

# Michael P Fautsch

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/6757262/publications.pdf>

Version: 2024-02-01

74  
papers

2,411  
citations

430874

18  
h-index

414414

32  
g-index

76  
all docs

76  
docs citations

76  
times ranked

2346  
citing authors

#	ARTICLE	IF	CITATIONS
1	Intracranial Pressure in Primary Open Angle Glaucoma, Normal Tension Glaucoma, and Ocular Hypertension: A Caseâ€“Control Study. , 2008, 49, 5412.		325
2	Consensus recommendations for trabecular meshwork cell isolation, characterization and culture. Experimental Eye Research, 2018, 171, 164-173.	2.6	221
3	Proteome Analysis of Human Aqueous Humor. , 2010, 51, 4921.		169
4	Cerebrospinal Fluid Pressure Decreases with Older Age. PLoS ONE, 2012, 7, e52664.	2.5	129
5	Second-generation Trabecular Meshwork Bypass Stent (iStent inject) Increases Outflow Facility in Cultured Human Anterior Segments. American Journal of Ophthalmology, 2012, 153, 1206-1213.	3.3	100
6	Anatomic Changes in Schlemm's Canal and Collector Channels in Normal and Primary Open-Angle Glaucoma Eyes Using Low and High Perfusion Pressures. , 2014, 55, 5834.		99
7	Imaging the aqueous humor outflow pathway in human eyes by three-dimensional micro-computed tomography (3D micro-CT). Experimental Eye Research, 2011, 92, 104-111.	2.6	98
8	Human Corneal Endothelial Cell Transplantation in a Human Ex Vivo Model. , 2009, 50, 2123.		77
9	Aqueous Humor Outflow: Dynamics and Disease. , 2015, 56, 2993.		63
10	Trinucleotide Repeat Expansion in the Transcription Factor 4 (<i>TCF4</i>) Gene Leads to Widespread mRNA Splicing Changes in Fuchs' Endothelial Corneal Dystrophy. , 2017, 58, 343.		59
11	Repeat-Associated Non-ATG (RAN) Translation in Fuchs' Endothelial Corneal Dystrophy. , 2018, 59, 1888.		53
12	Perfusion of His-Tagged Eukaryotic Myocilin Increases Outflow Resistance in Human Anterior Segments in the Presence of Aqueous Humor. , 2006, 47, 213.		42
13	Midget retinal ganglion cell dendritic and mitochondrial degeneration is an early feature of human glaucoma. Brain Communications, 2019, 1, fcz035.	3.3	40
14	TCF4-mediated Fuchs endothelial corneal dystrophy: Insights into a common trinucleotide repeat-associated disease. Progress in Retinal and Eye Research, 2021, 81, 100883.	15.5	40
15	The identification of myocilin-associated proteins in the human trabecular meshwork. Experimental Eye Research, 2006, 82, 1046-1052.	2.6	36
16	Expression Profile of the Matricellular Protein Osteopontin in Primary Open-Angle Glaucoma and the Normal Human Eye. , 2011, 52, 6443.		36
17	Reduction of amyloid-beta levels in mouse eye tissues byÎ“intra-vitreally delivered neprilysin. Experimental Eye Research, 2015, 138, 134-144.	2.6	36
18	Primary Trabecular Meshwork Cells Incubated in Human Aqueous Humor Differ from Cells Incubated in Serum Supplements. , 2005, 46, 2848.		34

#	ARTICLE	IF	CITATIONS
19	ATP-Sensitive Potassium (KATP) Channel Activation Decreases Intraocular Pressure in the Anterior Chamber of the Eye. , 2011, 52, 6435.		34
20	In vitro and in vivo characterization of disulfide bond use in myocilin complex formation. Molecular Vision, 2004, 10, 417-25.	1.1	34
21	Anatomical Variation of Human Collector Channel Orifices. , 2016, 57, 1153.		32
22	A Porcine Anterior Segment Perfusion and Transduction Model With Direct Visualization of the Trabecular Meshwork. , 2016, 57, 1338.		31
23	ATP sensitive potassium channel openers: A new class of ocular hypotensive agents. Experimental Eye Research, 2017, 158, 85-93.	2.6	31
24	Fibrin hydrogels are safe, degradable scaffolds for sub-retinal implantation. PLoS ONE, 2020, 15, e0227641.	2.5	29
25	Aqueous humor rapidly stimulates myocilin secretion from human trabecular meshwork cells. Experimental Eye Research, 2010, 91, 901-908.	2.6	25
26	Effect of Cromakalim Prodrug 1 (CKLP1) on Aqueous Humor Dynamics and Feasibility of Combination Therapy With Existing Ocular Hypotensive Agents. , 2017, 58, 5731.		24
27	Characterization of monoclonal antibodies against the glaucoma-associated protein myocilin. Experimental Eye Research, 2008, 87, 376-384.	2.6	23
28	Analogues of the ATP-Sensitive Potassium (K <sub>ATP</sub> ) Channel Opener Cromakalim with in Vivo Ocular Hypotensive Activity. Journal of Medicinal Chemistry, 2016, 59, 6221-6231.	6.4	22
29	Carbohydrate binding proteins galectin-1 and galectin-3 in human trabecular meshwork. Experimental Eye Research, 2003, 77, 11-16.	2.6	21
30	ATP-Sensitive Potassium (KATP) Channel Openers Diazoxide and Nicorandil Lower Intraocular Pressure In Vivo. , 2013, 54, 4892.		20
31	A Novel Rat Model to Study the Role of Intracranial Pressure Modulation on Optic Neuropathies. PLoS ONE, 2013, 8, e82151.	2.5	20
32	Gene expression in the corneal endothelium of Fuchs endothelial corneal dystrophy patients with and without expansion of a trinucleotide repeat in TCF4. PLoS ONE, 2018, 13, e0200005.	2.5	20
33	Diet Mimicking "Fast Food" Causes Structural Changes to the Retina Relevant to Age-Related Macular Degeneration. Current Eye Research, 2020, 45, 726-732.	1.5	20
34	Ocular Hypotensive Effects of the ATP-Sensitive Potassium Channel Opener Cromakalim in Human and Murine Experimental Model Systems. PLoS ONE, 2015, 10, e0141783.	2.5	19
35	Fuchs' Endothelial Corneal Dystrophy in Patients With Myotonic Dystrophy, Type 1. , 2018, 59, 3053.		17
36	Gene Expression and Missplicing in the Corneal Endothelium of Patients With a TCF4 Trinucleotide Repeat Expansion Without Fuchs' Endothelial Corneal Dystrophy. , 2019, 60, 3636.		17

#	ARTICLE	IF	CITATIONS
37	Amplification-free long-read sequencing of TCF4 expanded trinucleotide repeats in Fuchs Endothelial Corneal Dystrophy. PLoS ONE, 2019, 14, e0219446.	2.5	16
38	Effect of Trinucleotide Repeat Expansion on the Expression of TCF4 mRNA in Fuchs' Endothelial Corneal Dystrophy. , 2019, 60, 779.		14
39	Differential Intraocular Pressure Measurements by Tonometry and Direct Cannulation After Treatment with Soluble Adenylyl Cyclase Inhibitors. Journal of Ocular Pharmacology and Therapeutics, 2017, 33, 574-581.	1.4	13
40	Stanniocalcin-1 Is an Ocular Hypotensive Agent and a Downstream Effector Molecule That Is Necessary for the Intraocular Pressure- Lowering Effects of Latanoprost. , 2017, 58, 2715.		12
41	ATP-sensitive potassium (KATP) channel openers diazoxide and nicorandil lower intraocular pressure by activating the Erk1/2 signaling pathway. PLoS ONE, 2017, 12, e0179345.	2.5	11
42	Stanniocalcin-1 is a Modifier of Oxygen-Induced Retinopathy Severity. Current Eye Research, 2020, 45, 46-51.	1.5	11
43	Intraocular Pressure Measurement with Pneumatometry and a Tonometer Tip Cover. Ophthalmology and Therapy, 2020, 9, 127-137.	2.3	10
44	Pharmacological Profile and Ocular Hypotensive Effects of Cromakalim Prodrug 1, a Novel ATP-Sensitive Potassium Channel Opener, in Normotensive Dogs and Nonhuman Primates. Journal of Ocular Pharmacology and Therapeutics, 2021, 37, 251-260.	1.4	10
45	Long-term photoreceptor rescue in two rodent models of retinitis pigmentosa by adeno-associated virus delivery of Stanniocalcin-1. Experimental Eye Research, 2017, 165, 175-181.	2.6	9
46	Effects of Intense Pulsed Light on Tear Film TGF- $\beta$ 2 and Microbiome in Ocular Rosacea with Dry Eye. Clinical Ophthalmology, 2021, Volume 15, 323-330.	1.8	9
47	Pharmacological and pharmacokinetic profile of the novel ocular hypotensive prodrug CKLP1 in Dutch-belted pigmented rabbits. PLoS ONE, 2020, 15, e0231841.	2.5	8
48	Intracranial Pressure and Its Relationship to Glaucoma: Current Understanding and Future Directions. Medical Hypothesis, Discovery, and Innovation in Ophthalmology, 2015, 4, 71-80.	0.2	8
49	Characterization of the Felix domesticus (cat) glaucoma-associated protein myocilin. Experimental Eye Research, 2006, 82, 1037-1045.	2.6	7
50	Recent Developments in Understanding the Role of Aqueous Humor Outflow in Normal and Primary Open Angle Glaucoma. Current Ophthalmology Reports, 2015, 3, 67-73.	1.2	7
51	Characterization of a dual media system for culturing primary normal and Fuchs endothelial corneal dystrophy (FECD) endothelial cells. PLoS ONE, 2021, 16, e0258006.	2.5	6
52	Epitope mapping of commercial antibodies that detect myocilin. Experimental Eye Research, 2018, 173, 109-112.	2.6	5
53	Stanniocalcin-1 (STC-1), a downstream effector molecule in latanoprost signaling, acts independent of the FP receptor for intraocular pressure reduction. PLoS ONE, 2020, 15, e0232591.	2.5	5
54	Disease Expression and Familial Transmission of Fuchs Endothelial Corneal Dystrophy With and Without CTG18.1 Expansion. , 2021, 62, 17.		5

#	ARTICLE	IF	CITATIONS
55	Comparison of TCF4 repeat expansion length in corneal endothelium and leukocytes of patients with Fuchs endothelial corneal dystrophy. PLoS ONE, 2021, 16, e0260837.	2.5	5
56	Stanniocalcin-1 Reduced Intraocular Pressure in Two Models of Ocular Hypertension. Current Eye Research, 2021, 46, 1525-1530.	1.5	4
57	Effect of ATP-sensitive Potassium Channel Openers on Intraocular Pressure in Ocular Hypertensive Animal Models. , 2022, 63, 15.		4
58	ATP sensitive potassium channel openers: A new class of ocular hypotensive agents. Experimental Eye Research, 2019, 178, 225.	2.6	3
59	Cancer Risk in Patients With Fuchs Endothelial Corneal Dystrophy. Cornea, 2022, 41, 1088-1093.	1.7	3
60	Ocular Hypotensive Properties and Biochemical Profile of QLS-101, a Novel ATP-Sensitive Potassium (K <sub>ATP</sub> ) Channel Opening Prodrug. , 2022, 63, 26.		3
61	Three-Decade Evaluation of Cerebrospinal Fluid Pressure in Open-Angle Glaucoma at a Tertiary Care Center. Journal of Ophthalmology, 2020, 2020, 1-8.	1.3	2
62	Isolation and characterization of novel primary cells from the human distal outflow pathway. Scientific Reports, 2021, 11, 4034.	3.3	1
63	Relationship of Body Mass Index With Fuchs Endothelial Corneal Dystrophy Severity and TCF4 CTG18.1 Trinucleotide Repeat Expansion. Cornea, 2021, Publish Ahead of Print, 1567-1570.	1.7	1
64	Transgene expression of Stanniocalcin-1 provides sustained intraocular pressure reduction by increasing outflow facility. PLoS ONE, 2022, 17, e0269261.	2.5	1
65	Microscopy in the Study of the Eye Disease Glaucoma. Microscopy and Microanalysis, 2016, 22, 1194-1195.	0.4	0
66	RE: "Letter to the Editor concerning Roddy et al. Exp Eye Res 165:175-181, 2017". Experimental Eye Research, 2018, 169, 173.	2.6	0
67	Title is missing!. , 2020, 15, e0231841.		0
68	Title is missing!. , 2020, 15, e0231841.		0
69	Title is missing!. , 2020, 15, e0231841.		0
70	Title is missing!. , 2020, 15, e0231841.		0
71	Title is missing!. , 2020, 15, e0232591.		0
72	Title is missing!. , 2020, 15, e0232591.		0

#	ARTICLE	IF	CITATIONS
73	Title is missing!. , 2020, 15, e0232591.		0
74	Title is missing!. , 2020, 15, e0232591.		0