothelial growth factor-induced retinal neovascularization. Cell Calcium, 2015, 57, 101-108.	1.1	24
43	Alk1 and Alk5 inhibition by Nrp1 controls vascular sprouting downstream of Notch. Nature Communications, 2015, 6, 7264.	5.8	143
44	Diabetic macular ischaemia is associated with narrower retinal arterioles in patients with type 2 diabetes. Acta Ophthalmologica, 2015, 93, e45-51.	0.6	22
45	Depot Indocyanine green dye for<i>in vivo</i>visualization of infiltrating leukocytes. DMM Disease Models and Mechanisms, 2015, 8, 1479-87.	1.2	9
46	PTEN mediates Notch-dependent stalk cell arrest in angiogenesis. Nature Communications, 2015, 6, 7935.	5.8	86
47	Reevaluating the Definition of Intraretinal Microvascular Abnormalities and Neovascularization Elsewhere in Diabetic Retinopathy Using Optical Coherence Tomography and Fluorescein Angiography. American Journal of Ophthalmology, 2015, 159, 101-110.e1.	1.7	73
48	Acute Depletion of Endothelial Î²3-Integrin Transiently Inhibits Tumor Growth and Angiogenesis in Mice. Circulation Research, 2014, 114, 79-91.	2.0	36
49	Crim1 maintains retinal vascular stability during development by regulating endothelial cell Vegfa autocrine signaling. Development (Cambridge), 2014, 141, 448-459.	1.2	44
50	Selective deletion of the endothelial sphingosine-1-phosphate 1 receptor exacerbates kidney ischemiaâ€“reperfusion injury. Kidney International, 2014, 85, 807-823.	2.6	27
51	Survivin-Induced Abnormal Ploidy Contributes to Cystic Kidney and Aneurysm Formation. Circulation, 2014, 129, 660-672.	1.6	48
52	Quantification of vascular tortuosity as an early outcome measure in oxygen induced retinopathy (OIR). Experimental Eye Research, 2014, 120, 55-60.	1.2	27
53	Quantitative Analysis of Diabetic Macular Ischemia Using Optical Coherence Tomography. , 2014, 55, 417.		63
54	The ubiquitin ligase PDZRN3 is required for vascular morphogenesis through Wnt/planar cell polarity signalling. Nature Communications, 2014, 5, 4832.	5.8	50

#	Article	IF	Citations
55	Patterns of Peripheral Retinal and Central Macula Ischemia in Diabetic Retinopathy as Evaluated by Ultra-widefield Fluorescein Angiography. American Journal of Ophthalmology, 2014, 158, 144-153.e1.	1.7	122
56	Expression of Neonatal Fc Receptor in the Eye. , 2014, 55, 1607.		54
57	Inhibition of Endothelial p53 Improves Metabolic Abnormalities Related to Dietary Obesity. Cell Reports, 2014, 7, 1691-1703.	2.9	95
58	Endothelial Depletion of Acvrl1 in Mice Leads to Arteriovenous Malformations Associated with Reduced Endoglin Expression. PLoS ONE, 2014, 9, e98646.	1.1	107
59	A Crucial Role for CDC42 in Senescence-Associated Inflammation and Atherosclerosis. PLoS ONE, 2014, 9, e102186.	1.1	46
60	Predictive Factors for the Progression of Diabetic Macular Ischemia. American Journal of Ophthalmology, 2013, 156, 684-692.e1.	1.7	72
61	Loss of MÃ¼ller's Cells and Photoreceptors inÂMacular Telangiectasia TypeÂ2. Ophthalmology, 2013, 120, 2344-2352.	2.5	181
62	Whole Mount Immunofluorescent Staining of the Neonatal Mouse Retina to Investigate Angiogenesis In vivo. Journal of Visualized Experiments, 2013, , e50546.	0.2	64
63	The Effects of Macular Ischemia on Visual Acuity in Diabetic Retinopathy. , 2013, 54, 2353.		138
64	NRP1 acts cell autonomously in endothelium to promote tip cell function during sprouting angiogenesis. Blood, 2013, 121, 2352-2362.	0.6	142
65	Repeatability and Reproducibility of Choroidal Vessel Layer Measurements in Diabetic Retinopathy Using Enhanced Depth Optical Coherence Tomography. , 2013, 54, 2893.		54
66	Keeping blood vessels out of sight. ELife, 2013, 2, e00948.	2.8	4
67	Conditional MÃ¼ller Cell Ablation Causes Independent Neuronal and Vascular Pathologies in a Novel Transgenic Model. Journal of Neuroscience, 2012, 32, 15715-15727.	1.7	207
68	Von Hippel-Lindau protein in the RPE is essential for normal ocular growth and vascular development. Development (Cambridge), 2012, 139, 2340-2350.	1.2	23
69	Endothelial Wnt/Î²-catenin signaling inhibits glioma angiogenesis and normalizes tumor blood vessels by inducing PDGF-B expression. Journal of Experimental Medicine, 2012, 209, 1611-1627.	4.2	127
70	Apelin Is Required for Non-Neovascular Remodeling in the Retina. American Journal of Pathology, 2012, 180, 399-409.	1.9	31
71	Visualization of gene expression in whole mouse retina by in situ hybridization. Nature Protocols, 2012, 7, 1086-1096.	5.5	25
72	Pilot Application of iTRAQ to the Retinal Disease Macular Telangiectasia. Journal of Proteome Research, 2012, 11, 537-553.	1.8	22

#	Article	IF	Citations
73	Endothelial Expression of TGFÎ² Type II Receptor Is Required to Maintain Vascular Integrity during Postnatal Development of the Central Nervous System. PLoS ONE, 2012, 7, e39336.	1.1	49
74	Notch Signaling in Vascular Development. , 2012, , 45-57.		1
75	VEGFR-3 controls tip to stalk conversion at vessel fusion sites by reinforcing Notch signalling. Nature Cell Biology, 2011, 13, 1202-1213.	4.6	272
76	Basement membrane changes in capillaries of the ageing human retina. British Journal of Ophthalmology, 2011, 95, 1316-1322.	2.1	17
77	Endothelial FAK is required for tumour angiogenesis. EMBO Molecular Medicine, 2010, 2, 516-528.	3.3	121
78	Oxygen-induced retinopathy: a model for vascular pathology in the retina. Eye, 2010, 24, 416-421.	1.1	134
79	Endothelial-Rac1 Is Not Required for Tumor Angiogenesis unless Î±vÎ²3-Integrin Is Absent. PLoS ONE, 2010, 5, e9766.	1.1	22
80	Pathogenesis of Arteriovenous Malformations in the Absence of Endoglin. Circulation Research, 2010, 106, 1425-1433.	2.0	212
81	Essential Regulation of CNS Angiogenesis by the Orphan G Proteinâ€"Coupled Receptor GPR124. Science, 2010, 330, 985-989.	6.0	247
82	Perifoveal MÃ¼ller Cell Depletion in a Case of Macular Telangiectasia Type 2. Ophthalmology, 2010, 117, 2407-2416.	2.5	234
83	Astrocyte-Derived Vascular Endothelial Growth Factor Stabilizes Vessels in the Developing Retinal Vasculature. PLoS ONE, 2010, 5, e11863.	1.1	120
84	Analysis of candidate genes for macular telangiectasia type 2. Molecular Vision, 2010, 16, 2718-26.	1.1	17
85	Genetic ablation of retinal pigment epithelial cells reveals the adaptive response of the epithelium and impact on photoreceptors. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 18728-18733.	3.3	80
86	The Notch Ligands Dll4 and Jagged1 Have Opposing Effects on Angiogenesis. Cell, 2009, 137, 1124-1135.	13.5	914
87	Efficient, inducible Creâ€recombinase activation in vascular endothelium. Genesis, 2008, 46, 74-80.	0.8	260
88	Wnt/Î²-catenin signaling controls development of the bloodâ€"brain barrier. Journal of Cell Biology, 2008, 183, 409-417.	2.3	680
89	VEGF Gene Regulation. , 2008, , 30-39.		6
90	Platelet-Derived Growth Factor Promotes Repair of Chronically Demyelinated White Matter. Journal of Neuropathology and Experimental Neurology, 2007, 66, 975-988.	0.9	92

#	Article	IF	Citations
91	Development of the retinal vasculature. Angiogenesis, 2007, 10, 77-88.	3.7	438
92	Oxygen modifies artery differentiation and network morphogenesis in the retinal vasculature. Developmental Dynamics, 2005, 233, 822-828.	0.8	42
93	Stabilization of the retinal vascular network by reciprocal feedback between blood vessels and astrocytes. Development (Cambridge), 2005, 132, 1855-1862.	1.2	142
94	Abnormal maturation of the retinal vasculature in type XVIII collagen/endostatin deficient mice and changes in retinal glial cells due to lack of collagen types XV and XVIII. FASEB Journal, 2005, 19, 1564-1566.	0.2	54
95	Periodic Delta-like 4 expression in developing retinal arteries. Gene Expression Patterns, 2004, 5, 123-127.	0.3	116
96	Platelet-derived growth factor regulates oligodendrocyte progenitor numbers in adult CNS and their response following CNS demyelination. Molecular and Cellular Neurosciences, 2004, 25, 252-262.	1.0	276
97	Role of arteries in oxygen induced vaso-obliteration. Experimental Eye Research, 2003, 77, 305-311.	1.2	66
98	VEGF guides angiogenic sprouting utilizing endothelial tip cell filopodia. Journal of Cell Biology, 2003, 161, 1163-1177.	2.3	2,483
99	Arteriolar and venular patterning in retinas of mice selectively expressing VEGF isoforms. Journal of Clinical Investigation, 2002, 109, 327-336.	3.9	340
100	Arteriolar and venular patterning in retinas of mice selectively expressing VEGF isoforms. Journal of Clinical Investigation, 2002, 109, 327-336.	3.9	229
101	Development of the mouse retinal vasculature: angiogenesis versus vasculogenesis. Investigative Ophthalmology and Visual Science, 2002, 43, 522-7.	3.3	208
102	Platelet-derived growth factor is constitutively secreted from neuronal cell bodies but not from axons. Current Biology, 2000, 10, 1283-1286.	1.8	72
103	Disruption of the Gene for the Myelin-Associated Glycoprotein Improves Axonal Regrowth along Myelin in C57BL/Wlds Mice. Neuron, 1996, 16, 1107-1113.	3.8	177
104	PDGF Mediates a Neuronâ€“Astrocyte Interaction in the Developing Retina. Neuron, 1996, 17, 1117-1131.	3.8	221
105	Involvement of integrins alpha v beta 3 and alpha v beta 5 in ocular neovascular diseases.. Proceedings of the National Academy of Sciences of the United States of America, 1996, 93, 9764-9769.	3.3	444
106	Tenascin-C expression during Wallerian degeneration in C57BL/Wlds mice: possible implications for axonal regeneration. Journal of Neurocytology, 1995, 24, 1-14.	1.6	38
107	Crucial Role for the Myelin-associated Glycoprotein in the Maintenance of Axon-Myelin Integrity. European Journal of Neuroscience, 1995, 7, 511-515.	1.2	225