

# Sven Schnichels

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/3537627/publications.pdf>

Version: 2024-02-01

60  
papers

1,608  
citations

430874

18  
h-index

330143

37  
g-index

65  
all docs

65  
docs citations

65  
times ranked

2038  
citing authors

#	ARTICLE	IF	CITATIONS
1	A swarm of slippery micropropellers penetrates the vitreous body of the eye. <i>Science Advances</i> , 2018, 4, eaat4388.	10.3	402
2	The histone acetyltransferase p300 promotes intrinsic axonal regeneration. <i>Brain</i> , 2011, 134, 2134-2148.	7.6	138
3	Retina in a dish: Cell cultures, retinal explants and animal models for common diseases of the retina. <i>Progress in Retinal and Eye Research</i> , 2021, 81, 100880.	15.5	71
4	DNA nanoparticles for ophthalmic drug delivery. <i>Biomaterials</i> , 2018, 157, 98-106.	11.4	69
5	Electrophysiological and Histologic Assessment of Retinal Ganglion Cell Fate in a Mouse Model for <i>OPA1</i> -Associated Autosomal Dominant Optic Atrophy. , 2010, 51, 1424.		62
6	Comparative toxicity and proliferation testing of aflibercept, bevacizumab and ranibizumab on different ocular cells. <i>British Journal of Ophthalmology</i> , 2013, 97, 917-923.	3.9	55
7	Loss of retinal function in aged DBA/2J mice – New insights into retinal neurodegeneration. <i>Experimental Eye Research</i> , 2010, 91, 779-783.	2.6	43
8	Efficacy of two different thiol-modified crosslinked hyaluronate formulations as vitreous replacement compared to silicone oil in a model of retinal detachment. <i>PLoS ONE</i> , 2017, 12, e0172895.	2.5	39
9	A Novel Porcine Ex Vivo Retina Culture Model for Oxidative Stress Induced by H <sub>2</sub> O <sub>2</sub> . <i>ATLA Alternatives To Laboratory Animals</i> , 2017, 45, 11-25.	1.0	36
10	GDF-15: a novel serum marker for metastases in uveal melanoma patients. <i>Graefe's Archive for Clinical and Experimental Ophthalmology</i> , 2012, 250, 887-895.	1.9	34
11	Investigation of a novel implantable suprachoroidal pressure transducer for telemetric intraocular pressure monitoring. <i>Experimental Eye Research</i> , 2016, 151, 54-60.	2.6	29
12	Degenerative effects of cobalt-chloride treatment on neurons and microglia in a porcine retina organ culture model. <i>Experimental Eye Research</i> , 2017, 155, 107-120.	2.6	29
13	Retinal Organ Cultures as Alternative Research Models. <i>ATLA Alternatives To Laboratory Animals</i> , 2019, 47, 19-29.	1.0	28
14	Ex vivo biophysical characterization of a hydrogel-based artificial vitreous substitute. <i>PLoS ONE</i> , 2019, 14, e0209217.	2.5	28
15	Toxic effects of melphalan, topotecan and carboplatin on retinal pigment epithelial cells. <i>Acta Ophthalmologica</i> , 2016, 94, 471-478.	1.1	26
16	Improved Treatment Options for Glaucoma with Brimonidine-Loaded Lipid DNA Nanoparticles. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 9445-9456.	8.0	24
17	Topical Drug Delivery to the Posterior Segment of the Eye. <i>Pharmaceutics</i> , 2022, 14, 134.	4.5	24
18	Diminished apoptosis in hypoxic porcine retina explant cultures through hypothermia. <i>Scientific Reports</i> , 2019, 9, 4898.	3.3	22

#	ARTICLE	IF	CITATIONS
19	Self-assembled DNA nanoparticles loaded with travoprost for glaucoma-treatment. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2020, 29, 102260.	3.3	22
20	Hypothermia Protects and Prolongs the Tolerance Time of Retinal Ganglion Cells against Ischemia. <i>PLoS ONE</i> , 2016, 11, e0148616.	2.5	19
21	Establishment of a retinal hypoxia organ culture model. <i>Biology Open</i> , 2017, 6, 1056-1064.	1.2	18
22	Ultrastructural analysis of the pigment dispersion syndrome in DBA/2J mice. <i>Graefe's Archive for Clinical and Experimental Ophthalmology</i> , 2009, 247, 1493-1504.	1.9	17
23	Different spatial and temporal protein expressions of repulsive guidance molecule a and neogenin in the rat optic nerve after optic nerve crush with and without lens injury. <i>Journal of Neuroscience Research</i> , 2011, 89, 490-505.	2.9	17
24	The Novel Induction of Retinal Ganglion Cell Apoptosis in Porcine Organ Culture by NMDA – An Opportunity for the Replacement of Animals in Experiments. <i>ATLA Alternatives To Laboratory Animals</i> , 2016, 44, 557-568.	1.0	17
25	iNOS-inhibitor driven neuroprotection in a porcine retina organ culture model. <i>Journal of Cellular and Molecular Medicine</i> , 2020, 24, 4312-4323.	3.6	17
26	Purkinje cell survival in organotypic cultures: Implication of Rho and its downstream effector ROCK. <i>Journal of Neuroscience Research</i> , 2008, 86, 531-536.	2.9	16
27	Biocompatibility and Antifibrotic Effect of LIV-Cross-Linked Hyaluronate as a Release-System for Tranilast after Trabeculectomy in a Rabbit Model – a Pilot Study. <i>Current Eye Research</i> , 2012, 37, 463-470.	1.5	16
28	Hypothermia protects retinal ganglion cells against hypoxia-induced cell death in a retina organ culture model. <i>Clinical and Experimental Ophthalmology</i> , 2019, 47, 1043-1054.	2.6	16
29	Trichostatin A induces cell death at the concentration recommended to differentiate the RGC-5 cell line. <i>Neurochemistry International</i> , 2012, 60, 581-591.	3.8	15
30	Can SARS-CoV-2 infect the eye? An overview of the receptor status in ocular tissue. <i>Ophthalmologie</i> , 2021, 118, 81-84.	1.1	14
31	Electrophysiological toxicity testing of VEGF Trap-Eye in an isolated perfused vertebrate retina organ culture model. <i>Acta Ophthalmologica</i> , 2014, 92, e305-11.	1.1	13
32	Glutamate and Hypoxia as a Stress Model for the Isolated Perfused Vertebrate Retina. <i>Journal of Visualized Experiments</i> , 2015, , .	0.3	13
33	Ex-vivo -examination of ultrastructural changes in organotypic retina culture using near-infrared imaging and optical coherence tomography. <i>Experimental Eye Research</i> , 2016, 147, 31-36.	2.6	13
34	Negative Effects of Acid Violet-17 and MBB Dual In Vitro on Different Ocular Cell Lines. <i>Current Eye Research</i> , 2017, 42, 1209-1214.	1.5	12
35	Novel mouse model for primary uveal melanoma: a pilot study. <i>Clinical and Experimental Ophthalmology</i> , 2017, 45, 192-200.	2.6	11
36	Gene expression of the repulsive guidance molecules/neogenin in the developing and mature mouse visual system: C57BL/6J vs. the glaucoma model DBA/2J. <i>Gene Expression Patterns</i> , 2007, 8, 1-11.	0.8	10

#	ARTICLE	IF	CITATIONS
37	RGMA and neogenin protein expression are influenced by lens injury following optic nerve crush in the rat retina. Graefe's Archive for Clinical and Experimental Ophthalmology, 2012, 250, 39-50.	1.9	10
38	Novel Porcine Retina Cultivation Techniques Provide Improved Photoreceptor Preservation. Frontiers in Neuroscience, 2020, 14, 556700.	2.8	10
39	Reduced Retinal Degeneration in an Oxidative Stress Organ Culture Model through an iNOS-Inhibitor. Biology, 2021, 10, 383.	2.8	10
40	Organ Cultures for Retinal Diseases. Frontiers in Neuroscience, 2020, 14, 583392.	2.8	9
41	Oxidative stress-induced retinal damage is prevented by mild hypothermia in an ex vivo model of cultivated porcine retinas. Clinical and Experimental Ophthalmology, 2020, 48, 666-681.	2.6	9
42	Testing the Biocompatibility of a Glutathione-containing Intraocular Irrigation Solution by Using an Isolated Perfused Bovine Retina Organ Culture Model – an Alternative to Animal Testing. ATLA Alternatives To Laboratory Animals, 2012, 40, 23-32.	1.0	8
43	Staurosporine-induced differentiation of the RGC-5 cell line leads to apoptosis and cell death at the lowest differentiating concentration. Graefe's Archive for Clinical and Experimental Ophthalmology, 2012, 250, 1221-1229.	1.9	8
44	Investigating retinal toxicity of tempol in a model of isolated and perfused bovine retina. Graefe's Archive for Clinical and Experimental Ophthalmology, 2014, 252, 935-941.	1.9	8
45	Characterization of a Standardized Ex-vivo Porcine Model to Assess Short Term Intraocular Pressure Changes and Trabecular Meshwork Vitality After Pars Plana Vitrectomy with Different Silicone Oil and BSS Tamponades. Current Eye Research, 2017, 42, 1130-1135.	1.5	8
46	Corneal Penetration of Low-Dose Atropine Eye Drops. Journal of Clinical Medicine, 2021, 10, 588.	2.4	8
47	NEUROPROTECTIVE EFFECTS OF A TAURINE-CONTAINING IRRIGATION SOLUTION FOR VITRECTOMY. Retina, 2012, 32, 1343-1349.	1.7	7
48	Dulbecco's Modified Eagle Medium is neuroprotective when compared to standard vitrectomy irrigation solution. Graefe's Archive for Clinical and Experimental Ophthalmology, 2013, 251, 1613-1619.	1.9	7
49	Cyclosporine A Protects RGC-5 Cells From Excitotoxic Cell Death. Journal of Glaucoma, 2014, 23, 219-224.	1.6	7
50	Cyclosporine A Protects Retinal Explants against Hypoxia. International Journal of Molecular Sciences, 2021, 22, 10196.	4.1	7
51	Integrin inhibitor (CLT28643) effective in rabbit trabeculectomy model. Acta Ophthalmologica, 2017, 95, e1-e9.	1.1	6
52	Long-Term Biocompatibility of a Highly Viscously Thiol-Modified Cross-Linked Hyaluronate as a Novel Vitreous Body Substitute. Frontiers in Pharmacology, 2022, 13, 817353.	3.5	6
53	Comparison of Different Cell Culture Media in the Model of the Isolated and Superfused Bovine Retina: Investigating the Limits of More Physiological Perfusion Solutions. Current Eye Research, 2018, 43, 232-243.	1.5	5
54	The inducible nitric oxide synthase-inhibitor 1400W as a potential treatment for retinal diseases. Neural Regeneration Research, 2021, 16, 1221.	3.0	5

#	ARTICLE	IF	CITATIONS
55	Coculture of ARPE-19 Cells and Porcine Neural Retina as an <i>Ex Vivo</i> Retinal Model. <i>ATLA Alternatives To Laboratory Animals</i> , 2022, 50, 27-44.	1.0	4
56	Porcine Corneas Incubated at Low Humidity Present Characteristic Features Found in Dry Eye Disease. <i>International Journal of Molecular Sciences</i> , 2022, 23, 4567.	4.1	3
57	Investigating short-term toxicity of melphalan in a model of an isolated and superfused bovine retina. <i>Graefe's Archive for Clinical and Experimental Ophthalmology</i> , 2016, 254, 91-96.	1.9	2
58	Impact of Primary RPE Cells in a Porcine Organotypic Co-Cultivation Model. <i>Biomolecules</i> , 2022, 12, 990.	4.0	2
59	Investigating retinal toxicity of a lutein-based dye in a model of isolated and perfused bovine retina. <i>Graefe's Archive for Clinical and Experimental Ophthalmology</i> , 2019, 257, 961-966.	1.9	1
60	Testing for SARS-CoV-2 seroprevalence: experiences of a tertiary eye centre. <i>BMJ Open Ophthalmology</i> , 2021, 6, e000688.	1.6	0