

# Sven Schnichels

## List of Publications by Year in descending order

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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	Topical Drug Delivery to the Posterior Segment of the Eye. <i>Pharmaceutics</i> , 2022, 14, 134.	4.5	24
2	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
3	Long-Term Biocompatibility of a Highly Viscously Thiol-Modified Cross-Linked Hyaluronate as a Novel Vitreous Body Substitute. <i>Frontiers in Pharmacology</i> , 2022, 13, 817353.	3.5	6
4	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
5	Impact of Primary RPE Cells in a Porcine Organotypic Co-Cultivation Model. <i>Biomolecules</i> , 2022, 12, 990.	4.0	2
6	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
7	Can SARS-CoV-2 infect the eye? An overview of the receptor status in ocular tissue. <i>Ophthalmology</i> , 2021, 118, 81-84.	1.1	14
8	The inducible nitric oxide synthase-inhibitor 1400W as a potential treatment for retinal diseases. <i>Neural Regeneration Research</i> , 2021, 16, 1221.	3.0	5
9	Corneal Penetration of Low-Dose Atropine Eye Drops. <i>Journal of Clinical Medicine</i> , 2021, 10, 588.	2.4	8
10	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
11	Testing for SARS-CoV-2 seroprevalence: experiences of a tertiary eye centre. <i>BMJ Open Ophthalmology</i> , 2021, 6, e000688.	1.6	0
12	Reduced Retinal Degeneration in an Oxidative Stress Organ Culture Model through an iNOS-Inhibitor. <i>Biology</i> , 2021, 10, 383.	2.8	10
13	Cyclosporine A Protects Retinal Explants against Hypoxia. <i>International Journal of Molecular Sciences</i> , 2021, 22, 10196.	4.1	7
14	Organ Cultures for Retinal Diseases. <i>Frontiers in Neuroscience</i> , 2020, 14, 583392.	2.8	9
15	Novel Porcine Retina Cultivation Techniques Provide Improved Photoreceptor Preservation. <i>Frontiers in Neuroscience</i> , 2020, 14, 556700.	2.8	10
16	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
17	Self-assembled DNA nanoparticles loaded with travoprost for glaucoma-treatment. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2020, 29, 102260.	3.3	22
18	Oxidative stress-induced retinal damage is prevented by mild hypothermia in an ex vivo model of cultivated porcine retinas. <i>Clinical and Experimental Ophthalmology</i> , 2020, 48, 666-681.	2.6	9

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19	Retinal Organ Cultures as Alternative Research Models. <i>ATLA Alternatives To Laboratory Animals</i> , 2019, 47, 19-29.	1.0	28
20	Ex vivo biophysical characterization of a hydrogel-based artificial vitreous substitute. <i>PLoS ONE</i> , 2019, 14, e0209217.	2.5	28
21	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
22	Diminished apoptosis in hypoxic porcine retina explant cultures through hypothermia. <i>Scientific Reports</i> , 2019, 9, 4898.	3.3	22
23	Investigating retinal toxicity of a lutein-based dye in a model of isolated and perfused bovine retina. <i>Graefes's Archive for Clinical and Experimental Ophthalmology</i> , 2019, 257, 961-966.	1.9	1
24	DNA nanoparticles for ophthalmic drug delivery. <i>Biomaterials</i> , 2018, 157, 98-106.	11.4	69
25	Comparison of Different Cell Culture Media in the Model of the Isolated and Superfused Bovine Retina: Investigating the Limits of More Physiological Perfusion Solutions. <i>Current Eye Research</i> , 2018, 43, 232-243.	1.5	5
26	A swarm of slippery micropellers penetrates the vitreous body of the eye. <i>Science Advances</i> , 2018, 4, eaat4388.	10.3	402
27	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
28	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. <i>Current Eye Research</i> , 2017, 42, 1130-1135.	1.5	8
29	Negative Effects of Acid Violet-17 and MBB Dual <i>In Vitro</i> on Different Ocular Cell Lines. <i>Current Eye Research</i> , 2017, 42, 1209-1214.	1.5	12
30	Establishment of a retinal hypoxia organ culture model. <i>Biology Open</i> , 2017, 6, 1056-1064.	1.2	18
31	Novel mouse model for primary uveal melanoma: a pilot study. <i>Clinical and Experimental Ophthalmology</i> , 2017, 45, 192-200.	2.6	11
32	Integrin inhibitor (CLT-28643) effective in rabbit trabeculectomy model. <i>Acta Ophthalmologica</i> , 2017, 95, e1-e9.	1.1	6
33	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
34	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
35	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
36	Toxic effects of melphalan, topotecan and carboplatin on retinal pigment epithelial cells. <i>Acta Ophthalmologica</i> , 2016, 94, 471-478.	1.1	26

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37	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
38	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
39	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
40	Hypothermia Protects and Prolongs the Tolerance Time of Retinal Ganglion Cells against Ischemia. <i>PLoS ONE</i> , 2016, 11, e0148616.	2.5	19
41	Glutamate and Hypoxia as a Stress Model for the Isolated Perfused Vertebrate Retina. <i>Journal of Visualized Experiments</i> , 2015, , .	0.3	13
42	Cyclosporine A Protects RGC-5 Cells From Excitotoxic Cell Death. <i>Journal of Glaucoma</i> , 2014, 23, 219-224.	1.6	7
43	Electrophysiological toxicity testing of <scp>VEGF</scp> Trapâ€Eye in an isolated perfused vertebrate retina organ culture model. <i>Acta Ophthalmologica</i> , 2014, 92, e305-11.	1.1	13
44	Investigating retinal toxicity of tempol in a model of isolated and perfused bovine retina. <i>Graefe's Archive for Clinical and Experimental Ophthalmology</i> , 2014, 252, 935-941.	1.9	8
45	Dulbeccoâ€™s Modified Eagle Medium is neuroprotective when compared to standard vitrectomy irrigation solution. <i>Graefe's Archive for Clinical and Experimental Ophthalmology</i> , 2013, 251, 1613-1619.	1.9	7
46	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
47	NEUROPROTECTIVE EFFECTS OF A TAURINE-CONTAINING IRRIGATION SOLUTION FOR VITRECTOMY. <i>Retina</i> , 2012, 32, 1343-1349.	1.7	7
48	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
49	Biocompatibility and Antifibrotic Effect of UV-Cross-Linked Hyaluronate as a Release-System for Tranilast after Trabeculectomy in a Rabbit Modelâ€a Pilot Study. <i>Current Eye Research</i> , 2012, 37, 463-470.	1.5	16
50	Testing the Biocompatibility of a Glutathione-containing Intraocular Irrigation Solution by Using an Isolated Perfused Bovine Retina Organ Culture Model â€” an Alternative to Animal Testing. <i>ATLA Alternatives To Laboratory Animals</i> , 2012, 40, 23-32.	1.0	8
51	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
52	Staurosporine-induced differentiation of the RGC-5 cell line leads to apoptosis and cell death at the lowest differentiating concentration. <i>Graefe's Archive for Clinical and Experimental Ophthalmology</i> , 2012, 250, 1221-1229.	1.9	8
53	RGMA and neogenin protein expression are influenced by lens injury following optic nerve crush in the rat retina. <i>Graefe's Archive for Clinical and Experimental Ophthalmology</i> , 2012, 250, 39-50.	1.9	10
54	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

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55	The histone acetyltransferase p300 promotes intrinsic axonal regeneration. <i>Brain</i> , 2011, 134, 2134-2148.	7.6	138
56	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
57	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
58	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
59	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
60	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