Rudolf Fuchshofer

List of Publications by Citations

61 papers	2,639 citations	30 h-index	51 g-index
66 ext. papers	3,033 ext. citations	5 avg, IF	5.12 L-index

#	Paper	IF	Citations
61	The role of TGF-β in the pathogenesis of primary open-angle glaucoma. *Cell and Tissue Research*, **2012**, 347, 279-90	4.2	191
60	Connective tissue growth factor causes glaucoma by modifying the actin cytoskeleton of the trabecular meshwork. *American Journal of Pathology*, **2012**, 180, 2386-403	5.8	139
59	Consensus recommendations for trabecular meshwork cell isolation, characterization and culture. *Experimental Eye Research*, **2018**, 171, 164-173	3.7	130
58	Bone morphogenetic protein-7 is an antagonist of transforming growth factor-beta2 in human trabecular meshwork cells. *Investigative Ophthalmology and Visual Science*, **2007**, 48, 715-26		121
57	Transforming growth factor-beta 2 modulated extracellular matrix component expression in cultured human optic nerve head astrocytes. *Investigative Ophthalmology and Visual Science*, **2005**, 46, 568-78		120
56	Altered mechanobiology of Schlemm's canal endothelial cells in glaucoma. *Proceedings of the National Academy of Sciences of the United States of America*, **2014**, 111, 13876-81	11.5	110
55	The effect of TGF-beta2 on human trabecular meshwork extracellular proteolytic system. *Experimental Eye Research*, **2003**, 77, 757-65	3.7	105
54	Luteolin triggers global changes in the microglial transcriptome leading to a unique anti-inflammatory and neuroprotective phenotype. *Journal of Neuroinflammation*, **2010**, 7, 3	10.1	104
53	Modulation of extracellular matrix turnover in the trabecular meshwork. *Experimental Eye Research*, **2009**, 88, 683-8	3.7	98
52	What increases outflow resistance in primary open-angle glaucoma?. *Survey of Ophthalmology*, **2007**, 52 Suppl 2, S101-4	6.1	98
51	Thrombospondin-1 in the trabecular meshwork: localization in normal and glaucomatous eyes, and induction by TGF-beta1 and dexamethasone in vitro. *Experimental Eye Research*, **2004**, 79, 649-63	3.7	98
50	Connective tissue growth factor induces extracellular matrix deposition in human trabecular meshwork cells. *Experimental Eye Research*, **2009**, 88, 1065-75	3.7	91
49	The aqueous humor outflow pathways in glaucoma: A unifying concept of disease mechanisms and causative treatment. *European Journal of Pharmaceutics and Biopharmaceutics*, **2015**, 95, 173-81	5.7	90
48	Effects of oxidative stress in trabecular meshwork cells are reduced by prostaglandin analogues **2008**, 49, 4872-80		65
47	Intraocular Pressure and the Mechanisms Involved in Resistance of the Aqueous Humor Flow in the Trabecular Meshwork Outflow Pathways. *Progress in Molecular Biology and Translational Science*, **2015**, 134, 301-14	4	63
46	Gene expression profiling of TGFbeta2- and/or BMP7-treated trabecular meshwork cells: Identification of Smad7 as a critical inhibitor of TGF-beta2 signaling. *Experimental Eye Research*, **2009**, 88, 1020-32	3.7	63
45	Subtoxic oxidative stress induces senescence in retinal pigment epithelial cells via TGF-beta release **2009**, 50, 926-35		60

44	CTGF is overexpressed in malignant melanoma and promotes cell invasion and migration. *British Journal of Cancer*, **2011**, 105, 231-8	8.7	57
43	The role of astrocytes in optic nerve head fibrosis in glaucoma. *Experimental Eye Research*, **2016**, 142, 49-55	3.7	56
42	Ligand-functionalized nanoparticles target endothelial cells in retinal capillaries after systemic application. *Proceedings of the National Academy of Sciences of the United States of America*, **2013**, 110, 6115-20	11.5	53
41	Different collagen types define two types of idiopathic epiretinal membranes. *Histopathology*, **2011**, 58, 953-65	7.3	52
40	The pathogenic role of transforming growth factor-β2 in glaucomatous damage to the optic nerve head. *Experimental Eye Research*, **2011**, 93, 165-9	3.7	49
39	The novel activated microglia/macrophage WAP domain protein, AMWAP, acts as a counter-regulator of proinflammatory response. *Journal of Immunology*, **2010**, 185, 3379-90	5.3	48
38	Lack of endothelial diaphragms in fenestrae and caveolae of mutant Plvap-deficient mice. *Histochemistry and Cell Biology*, **2012**, 138, 709-24	2.4	47
37	Anterior segment dysgenesis in the eyes of mice deficient for the high-mobility-group transcription factor Sox11. *Experimental Eye Research*, **2008**, 86, 895-907	3.7	47
36	Biochemical and morphological analysis of basement membrane component expression in corneoscleral and cribriform human trabecular meshwork cells. *Investigative Ophthalmology and Visual Science*, **2006**, 47, 794-801		45
35	Identification of adult stem cells in Schwalbeâs line region of the primate eye **2014**, 55, 7499-507		41
34	Hypoxia/reoxygenation and TGF-beta increase alphaB-crystallin expression in human optic nerve head astrocytes. *Experimental Eye Research*, **2007**, 84, 694-706	3.7	37
33	Oxidative stress and TGF-beta2 increase heat shock protein 27 expression in human optic nerve head astrocytes **2008**, 49, 5403-11		35
32	Synonymous variants in HTRA1 implicated in AMD susceptibility impair its capacity to regulate TGF-βsignaling. *Human Molecular Genetics*, **2015**, 24, 6361-73	5.6	32
31	Intracameral Delivery of Layer-by-Layer Coated siRNA Nanoparticles for Glaucoma Therapy. *Small*, **2018**, 14, e1803239	11	29
30	Elevated amounts of myocilin in the aqueous humor of transgenic mice cause significant changes in ocular gene expression. *Experimental Eye Research*, **2008**, 87, 257-67	3.7	26
29	Connective tissue growth factor modulates podocyte actin cytoskeleton and extracellular matrix synthesis and is induced in podocytes upon injury. *Histochemistry and Cell Biology*, **2011**, 136, 301-19	2.4	23
28	Hypoxia/reoxygenation induces CTGF and PAI-1 in cultured human retinal pigment epithelium cells. *Experimental Eye Research*, **2009**, 88, 889-99	3.7	20
27	Heterozygous modulation of TGF-βsignaling does not influence Müller glia cell reactivity or proliferation following NMDA-induced damage. *Histochemistry and Cell Biology*, **2015**, 144, 443-55	2.4	19

26	Anatomical study of pelvic nerves in relation to seminal vesicles, prostate and urethral sphincter: immunohistochemical staining, computerized planimetry and 3-dimensional reconstruction. *Journal of Urology*, **2015**, 193, 1205-12	2.5	17
25	Norrin protects optic nerve axons from degeneration in a mouse model of glaucoma. *Scientific Reports*, **2017**, 7, 14274	4.9	13
24	Loss of retinal ganglion cells in a new genetic mouse model for primary open-angle glaucoma. *Journal of Cellular and Molecular Medicine*, **2019**, 23, 5497-5507	5.6	13
23	The regulation of connective tissue growth factor expression influences the viability of human trabecular meshwork cells. *Journal of Cellular and Molecular Medicine*, **2015**, 19, 1010-20	5.6	11
22	Reactivation of optic nerve head astrocytes by TGF-beta2 and H2O2 is accompanied by increased Hsp32 and Hsp47 expression **2009**, 50, 1707-17		11
21	SPARC is expressed in scars of the Tenonæs capsule and mediates scarring properties of human Tenonæs fibroblasts in vitro. *Molecular Vision*, **2011**, 17, 177-85	2.3	11
20	Hypertensive retinopathy in a transgenic angiotensin-based model. *Clinical Science*, **2016**, 130, 1075-88	6.5	10
19	Heterozygote Wdr36-deficient mice do not develop glaucoma. *Experimental Eye Research*, **2014**, 128, 83-91	3.7	10
18	Cyclic RGD peptides target human trabecular meshwork cells while ameliorating connective tissue growth factor-induced fibrosis. *Journal of Drug Targeting*, **2016**, 24, 952-959	5.4	8
17	Fasudil Loaded PLGA Microspheres as Potential Intravitreal Depot Formulation for Glaucoma Therapy. *Pharmaceutics*, **2020**, 12,	6.4	8
16	Ex vivo excimer laser ablation of cornea guttata and ROCK inhibitor-aided endothelial recolonization of ablated central cornea. *Acta Ophthalmologica*, **2020**, 98, e773-e780	3.7	7
15	Increased expression of olfactomedin-1 and myocilin in podocytes during puromycin aminonucleoside nephrosis. *Nephrology Dialysis Transplantation*, **2011**, 26, 83-92	4.3	7
14	SMAD7 deficiency stimulates Müller progenitor cell proliferation during the development of the mammalian retina. *Histochemistry and Cell Biology*, **2017**, 148, 21-32	2.4	6
13	The prostaglandin f2α analog fluprostenol attenuates the fibrotic effects of connective tissue growth factor on human trabecular meshwork cells. *Journal of Ocular Pharmacology and Therapeutics*, **2014**, 30, 237-45	2.6	6
12	A novel ocular function for decorin in the aqueous humor outflow. *Matrix Biology*, **2021**, 97, 1-19	11.4	6
11	Optineurin associates with the podocyte Golgi complex to maintain its structure. *Cell and Tissue Research*, **2014**, 358, 567-83	4.2	5
10	Activation of Apoptosis in a β1-CTGF Transgenic Mouse Model. *International Journal of Molecular Sciences*, **2021**, 22,	6.3	5
9	Endogenous Wnt/β-catenin signaling in Müller cells protects retinal ganglion cells from excitotoxic damage. *Molecular Vision*, **2020**, 26, 135-149	2.3	4

List of Publications

8	Cross-Inhibition of Norrin and TGF-β Signaling Modulates Development of Retinal and Choroidal Vasculature **2018**, 59, 2240-2251		4
7	Norrin Protects Retinal Ganglion Cells from Excitotoxic Damage via the Induction of Leukemia Inhibitory Factor. *Cells*, **2020**, 9,	7.9	3
6	Decorin-An Antagonist of TGF-β In Astrocytes of the Optic Nerve. *International Journal of Molecular Sciences*, **2021**, 22,	6.3	3
5	CCN2/CTGF promotor activity in the developing and adult mouse eye. *Cell and Tissue Research*, **2021**, 384, 625-641	4.2	2
4	Consensus Recommendation for Mouse Models of Ocular Hypertension to Study Aqueous Humor Outflow and Its Mechanisms. **2022**, 63, 12		1
3	Distribution of Gold Nanoparticles in the Anterior Chamber of the Eye after Intracameral Injection for Glaucoma Therapy. *Pharmaceutics*, **2021**, 13,	6.4	1
2	Cytokine and Complement Response in the Glaucomatous B1-CTGF Mouse Model. *Frontiers in Cellular Neuroscience*, **2021**, 15, 718087	6.1	0
1	CCN2/CTGF-A Modulator of the Optic Nerve Head Astrocyte.. *Frontiers in Cell and Developmental Biology*, **2022**, 10, 864433	5.7	0