Jeffrey L Goldberg

List of Publications by Year
in descending order

132 papers	8,024 citations	70961 41 h-index	54797 84 g-index
138 all docs	138 docs citations	138 times ranked	8035 citing authors

#	Article	IF	Citations
1	KLF Family Members Regulate Intrinsic Axon Regeneration Ability. Science, 2009, 326, 298-301.	6.0	654
2	EphA Receptors Regulate Growth Cone Dynamics through the Novel Guanine Nucleotide Exchange Factor Ephexin. Cell, 2001, 105, 233-244.	13.5	491
3	Amacrine-Signaled Loss of Intrinsic Axon Growth Ability by Retinal Ganglion Cells. Science, 2002, 296, 1860-1864.	6.0	453
4	Retinal Ganglion Cells Do Not Extend Axons by Default. Neuron, 2002, 33, 689-702.	3.8	406
5	Vision Loss after Intravitreal Injection of Autologous â€œStem Cellsâ€•for AMD. New England Journal of Medicine, 2017, 376, 1047-1053.	13.9	356
6	The Relationship between Neuronal Survival and Regeneration. Annual Review of Neuroscience, 2000, 23, 579-612.	5.0	309
7	KrÃ¼ppel-like Factor 7 engineered for transcriptional activation promotes axon regeneration in the adult corticospinal tract. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 7517-7522.	3.3	259
8	Glaucoma 2.0: Neuroprotection, Neuroregeneration, Neuroenhancement. Ophthalmology, 2012, 119, 979-986.	2.5	256
9	Eph-Dependent Tyrosine Phosphorylation of Ephexin1 Modulates Growth Cone Collapse. Neuron, 2005, 46, 191-204.	3.8	216
10	How does an axon grow?. Genes and Development, 2003, 17, 941-958.	2.7	198
11	Reaching the brain: Advances in optic nerve regeneration. Experimental Neurology, 2017, 287, 365-373.	2.0	173
12	An Oligodendrocyte Lineage-Specific Semaphorin, Sema5A, Inhibits Axon Growth by Retinal Ganglion Cells. Journal of Neuroscience, 2004, 24, 4989-4999.	1.7	167
13	Multiple transcription factor families regulate axon growth and regeneration. Developmental Neurobiology, 2011, 71, 1186-1211.	1.5	160
14	In vivo imaging of axonal transport of mitochondria in the diseased and aged mammalian CNS. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 10515-10520.	3.3	146
15	Transplanted neurons integrate into adult retinas and respond to light. Nature Communications, 2016, 7, 10472.	5.8	141
16	Regenerating Eye Tissues to Preserve and Restore Vision. Cell Stem Cell, 2018, 22, 834-849.	5.2	131
17	High content screening of cortical neurons identifies novel regulators of axon growth. Molecular and Cellular Neurosciences, 2010, 44, 43-54.	1.0	110
18	Axon Regeneration in the Mammalian Optic Nerve. Annual Review of Vision Science, 2020, 6, 195-213.	2.3	101

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19	KrÃ¼ppel-like transcription factors in the nervous system: Novel players in neurite outgrowth and axon regeneration. Molecular and Cellular Neurosciences, 2011, 47, 233-243.	1.0	93
20	Nanoparticle-mediated signaling endosome localization regulates growth cone motility and neurite growth. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 19042-19047.	3.3	92
21	Intrinsic neuronal regulation of axon and dendrite growth. Current Opinion in Neurobiology, 2004, 14, 551-557.	2.0	91
22	KLF9 and JNK3 Interact to Suppress Axon Regeneration in the Adult CNS. Journal of Neuroscience, 2017, 37, 9632-9644.	1.7	91
23	Solving neurodegeneration: common mechanisms and strategies for new treatments. Molecular Neurodegeneration, 2022, 17, 23.	4.4	83
24	Soluble Adenylyl Cyclase Activity Is Necessary for Retinal Ganglion Cell Survival and Axon Growth. Journal of Neuroscience, 2012, 32, 7734-7744.	1.7	80
25	Survival and Integration of Developing and Progenitor-Derived Retinal Ganglion Cells following Transplantation. Cell Transplantation, 2014, 23, 855-872.	1.2	80
26	Gamma-synuclein as a marker of retinal ganglion cells. Molecular Vision, 2008, 14, 1540-8.	1.1	75
27	Neurotrophic Effect of a Novel TrkB Agonist on Retinal Ganglion Cells. , 2010, 51, 1747.		72
28	Efficient Generation of Human Embryonic Stem Cell-Derived Corneal Endothelial Cells by Directed Differentiation. PLoS ONE, 2015, 10, e0145266.	1.1	71
29	Tissue engineering the retinal ganglion cell nerve fiber layer. Biomaterials, 2013, 34, 4242-4250.	5.7	69
30	Disease Gene Candidates Revealed by Expression Profiling of Retinal Ganglion Cell Development. Journal of Neuroscience, 2007, 27, 8593-8603.	1.7	67
31	Control of Retinal Ganglion Cell Positioning and Neurite Growth: Combining 3D Printing with Radial Electrospun Scaffolds. Tissue Engineering - Part A, 2016, 22, 286-294.	1.6	64
32	Evaluation of Magnetic Micro- and Nanoparticle Toxicity to Ocular Tissues. PLoS ONE, 2011, 6, e17452.	1.1	62
33	Zinc chelation and Klf9 knockdown cooperatively promote axon regeneration after optic nerve injury. Experimental Neurology, 2018, 300, 22-29.	2.0	62
34	Articular Cartilage Repair With Magnetic Mesenchymal Stem Cells. American Journal of Sports Medicine, 2013, 41, 1255-1264.	1.9	59
35	A Chemical Screen Identifies Novel Compounds That Overcome Glial-Mediated Inhibition of Neuronal Regeneration. Journal of Neuroscience, 2010, 30, 4693-4706.	1.7	55
36	Î²1 Integrin-Focal Adhesion Kinase (FAK) Signaling Modulates Retinal Ganglion Cell (RGC) Survival. PLoS ONE, 2012, 7, e48332.	1.1	54

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37	Four Steps to Optic Nerve Regeneration. Journal of Neuro-Ophthalmology, 2010, 30, 347-360.	0.4	53
38	Retinal ganglion cell polarization using immobilized guidance cues on a tissue-engineered scaffold. Acta Biomaterialia, 2014, 10, 4939-4946.	4.1	53
39	Mitochondrial Dynamics Regulate Growth Cone Motility, Guidance, and Neurite Growth Rate in Perinatal Retinal Ganglion Cells In Vitro. , 2012, 53, 7402.		51
40	Discovery and clinical translation of novel glaucoma biomarkers. Progress in Retinal and Eye Research, 2021, 80, 100875.	7.3	51
41	The KrÃ¼ppel-Like Factor Gene Target Dusp14 Regulates Axon Growth and Regeneration. , 2018, 59, 2736.		48
42	Silicone oil-induced ocular hypertension and glaucomatous neurodegeneration in mouse. ELife, 2019, 8, .	2.8	48
43	Scaffolds and stem cells: delivery of cell transplants for retinal degenerations. Expert Review of Ophthalmology, 2012, 7, 459-470.	0.3	46
44	Mouse Î³-Synuclein Promoter-Mediated Gene Expression and Editing in Mammalian Retinal Ganglion Cells. Journal of Neuroscience, 2020, 40, 3896-3914.	1.7	46
45	Electrical activity enhances neuronal survival and regeneration. Journal of Neural Engineering, 2009, 6, 055001.	1.8	45
46	Novel Regulatory Mechanisms for the SoxC Transcriptional Network Required for Visual Pathway Development. Journal of Neuroscience, 2017, 37, 4967-4981.	1.7	45
47	Topical administration of a Rock/Net inhibitor promotes retinal ganglion cell survival and axon regeneration after optic nerve injury. Experimental Eye Research, 2017, 158, 33-42.	1.2	45
48	Regulation of Intrinsic Axon Growth Ability at Retinal Ganglion Cell Growth Cones. , 2014, 55, 4369.		44
49	The Role of Serotonin in Axon and Dendrite Growth. International Review of Neurobiology, 2012, 106, 105-126.	0.9	42
50	Magnetic field-guided cell delivery with nanoparticle-loaded human corneal endothelial cells. Nanomedicine: Nanotechnology, Biology, and Medicine, 2015, 11, 499-509.	1.7	42
51	Isoform-specific subcellular localization and function of protein kinase A identified by mosaic imaging of mouse brain. ELife, 2017, 6, .	2.8	42
52	Neuroimmune Communication. Science, 2011, 334, 47-48.	6.0	41
53	Novel Identity and Functional Markers for Human Corneal Endothelial Cells. , 2016, 57, 2749.		38
54	Retinal repair with induced pluripotent stem cells. Translational Research, 2014, 163, 377-386.	2.2	37

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55	Gene Expression Profiling of Purified Rat Retinal Ganglion Cells. , 2004, 45, 2503.		36
56	Epigenetic regulation of axon and dendrite growth. Frontiers in Molecular Neuroscience, 2012, 5, 24.	1.4	36
57	Regulating Set-Î²'s Subcellular Localization Toggles Its Function between Inhibiting and Promoting Axon Growth and Regeneration. Journal of Neuroscience, 2014, 34, 7361-7374.	1.7	36
58	Induced Pluripotent Stem Cells Promote Retinal Ganglion Cell Survival After Transplant. , 2018, 59, 1571.		35
59	A Cell Culture Approach to Optimized Human Corneal Endothelial Cell Function. , 2018, 59, 1617.		35
60	Regulation of Neuronal Survival and Axon Growth by a Perinuclear cAMP Compartment. Journal of Neuroscience, 2019, 39, 5466-5480.	1.7	35
61	A novel biological function for CD44 in axon growth of retinal ganglion cells identified by a bioinformatics approach. Journal of Neurochemistry, 2007, 103, 1491-1505.	2.1	33
62	Nanotechnology for ocular therapeutics and tissue repair. Expert Review of Ophthalmology, 2008, 3, 431-436.	0.3	33
63	Optic Nerve Crush in Mice to Study Retinal Ganglion Cell Survival and Regeneration. Bio-protocol, 2020, 10, .	0.2	33
64	Atypical Mild Enhanced S-Cone Syndrome with Novel Compound Heterozygosity of the NR2E3 Gene. American Journal of Ophthalmology, 2007, 144, 157-159.	1.7	31
65	Cell transplantation of retinal ganglion cells derived from hESCs. Restorative Neurology and Neuroscience, 2020, 38, 131-140.	0.4	29
66	SALT Trial: Steroids after Laser Trabeculoplasty. Ophthalmology, 2019, 126, 1511-1516.	2.5	28
67	A chemical genetic approach identifies piperazine antipsychotics as promoters of CNS neurite growth on inhibitory substrates. Molecular and Cellular Neurosciences, 2012, 50, 125-135.	1.0	27
68	Regenerative Cell Therapy for Corneal Endothelium. Current Ophthalmology Reports, 2014, 2, 81-90.	0.5	27
69	Promoting filopodial elongation in neurons by membrane-bound magnetic nanoparticles. Nanomedicine: Nanotechnology, Biology, and Medicine, 2015, 11, 559-567.	1.7	27
70	Magnetic Human Corneal Endothelial Cell Transplant: Delivery, Retention, and Short-Term Efficacy. , 2019, 60, 2438.		27
71	Nanotechnology and glaucoma. Current Opinion in Ophthalmology, 2013, 24, 130-135.	1.3	26
72	Molecular mechanisms of the suppression of axon regeneration by KLF transcription factors. Neural Regeneration Research, 2014, 9, 1418.	1.6	26

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73	A Novel Rodent Model of Posterior Ischemic Optic Neuropathy. JAMA Ophthalmology, 2013, 131, 194.	1.4	25
74	Multi-Omic Analyses of Growth Cones at Different Developmental Stages Provides Insight into Pathways in Adult Neuroregeneration. IScience, 2020, 23, 100836.	1.9	25
75	A tunable synthetic hydrogel system for culture of retinal ganglion cells and amacrine cells. Acta Biomaterialia, 2013, 9, 7622-7629.	4.1	24
76	The role of soluble adenylyl cyclase in neurite outgrowth. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2014, 1842, 2561-2568.	1.8	22
77	Novel Roles and Mechanism for KrÃ¼ppel-like Factor 16 (KLF16) Regulation of Neurite Outgrowth and Ephrin Receptor A5 (EphA5) Expression in Retinal Ganglion Cells. Journal of Biological Chemistry, 2016, 291, 18084-18095.	1.6	22
78	Amacrine Cell Gene Expression and Survival Signaling: Differences from Neighboring Retinal Ganglion Cells. , 2010, 51, 3800.		21
79	Investigation of nanoparticles using magnetic resonance imaging after intravitreal injection. Clinical and Experimental Ophthalmology, 2012, 40, 100-107.	1.3	21
80	Isolation and Characterization of Mesenchymal Progenitor Cells From Human Orbital Adipose Tissue. , 2014, 55, 4842.		20
81	Opposing Effects of Growth and Differentiation Factors in Cell-Fate Specification. Current Biology, 2019, 29, 1963-1975.e5.	1.8	20
82	Cell types differ in global coordination of splicing and proportion of highly expressed genes. Scientific Reports, 2016, 6, 32249.	1.6	19
83	Serotonin receptor 2C regulates neurite growth and is necessary for normal retinal processing of visual information. Developmental Neurobiology, 2017, 77, 419-437.	1.5	19
84	Role of electrical activity in promoting neural repair. Neuroscience Letters, 2012, 519, 134-137.	1.0	18
85	Muscle A-Kinase Anchoring Protein-Î± is an Injury-Specific Signaling Scaffold Required for Neurotrophic- and Cyclic Adenosine Monophosphate-Mediated Survival. EBioMedicine, 2015, 2, 1880-1887.	2.7	18
86	Posttranslational Modification of Sox11 Regulates RGC Survival and Axon Regeneration. ENeuro, 2021, 8, ENEURO.0358-20.2020.	0.9	18
87	Report on the National Eye Institute Audacious Goals Initiative: Regenerating the Optic Nerve. , 2016, 57, 1271.		17
88	The Retinal Ganglion Cell Transportome Identifies Proteins Transported to Axons and Presynaptic Compartments in the Visual System InÂVivo. Cell Reports, 2019, 28, 1935-1947.e5.	2.9	16
89	Dynamics of Contrast Decrement and Increment Responses in Human Visual Cortex. Translational Vision Science and Technology, 2020, 9, 6.	1.1	16
90	KrÃ¼ppel-Like Factor 4 (KLF4) Is Not Required for Retinal Cell Differentiation. ENeuro, 2016, 3, ENEURO.0117-15.2016.	0.9	16

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91	The Role of Axon Transport in Neuroprotection and Regeneration. Developmental Neurobiology, 2018, 78, 998-1010.	1.5	14
92	Phase 1b Randomized Controlled Study of Short Course Topical Recombinant Human Nerve Growth Factor (rhNGF) for Neuroenhancement in Glaucoma: Safety, Tolerability, and Efficacy Measure Outcomes. American Journal of Ophthalmology, 2022, 234, 223-234.	1.7	14
93	Deciphering the genetic architecture and ethnographic distribution of IRD in three ethnic populations by whole genome sequence analysis. PLoS Genetics, 2021, 17, e1009848.	1.5	13
94	Neural regeneration: Extending axons from bench to brain. Current Biology, 1998, 8, R310-R312.	1.8	12
95	MTP18 is a Novel Regulator of Mitochondrial Fission in CNS Neuron Development, Axonal Growth, and Injury Responses. Scientific Reports, 2019, 9, 10669.	1.6	12
96	Amacrine Cell Subtypes Differ in Their Intrinsic Neurite Growth Capacity. , 2013, 54, 7603.		11
97	Femtosecond Laser-Assisted Astigmatic Keratotomy for Postoperative Trabeculectomy-Induced Corneal Astigmatism. Journal of Refractive Surgery, 2014, 30, 502-504.	1.1	11
98	Signaling Endosomes and Growth Cone Motility in Axon Regeneration. International Review of Neurobiology, 2012, 106, 35-73.	0.9	10
99	Quantitative transportomics identifies Kif5a as a major regulator of neurodegeneration. ELife, 2022, 11, .	2.8	10
100	Fuchs endothelial corneal dystrophy: clinical characteristics of surgical and nonsurgical patients. Clinical Ophthalmology, 2014, 8, 1761.	0.9	9
101	Retinal Ganglion Cell Life and Death â€“ Mechanisms and Implications for Ophthalmology. European Ophthalmic Review, 2009, 03, 109.	0.3	9
102	Clinician-Scientists in Ophthalmology Revisited. Ophthalmology, 2013, 120, 1949-1950.	2.5	8
103	The N-terminal Set-Î² Protein Isoform Induces Neuronal Death. Journal of Biological Chemistry, 2015, 290, 13417-13426.	1.6	8
104	Clinical and Electrophysiologic Characteristics of a Large Kindred with X-Linked Retinitis Pigmentosa Associated with the RPGR Locus. Ophthalmic Genetics, 2015, 36, 321-326.	0.5	7
105	Retinal Cell Fate Specification. Trends in Neurosciences, 2018, 41, 165-167.	4.2	7
106	cAMP at Perinuclear mAKAPÎ± Signalosomes Is Regulated by Local Ca²⁺ Signaling in Primary Hippocampal Neurons. ENeuro, 2021, 8, ENEURO.0298-20.2021.	0.9	7
107	MEF2 transcription factors differentially contribute to retinal ganglion cell loss after optic nerve injury. PLoS ONE, 2020, 15, e0242884.	1.1	7
108	Foxn4 is required for retinal ganglion cell distal axon patterning. Molecular and Cellular Neurosciences, 2011, 46, 731-741.	1.0	6

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109	Promoting CNS repair. Science, 2016, 353, 30-31.	6.0	6
110	Quantitative BONCAT Allows Identification of Newly Synthesized Proteins after Optic Nerve Injury. Journal of Neuroscience, 2022, 42, 4042-4052.	1.7	6
111	Soluble Adenylyl Cyclase Is Required for Retinal Ganglion Cell and Photoreceptor Differentiation. , 2016, 57, 5083.		5
112	Dual Specific Phosphatase 14 Deletion Rescues Retinal Ganglion Cells and Optic Nerve Axons after Experimental Anterior Ischemic Optic Neuropathy. Current Eye Research, 2021, 46, 710-718.	0.7	5
113	Intrinsic Morphologic and Physiologic Development of Human Derived Retinal Ganglion Cells In Vitro. Translational Vision Science and Technology, 2021, 10, 1.	1.1	5
114	Cell autonomous sonic hedgehog signaling contributes to maintenance of retinal endothelial tight junctions. Experimental Eye Research, 2017, 164, 82-89.	1.2	4
115	Physiologic maturation is both extrinsically and intrinsically regulated in progenitor-derived neurons. Scientific Reports, 2020, 10, 2337.	1.6	4
116	Fusogenic liposome-enhanced cytosolic delivery of magnetic nanoparticles. RSC Advances, 2021, 11, 35796-35805.	1.7	4
117	Preface. International Review of Neurobiology, 2012, 105, xi-xiii.	0.9	3
118	Regulating Growth Cone Motility and Axon Growth by Manipulating Targeted Superparamagnetic Nanoparticles. Neuromethods, 2018, , 89-108.	0.2	3
119	Optic Nerve. , 2011, , 550-573.		3
120	Implicit Bias and the Association of Redaction of Identifiers With Residency Application Screening Scores. JAMA Ophthalmology, 2021, 139, 1274.	1.4	3
121	A Cost Comparison of Cataract Surgeries in Three Countries â€" United States, India, and Nepal. NEJM Catalyst, 2021, 2, .	0.4	2
122	Stem Cells and Glaucoma. , 2013, , 75-97.		2
123	How to Measure Vision in Glaucoma. JAMA Ophthalmology, 2013, 131, 1563.	1.4	1
124	Rat Model of Photochemically-Induced Posterior Ischemic Optic Neuropathy. Journal of Visualized Experiments, 2015, , .	0.2	1
125	The rapid N-wave as a potentially useful measure of the photopic negative response. Documenta Ophthalmologica, 2020, 141, 253-257.	1.0	1
126	Control issues. British Journal of Ophthalmology, 2012, 96, 1348.2-1349.	2.1	0

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127	Preface. International Review of Neurobiology, 2012, 106, xi-xiii.	0.9	0
128	Stem Cells in Ophthalmology. , 0, , .		0
129	ACUTE RETINAL PIGMENT EPITHELIUM DETACHMENTS AFTER PHOTOCOAGULATION. Retina, 2014, 34, 749-760.	1.0	0
130	Cell Transplantation Therapy for Glaucoma. , 2017, , 65-76.		0
131	Reply. Ophthalmology, 2020, 127, e17.	2.5	0
132	Nanoparticles as Cell Tracking Agents in Human Ocular Cell Transplantation Therapy. Current Ophthalmology Reports, 2021, 9, 133-145.	0.5	0