Serge A Picaud

List of Publications by Year
in descending order

178	9,359	39113	56606
papers	citations	52 h-index	87 g-index

191	191	191	10727
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	InÂvivo optogenetic stimulation of the primate retina activates the visual cortex after long-term transduction. Molecular Therapy - Methods and Clinical Development, 2022, 24, 1-10.	1.8	13
2	Vision Restoration by Optogenetic Therapy and Developments Toward Sonogenetic Therapy. Translational Vision Science and Technology, 2022, 11, 18.	1.1	9
3	Planar polarity in primate cone photoreceptors: a potential role in Stiles Crawford effect phototropism. Communications Biology, 2022, 5, 89.	2.0	11
4	Failed remyelination of the nonhuman primate optic nerve leads to axon degeneration, retinal damages, and visual dysfunction. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, e2115973119.	3.3	11
5	Glial Cell Activation and Oxidative Stress in Retinal Degeneration Induced by Î²-Alanine Caused Taurine Depletion and Light Exposure. International Journal of Molecular Sciences, 2022, 23, 346.	1.8	8
6	Nonretinoid chaperones improve rhodopsin homeostasis in a mouse model of retinitis pigmentosa. JCI Insight, 2022, 7, .	2.3	6
7	Novel Graphene Electrode for Retinal Implants: An in vivo Biocompatibility Study. Frontiers in Neuroscience, 2021, 15, 615256.	1.4	12
8	Control of Microbial Opsin Expression in Stem Cell Derived Cones for Improved Outcomes in Cell Therapy. Frontiers in Cellular Neuroscience, 2021, 15, 648210.	1.8	10
9	Partial recovery of visual function in a blind patient after optogenetic therapy. Nature Medicine, 2021, 27, 1223-1229.	15.2	335
10	Implication of folate deficiency in CYP2U1 loss of function. Journal of Experimental Medicine, 2021, 218, .	4.2	13
11	Substantial restoration of night vision in adult mice with congenital stationary night blindness. Molecular Therapy - Methods and Clinical Development, 2021, 22, 15-25.	1.8	10
12	Assessing Photoreceptor Status in Retinal Dystrophies: From High-Resolution Imaging to Functional Vision. American Journal of Ophthalmology, 2021, 230, 12-47.	1.7	19
13	Optogenetic therapy: high spatiotemporal resolution and pattern discrimination compatible with vision restoration in non-human primates. Communications Biology, 2021, 4, 125.	2.0	65
14	Tissue engineering of retina through high resolution 3-dimensional inkjet bioprinting. Biofabrication, 2020, 12, 025006.	3.7	59
15	IL-1Î² induces rod degeneration through the disruption of retinal glutamate homeostasis. Journal of Neuroinflammation, 2020, 17, 1.	3.1	172
16	Behavioural responses to a photovoltaic subretinal prosthesis implanted in non-human primates. Nature Biomedical Engineering, 2020, 4, 172-180.	11.6	55
17	Towards optogenetic vision restoration with high resolution. PLoS Computational Biology, 2020, 16, e1007857.	1.5	20
18	VEGF is an autocrine/paracrine neuroprotective factor for injured retinal ganglion neurons. Scientific Reports, 2020, 10, 12409.	1.6	48

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19	Phototoxic damage to cone photoreceptors can be independent of the visual pigment: the porphyrin hypothesis. Cell Death and Disease, 2020, 11, 711.	2.7	16
20	Bilateral visual improvement with unilateral gene therapy injection for Leber hereditary optic neuropathy. Science Translational Medicine, 2020, 12, .	5.8	128
21	Impact of the COVID-19 lockdown on basic science research in ophthalmology: the experience of a highly specialized research facility in France. Eye, 2020, 34, 1187-1188.	1.1	15
22	Functional ultrasound imaging of deep visual cortex in awake nonhuman primates. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 14453-14463.	3.3	44
23	Impedance spectroscopy study of the retinal pigment epithelium: Application to the monitoring of blue light exposure effect on A2E-loaded in-vitro cell cultures. Biosensors and Bioelectronics, 2020, 161, 112180.	5.3	6
24	PRIMA subretinal wireless photovoltaic microchip implantation in non-human primate and feline models. PLoS ONE, 2020, 15, e0230713.	1.1	7
25	Towards optogenetic vision restoration with high resolution. , 2020, 16, e1007857.		0
26	Towards optogenetic vision restoration with high resolution. , 2020, 16, e1007857.		0
27	Towards optogenetic vision restoration with high resolution. , 2020, 16, e1007857.		0
28	Towards optogenetic vision restoration with high resolution. , 2020, 16, e1007857.		0
29	Towards optogenetic vision restoration with high resolution. , 2020, 16, e1007857.		0
30	Towards optogenetic vision restoration with high resolution. , 2020, 16, e1007857.		0
31	Blue-violet light decreases VEGFa production in an in vitro model of AMD. PLoS ONE, 2019, 14, e0223839.	1.1	10
32	Protuberant Electrode Structures for Subretinal Electrical Stimulation: Modeling, Fabrication and in vivo Evaluation. Frontiers in Neuroscience, 2019, 13, 885.	1.4	6
33	Î²-alanine supplementation induces taurine depletion and causes alterations of the retinal nerve fiber layer and axonal transport by retinal ganglion cells. Experimental Eye Research, 2019, 188, 107781.	1.2	21
34	Restoration of visual function by transplantation of optogenetically engineered photoreceptors. Nature Communications, 2019, 10, 4524.	5.8	92
35	Carotenoid composition and conformation in retinal oil droplets of the domestic chicken*. PLoS ONE, 2019, 14, e0217418.	1.1	5
36	Evidence for functional GABA_A but not GABA_C receptors in mouse cone photoreceptors. Visual Neuroscience, 2019, 36, E005.	0.5	5

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37	Functional ultrasound imaging of the brain reveals propagation of task-related brain activity in behaving primates. Nature Communications, 2019, 10, 1400.	5.8	90
38	A biophysical model explains the spontaneous bursting behavior in the developing retina. Scientific Reports, 2019, 9, 1859.	1.6	9
39	The primate model for understanding and restoring vision. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 26280-26287.	3.3	73
40	Light action spectrum on oxidative stress and mitochondrial damage in A2E-loaded retinal pigment epithelium cells. Cell Death and Disease, 2018, 9, 287.	2.7	92
41	Cone degeneration is triggered by the absence of USH1 proteins but prevented by antioxidant treatments. Scientific Reports, 2018, 8, 1968.	1.6	29
42	Retinal Prostheses: Other Therapies and Future Directions. Essentials in Ophthalmology, 2018, , 105-125.	0.0	1
43	Noninvasive gene delivery to foveal cones for vision restoration. JCI Insight, 2018, 3, .	2.3	102
44	Panton-Valentine Leucocidin Proves Direct Neuronal Targeting and Its Early Neuronal and Glial Impacts a Rabbit Retinal Explant Model. Toxins, 2018, 10, 455.	1.5	5
45	Highâ€Frequency Stimulation of Normal and Blind Mouse Retinas Using TiO₂ Nanotubes. Advanced Functional Materials, 2018, 28, 1804639.	7.8	13
46	Taurine Depletion Causes ipRGC Loss and Increases Light-Induced Photoreceptor Degeneration. , 2018, 59, 1396.		32
47	A spike sorting toolbox for up to thousands of electrodes validated with ground truth recordings in vitro and in vivo. ELife, 2018, 7, .	2.8	251
48	Study of retinal alterations in a high fat diet-induced type ii diabetes rodent: Meriones shawi. Acta Histochemica, 2017, 119, 1-9.	0.9	14
49	Effect of hyaluronic acid-binding to lipoplexes on intravitreal drug delivery for retinal gene therapy. European Journal of Pharmaceutical Sciences, 2017, 103, 27-35.	1.9	31
50	3D functional ultrasound imaging of the cerebral visual system in rodents. NeuroImage, 2017, 149, 267-274.	2.1	82
51	Usher syndrome type 1â€“associated cadherins shape the photoreceptor outer segment. Journal of Cell Biology, 2017, 216, 1849-1864.	2.3	47
52	Col4a1 mutation generates vascular abnormalities correlated with neuronal damage in a mouse model of HANAC syndrome. Neurobiology of Disease, 2017, 100, 52-61.	2.1	9
53	Taurine Promotes Retinal Ganglion Cell Survival Through GABAB Receptor Activation. Advances in Experimental Medicine and Biology, 2017, 975 Pt 2, 687-701.	0.8	15
54	Toward smart design of retinal drug carriers: a novel bovine retinal explant model to study the barrier role of the vitreoretinal interface. Drug Delivery, 2017, 24, 1384-1394.	2.5	39

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55	Long-term expression of melanopsin and channelrhodopsin causes no gross alterations in the dystrophic dog retina. Gene Therapy, 2017, 24, 735-741.	2.3	10
56	A New Promoter Allows Optogenetic Vision Restoration with Enhanced Sensitivity in Macaque Retina. Molecular Therapy, 2017, 25, 2546-2560.	3.7	131
57	Multiplexed computations in retinal ganglion cells of a single type. Nature Communications, 2017, 8, 1964.	5.8	47
58	CIB2, defective in isolated deafness, is key for auditory hair cell mechanotransduction and survival. EMBO Molecular Medicine, 2017, 9, 1711-1731.	3.3	66
59	Pixium Vision: First Clinical Results and Innovative Developments. , 2017, , 99-113.		43
60	LRIT3 Differentially Affects Connectivity and Synaptic Transmission of Cones to ON- and OFF-Bipolar Cells. , 2017, 58, 1768.		25
61	Quantitative and Topographical Analysis of the Losses of Cone Photoreceptors and Retinal Ganglion Cells Under Taurine Depletion. , 2016, 57, 4692.		31
62	Probing the functional impact of sub-retinal prosthesis. ELife, 2016, 5, .	2.8	12
63	Redâ€shifted channelrhodopsin stimulation restores light responses in blind mice, macaque retina, and human retina. EMBO Molecular Medicine, 2016, 8, 1248-1264.	3.3	139
64	Emerging therapies for inherited retinal degeneration. Science Translational Medicine, 2016, 8, 368rv6.	5.8	179
65	Spatiotemporal response of rat visual cortex during moving stimuli using Functional Ultrasound (fUS) imaging. , 2016, , .		1
66	268. Optogenetic Engineering of Retinal Ganglion Cells with AAV2.7m8-ChrimsonR-tdTomato (GS030-DP) Is Well Tolerated and Induces Functional Responses to Light in Non-Human Primates. Molecular Therapy, 2016, 24, S106-S107.	3.7	9
67	Monitoring the evolution of boron doped porous diamond electrode on flexible retinal implant by OCT and in vivo impedance spectroscopy. Materials Science and Engineering C, 2016, 69, 77-84.	3.8	17
68	Mitochondrial Protection by Exogenous Otx2 in Mouse Retinal Neurons. Cell Reports, 2015, 13, 990-1002.	2.9	22
69	Intraocular pressure reduction and neuroprotection conferred by bone marrow-derived mesenchymal stem cells in an animal model of glaucoma. Stem Cell Research and Therapy, 2015, 6, 177.	2.4	70
70	Sildenafil Acutely Decreases Visual Responses in ON and OFF Retinal Ganglion Cells. , 2015, 56, 2639.		9
71	Structure and Conformation of the Carotenoids in Human Retinal Macular Pigment. PLoS ONE, 2015, 10, e0135779.	1.1	29
72	3D-nanostructured boron-doped diamond for microelectrode array neural interfacing. Biomaterials, 2015, 53, 173-183.	5.7	108

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73	Synthetic 3D diamond-based electrodes for flexible retinal neuroprostheses: Model, production and inÂvivo biocompatibility. Biomaterials, 2015, 67, 73-83.	5.7	53
74	Targeting Channelrhodopsin-2 to ON-bipolar Cells With Vitreally Administered AAV Restores ON and OFF Visual Responses in Blind Mice. Molecular Therapy, 2015, 23, 7-16.	3.7	166
75	Genotypic and Phenotypic Characterization of P23H Line 1 Rat Model. PLoS ONE, 2015, 10, e0127319.	1.1	51
76	Determination of Morphological, Biometric and Biochemical Susceptibilities in Healthy Eurasier Dogs with Suspected Inherited Glaucoma. PLoS ONE, 2014, 9, e111873.	1.1	15
77	Chapter 2 - Restoring Vision to the Blind: Optogenetics. Translational Vision Science and Technology, 2014, 3, 4.	1.1	8
78	Chapter 7- Restoring Vision to the Blind: Advancements in Vision Aids for the Visually Impaired. Translational Vision Science and Technology, 2014, 3, 9.	1.1	8
79	Taurine Deficiency and the Eye. , 2014, , 505-513.		4
80	Taurine: The comeback of a neutraceutical in the prevention of retinal degenerations. Progress in Retinal and Eye Research, 2014, 41, 44-63.	7.3	90
81	Graded Otx2 activities demonstrate dose-sensitive eye and retina phenotypes. Human Molecular Genetics, 2014, 23, 1742-1753.	1.4	38
82	Cell specific electrodes for neuronal network reconstruction and monitoring. Analyst, The, 2014, 139, 3281.	1.7	4
83	MISFET-based biosensing interface for neurons guided growth and neuronal electrical activities recording. Sensors and Actuators B: Chemical, 2014, 203, 375-381.	4.0	5
84	Boron doped diamond biotechnology: from sensors to neurointerfaces. Faraday Discussions, 2014, 172, 47-59.	1.6	36
85	Retinal prostheses: Clinical results and future challenges. Comptes Rendus - Biologies, 2014, 337, 214-222.	0.1	40
86	Distinctive Glial and Neuronal Interfacing on Nanocrystalline Diamond. PLoS ONE, 2014, 9, e92562.	1.1	37
87	Microglial activation in a rat model of NAION. Acta Ophthalmologica, 2014, 92, 0-0.	0.6	0
88	Functional rescue of cone photoreceptors in retinitis pigmentosa. Graefe's Archive for Clinical and Experimental Ophthalmology, 2013, 251, 1669-1677.	1.0	21
89	Neural stimulation for visual rehabilitation: Advances and challenges. Journal of Physiology (Paris), 2013, 107, 421-431.	2.1	45
90	Purified Neurons can Survive on Peptideâ€Free Graphene Layers. Advanced Healthcare Materials, 2013, 2, 929-933.	3.9	103

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91	Long-Term in vivo Impedance Changes of Subretinal Microelectrodes Implanted in Dystrophic P23H Rats. International Journal of Artificial Organs, 2013, 36, 612-619.	0.7	7
92	Evaluation of the Taurine Concentrations in Dog Plasma and Aqueous Humour: A Pilot Study. Advances in Experimental Medicine and Biology, 2013, 775, 145-154.	0.8	4
93	Taurine Is a Crucial Factor to Preserve Retinal Ganglion Cell Survival. Advances in Experimental Medicine and Biology, 2013, 775, 69-83.	0.8	26
94	Blue light toxic action spectrum on A2E-loaded RPE cells in sunlight normalized conditions. Acta Ophthalmologica, 2013, 91, 0-0.	0.6	1
95	Phototoxic Action Spectrum on a Retinal Pigment Epithelium Model of Age-Related Macular Degeneration Exposed to Sunlight Normalized Conditions. PLoS ONE, 2013, 8, e71398.	1.1	120
96	Minocycline as a new neuroprotective agent in a rodent model of NAION. Acta Ophthalmologica, 2013, 91, 0-0.	0.6	0
97	Importance of taurine in maintaining retinal function. Acta Ophthalmologica, 2013, 91, 0-0.	0.6	0
98	Analysis of retinal and cortical response to electrical stimulation by subretinal implant in rodent. Acta Ophthalmologica, 2013, 91, 0-0.	0.6	0
99	Multichannel Boron Doped Nanocrystalline Diamond Ultramicroelectrode Arrays: Design, Fabrication and Characterization. Sensors, 2012, 12, 7669-7681.	2.1	43
100	Artificial retina: the multichannel processing of the mammalian retina achieved with a neuromorphic asynchronous light acquisition device. Journal of Neural Engineering, 2012, 9, 066004.	1.8	46
101	Optogenetic therapy for retinitis pigmentosa. Gene Therapy, 2012, 19, 169-175.	2.3	207
102	NeuroPXI: A real-time multi-electrode array system for recording, processing and stimulation of neural networks and the control of high-resolution neural implants for rehabilitation. Irbm, 2012, 33, 55-60.	3.7	7
103	A passive pressure sensor for continuously measuring the intraocular pressure in glaucomatous patients. Irbm, 2012, 33, 117-122.	3.7	14
104	Taurine deficiency damages retinal neurones: cone photoreceptors and retinal ganglion cells. Amino Acids, 2012, 43, 1979-1993.	1.2	48
105	Use of a combined slitâ€lamp SDâ€OCT to obtain anterior and posterior segment images in selected animal species. Veterinary Ophthalmology, 2012, 15, 105-115.	0.6	22
106	CXCR3 Antagonism of SDF-1(5-67) Restores Trabecular Function and Prevents Retinal Neurodegeneration in a Rat Model of Ocular Hypertension. PLoS ONE, 2012, 7, e37873.	1.1	26
107	Taurine Provides Neuroprotection against Retinal Ganglion Cell Degeneration. PLoS ONE, 2012, 7, e42017.	1.1	74
108	Otx2 Promotes the Survival of Damaged Adult Retinal Ganglion Cells and Protects against Excitotoxic Loss of Visual AcuityIn Vivo. Journal of Neuroscience, 2011, 31, 5495-5503.	1.7	52

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109	Mammalian retinal horizontal cells are unconventional GABAergic neurons. Journal of Neurochemistry, 2011, 116, 350-362.	2.1	37
110	Processing of chromogranins/secretogranin in patients with diabetic retinopathy. Regulatory Peptides, 2011, 167, 118-124.	1.9	16
111	Light-emitting diodes (LED) for domestic lighting: Any risks for the eye?. Progress in Retinal and Eye Research, 2011, 30, 239-257.	7.3	319
112	Expression of Dystrophins and the Dystrophin-Associated-Protein Complex by Pituicytes in Culture. Neurochemical Research, 2011, 36, 1407-1416.	1.6	5
113	Simulations to study spatial extent of stimulation and effect of electrodeâ€“tissue gap in subretinal implants. Medical Engineering and Physics, 2011, 33, 755-763.	0.8	17
114	3D shaped mechanically flexible diamond microelectrode arrays for eye implant applications: The MEDINAS project. Irbm, 2011, 32, 91-94.	3.7	53
115	Gene Therapy in Ophthalmology: Validation on Cultured Retinal Cells and Explants from Postmortem Human Eyes. Human Gene Therapy, 2011, 22, 587-593.	1.4	44
116	Three-dimensional electrode arrays for retinal prostheses: modeling, geometry optimization and experimental validation. Journal of Neural Engineering, 2011, 8, 046020.	1.8	49
117	Late histological and functional changes in the P23H rat retina after photoreceptor loss. Neurobiology of Disease, 2010, 38, 47-58.	2.1	48
118	Microcebus murinus retina: A new model to assess prion-related neurotoxicity in primates. Neurobiology of Disease, 2010, 39, 211-220.	2.1	4
119	The disruption of the rod-derived cone viability gene leads to photoreceptor dysfunction and susceptibility to oxidative stress. Cell Death and Differentiation, 2010, 17, 1199-1210.	5.0	73
120	Cellular-resolution in vivo imaging of the feline retina using adaptive optics: preliminary results. Veterinary Ophthalmology, 2010, 13, 369-376.	0.6	7
121	Increased Vitreous Shedding of Microparticles in Proliferative Diabetic Retinopathy Stimulates Endothelial Proliferation. Diabetes, 2010, 59, 694-701.	0.3	65
122	Lack of Niemannâ€“Pick type C1 induces age-related degeneration in the mouse retina. Molecular and Cellular Neurosciences, 2010, 43, 164-176.	1.0	76
123	Taurine deficiency damages photoreceptors and retinal ganglion cells in vigabatrin-treated neonatal rats. Molecular and Cellular Neurosciences, 2010, 43, 414-421.	1.0	60
124	Genetic Reactivation of Cone Photoreceptors Restores Visual Responses in Retinitis Pigmentosa. Science, 2010, 329, 413-417.	6.0	578
125	Functional Cone Rescue by RdCVF Protein in a Dominant Model of Retinitis Pigmentosa. Molecular Therapy, 2009, 17, 787-795.	3.7	147
126	Taurine deficiency is a cause of vigabatrinâ€induced retinal phototoxicity. Annals of Neurology, 2009, 65, 98-107.	2.8	105

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127	A review of in vivo animal studies in retinal prosthesis research. Graefe's Archive for Clinical and Experimental Ophthalmology, 2008, 246, 1505-1517.	1.0	51
128	Optimized Allotopic Expression of the Human Mitochondrial ND4 Prevents Blindness in a Rat Model of Mitochondrial Dysfunction. American Journal of Human Genetics, 2008, 83, 373-387.	2.6	199
129	Treatment of epilepsy: the GABAâ€transaminase inhibitor, vigabatrin, induces neuronal plasticity in the mouse retina. European Journal of Neuroscience, 2008, 27, 2177-2187.	1.2	35
130	Retinal electrophysiology for toxicology studies: Applications and limits of ERG in animals and ex vivo recordings. Experimental and Toxicologic Pathology, 2008, 60, 17-32.	2.1	44
131	A Low-Cost and Simple Imaging Technique of the Anterior and Posterior Segments: Eye Fundus, Ciliary Bodies, Iridocorneal Angle. , 2008, 49, 5168.		27
132	The Toxicity of the PrP106-126 Prion Peptide on Cultured Photoreceptors Correlates with the Prion Protein Distribution in the Mammalian and Human Retina. American Journal of Pathology, 2007, 170, 1314-1324.	1.9	15
133	Retinal prosthesis : Testing prototypes on a dystrophic rat retina. , 2007, , .		0
134	Panretinal, High-Resolution Color Photography of the Mouse Fundus. , 2007, 48, 2769.		111
135	Bioluminescent imaging of Ca²⁺ activity reveals spatiotemporal dynamics in glial networks of darkâ€adapted mouse retina. Journal of Physiology, 2007, 583, 945-958.	1.3	26
136	Microglial changes occur without neural cell death in diabetic retinopathy. Vision Research, 2007, 47, 612-623.	0.7	121
137	Glycine receptors in a population of adult mammalian cones. Journal of Physiology, 2006, 571, 391-401.	1.3	18
138	The glutamate transporter EAAT5 works as a presynaptic receptor in mouse rod bipolar cells. Journal of Physiology, 2006, 577, 221-234.	1.3	93
139	High resolution fundus imaging by confocal scanning laser ophthalmoscopy in the mouse. Vision Research, 2006, 46, 1336-1345.	0.7	99
140	Distribution of vesicular glutamate transporters in rat and human retina. Brain Research, 2006, 1082, 73-85.	1.1	49
141	Glutamine-Expanded Ataxin-7 Alters TFTC/STAGA Recruitment and Chromatin Structure Leading to Photoreceptor Dysfunction. PLoS Biology, 2006, 4, e67.	2.6	143
142	Subretinal electrode implantation in the P23H rat for chronic stimulations. British Journal of Ophthalmology, 2006, 90, 1183-1187.	2.1	31
143	Excessive activation of cyclic nucleotide-gated channels contributes to neuronal degeneration of photoreceptors. European Journal of Neuroscience, 2005, 22, 1013-1022.	1.2	46
144	Diltiazem-induced Neuroprotection in Glutamate Excitotoxicity and Ischemic Insult of Retinal Neurons. Documenta Ophthalmologica, 2005, 110, 25-35.	1.0	26

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145	Voltage-Gated Channels and Calcium Homeostasis in Mammalian Rod Photoreceptors. Journal of Neurophysiology, 2005, 93, 1468-1475.	0.9	42
146	Purification of Mammalian Cone Photoreceptors by Lectin Panning and the Enhancement of Their Survival in Glia-Conditioned Medium. , 2005, 46, 367.		25
147	Retinal-Cellâ€“Conditioned Medium Prevents TNF-Î±-Induced Apoptosis of Purified Ganglion Cells. , 2005, 46, 2983.		55
148	Advanced glycation end products can induce glial reaction and neuronal degeneration in retinal explants. British Journal of Ophthalmology, 2005, 89, 1631-1633.	2.1	43
149	The sarcoglycanâ€“sarcospan complex localization in mouse retina is independent from dystrophins. Neuroscience Research, 2005, 53, 25-33.	1.0	16
150	The optomotor response: A robust first-line visual screening method for mice. Vision Research, 2005, 45, 1439-1446.	0.7	111
151	Molecular cloning and protein expression of Duchenne muscular dystrophy gene products in porcine retina. Neuromuscular Disorders, 2005, 15, 476-487.	0.3	9
152	Evidence for glutamate-mediated excitotoxic mechanisms during photoreceptor degeneration in the rd1 mouse retina. Molecular Vision, 2005, 11, 688-96.	1.1	55
153	Inherited retinal degenerations: therapeutic prospects. Biology of the Cell, 2004, 96, 261-269.	0.7	84
154	Vigabatrin, the GABA-transaminase inhibitor, damages cone photoreceptors in rats. Annals of Neurology, 2004, 55, 695-705.	2.8	68
155	Retinal Dystrophy Resulting from Ablation of RXRÎ± in the Mouse Retinal Pigment Epithelium. American Journal of Pathology, 2004, 164, 701-710.	1.9	28
156	Inherited retinal degenerations: therapeutic prospects. Biology of the Cell, 2004, 96, 261-269.	0.7	57
157	Leber Congenital Amaurosis â€" Genotyping Required for Possible Inclusion in a Clinical Trial. Advances in Experimental Medicine and Biology, 2003, 533, 69-77.	0.8	1
158	Progressive retinal degeneration and dysfunction in R6 Huntington's disease mice. Human Molecular Genetics, 2002, 11, 3351-3359.	1.4	81
159	Cellular localization of the vesicular inhibitory amino acid transporter in the mouse and human retina. Journal of Comparative Neurology, 2002, 449, 76-87.	0.9	41
160	Chapter 47 Rod-cone interdependence: implications for therapy of photoreceptor cell diseases. Progress in Brain Research, 2001, 131, 649-661.	0.9	40
161	Rodâ€“Cone Interactions:. Progress in Retinal and Eye Research, 2001, 20, 451-467.	7.3	77
162	Reply to Rod photoreceptor rescue or degeneration. Nature Medicine, 2000, 6, 116-116.	15.2	0

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163	GABAC Receptors Are Localized with Microtubule-Associated Protein 1B in Mammalian Cone Photoreceptors. Journal of Neuroscience, 2000, 20, 6789-6796.	1.7	64
164	Expanded polyglutamines induce neurodegeneration and trans-neuronal alterations in cerebellum and retina of SCA7 transgenic mice. Human Molecular Genetics, 2000, 9, 2491-2506.	1.4	160
165	Retinitis pigmentosa: rod photoreceptor rescue by a calcium-channel blocker in the rd mouse. Nature Medicine, 1999, 5, 1183-1187.	15.2	218
166	Cellular retinol-binding protein I is essential for vitamin A homeostasis. EMBO Journal, 1999, 18, 4903-4914.	3.5	271
167	GABAAand GABACreceptors in adult porcine cones: evidence from a photoreceptor-glia co-culture model. Journal of Physiology, 1998, 513, 33-42.	1.3	63
168	Postsynaptic Response Kinetics Are Controlled by a Glutamate Transporter at Cone Photoreceptors. Journal of Neurophysiology, 1998, 79, 190-196.	0.9	53
169	Human Usher 1B/mouse shaker-1: the retinal phenotype discrepancy explained by the presence/absence of myosin VIIA in the photoreceptor cells. Human Molecular Genetics, 1996, 5, 1171-1178.	1.4	144
170	Cone photoreceptors respond to their own glutamate release in the tiger salamander.. Proceedings of the National Academy of Sciences of the United States of America, 1995, 92, 9417-9421.	3.3	87
171	Dye-induced photolesion in the mammalian retina: Glial and neuronal reactions. Journal of Neuroscience Research, 1993, 35, 629-642.	1.3	7
172	Dye-induced photopermeabilization and photodegeneration: A lesion technique useful for neuronal tracing. Journal of Neuroscience Methods, 1990, 33, 101-112.	1.3	15
173	Dye-induced â€˜photo-degenerationâ€™ and â€˜photo-permeabilizationâ€™ of mammalian neurons in vivo. Brain Research, 1990, 531, 117-126.	1.1	5
174	Selective illumination of single photoreceptors in the house fly retina: local membrane turnover and uptake of extracellular horseradish peroxidase (HRP) and Lucifer Yellow. Cell and Tissue Research, 1989, 257, 565-576.	1.5	23
175	â€˜Photo-degenerationâ€™ of neurones after extracellular dye application. Neuroscience Letters, 1988, 95, 24-30.	1.0	11
176	Incorporation of chromaffin granule membranes into large-size vesicles suitable for patch-clamp recording. FEBS Letters, 1984, 178, 20-24.	1.3	10
177	A Promise of Vision Restoration. , 0, , 356-370.		0
178	Single and Multisite Grapheneâ€Based Electroretinography Recording Electrodes: A Benchmarking Study. Advanced Materials Technologies, 0, , 2101181.	3.0	1