Donald J Zack

List of Publications by Year
in descending order

233 papers	18,653 citations	11639 70 h-index	18115 120 g-index
249 all docs	249 docs citations	249 times ranked	17184 citing authors

#	Article	IF	Citations
1	A hypotonic gel-forming eye drop provides enhanced intraocular delivery of a kinase inhibitor with melanin-binding properties for sustained protection of retinal ganglion cells. Drug Delivery and Translational Research, 2022, 12, 826-837.	3.0	12
2	High-throughput and high-content bioassay enables tuning of polyester nanoparticles for cellular uptake, endosomal escape, and systemic in vivo delivery of mRNA. Science Advances, 2022, 8, eabk2855.	4.7	54
3	Monocyte-derived SDF1 supports optic nerve regeneration and alters retinal ganglion cellsâ€™ response to Pten deletion. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, e2113751119.	3.3	22
4	Reactive Astrocytes Derived From Human Induced Pluripotent Stem Cells Suppress Oligodendrocyte Precursor Cell Differentiation. Frontiers in Molecular Neuroscience, 2022, 15, .	1.4	6
5	Human photoreceptors switch from autonomous axon extension to cell-mediated process pulling during synaptic marker redistribution. Cell Reports, 2022, 39, 110827.	2.9	4
6	Aquaporin 4 is not present in normal porcine and human lamina cribrosa. PLoS ONE, 2022, 17, e0268541.	1.1	7
7	Single-cell transcriptomic reveals molecular diversity and developmental heterogeneity of human stem cell-derived oligodendrocyte lineage cells. Nature Communications, 2021, 12, 652.	5.8	47
8	Role of the Internal Limiting Membrane in Structural Engraftment and Topographic Spacing of Transplanted Human Stem Cell-Derived Retinal Ganglion Cells. Stem Cell Reports, 2021, 16, 149-167.	2.3	37
9	Proteome Landscape of Epithelial-to-Mesenchymal Transition (EMT) of Retinal Pigment Epithelium Shares Commonalities With Malignancy-Associated EMT. Molecular and Cellular Proteomics, 2021, 20, 100131.	2.5	12
10	Transcriptome Landscape of Epithelial to Mesenchymal Transition of Human Stem Cellâ€“Derived RPE. , 2021, 62, 1.		12
11	We Shall See?. New England Journal of Medicine, 2021, 384, 1766-1768.	13.9	2
12	Ion-Complex Microcrystal Formulation Provides Sustained Delivery of a Multimodal Kinase Inhibitor from the Subconjunctival Space for Protection of Retinal Ganglion Cells. Pharmaceutics, 2021, 13, 647.	2.0	10
13	Large-scale phenotypic drug screen identifies neuroprotectants in zebrafish and mouse models of retinitis pigmentosa. ELife, 2021, 10, .	2.8	15
14	Intrinsic Morphologic and Physiologic Development of Human Derived Retinal Ganglion Cells In Vitro. Translational Vision Science and Technology, 2021, 10, 1.	1.1	5
15	Complement component 3 from astrocytes mediates retinal ganglion cell loss during neuroinflammation. Acta Neuropathologica, 2021, 142, 899-915.	3.9	39
16	BNIP3L-mediated mitophagy is required for mitochondrial remodeling during the differentiation of optic nerve oligodendrocytes. Autophagy, 2021, 17, 3140-3159.	4.3	37
17	Proteomic and phosphoproteomic analyses identify liver-related signaling in retinal pigment epithelial cells during EMT. Cell Reports, 2021, 37, 109866.	2.9	3
18	CRISPR Generated SIX6 and POU4F2 Reporters Allow Identification of Brain and Optic Transcriptional Differences in Human PSC-Derived Organoids. Frontiers in Cell and Developmental Biology, 2021, 9, 764725.	1.8	19

#	Article	IF	Citations
19	Temporal and Isoform-Specific Expression of CTBP2 Is Evolutionarily Conserved Between the Developing Chick and Human Retina. Frontiers in Molecular Neuroscience, 2021, 14, 773356.	1.4	3
20	A Combinatorial Library of Biodegradable Polyesters Enables Non-viral Gene Delivery to Post-Mitotic Human Stem Cell-Derived Polarized RPE Monolayers. Regenerative Engineering and Translational Medicine, 2020, 6, 273-285.	1.6	6
21	Human Organoids for the Study of Retinal Development and Disease. Annual Review of Vision Science, 2020, 6, 91-114.	2.3	38
22	Gelling hypotonic polymer solution for extended topical drug delivery to the eye. Nature Biomedical Engineering, 2020, 4, 1053-1062.	11.6	69
23	Single-Cell Analysis of Human Retina Identifies Evolutionarily Conserved and Species-Specific Mechanisms Controlling Development. Developmental Cell, 2020, 53, 473-491.e9.	3.1	170
24	Investigating cone photoreceptor development using patient-derived NRL null retinal organoids. Communications Biology, 2020, 3, 82.	2.0	62
25	Programmed switch in the mitochondrial degradation pathways during human retinal ganglion cell differentiation from stem cells is critical for RGC survival. Redox Biology, 2020, 34, 101465.	3.9	12
26	Inhibition of GCK-IV kinases dissociates cell death and axon regeneration in CNS neurons. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 33597-33607.	3.3	19
27	Reproducibility and staging of 3D human retinal organoids across multiple pluripotent stem cell lines. Development (Cambridge), 2019, 146, .	1.2	203
28	Glial pathology and retinal neurotoxicity in the anterior visual pathway in experimental autoimmune encephalomyelitis. Acta Neuropathologica Communications, 2019, 7, 125.	2.4	47
29	Association of a Primary Open-Angle Glaucoma Genetic Risk Score With Earlier Age at Diagnosis. JAMA Ophthalmology, 2019, 137, 1190.	1.4	32
30	PanoView: An iterative clustering method for single-cell RNA sequencing data. PLoS Computational Biology, 2019, 15, e1007040.	1.5	16
31	Targeted disruption of dual leucine zipper kinase and leucine zipper kinase promotes neuronal survival in a model of diffuse traumatic brain injury. Molecular Neurodegeneration, 2019, 14, 44.	4.4	25
32	ATAC-Seq analysis reveals a widespread decrease of chromatin accessibility in age-related macular degeneration. Nature Communications, 2018, 9, 1364.	5.8	124
33	Single cell RNA sequencing of stem cell-derived retinal ganglion cells. Scientific Data, 2018, 5, 180013.	2.4	55
34	The Role of c-Jun N-Terminal Kinase (JNK) in Retinal Degeneration and Vision Loss. Advances in Experimental Medicine and Biology, 2018, 1074, 351-357.	0.8	5
35	Role of SARM1 and DR6 in retinal ganglion cell axonal and somal degeneration following axonal injury. Experimental Eye Research, 2018, 171, 54-61.	1.2	57
36	Collagen vitrigels with lowâ€fibril density enhance human embryonic stem cellâ€derived retinal pigment epithelial cell maturation. Journal of Tissue Engineering and Regenerative Medicine, 2018, 12, 821-829.	1.3	6

#	Article	IF	Citations
37	Egr2 overexpression in Schwann cells increases myelination frequency inÂvitro. Heliyon, 2018, 4, e00982.	1.4	5
38	Highly efficient scarless knock-in of reporter genes into human and mouse pluripotent stem cells via transient antibiotic selection. PLoS ONE, 2018, 13, e0201683.	1.1	14
39	Three-Dimensional Retinal Organoids Facilitate the Investigation of Retinal Ganglion Cell Development, Organization and Neurite Outgrowth from Human Pluripotent Stem Cells. Scientific Reports, 2018, 8, 14520.	1.6	130
40	Thyroid hormone signaling specifies cone subtypes in human retinal organoids. Science, 2018, 362, .	6.0	188
41	Inherited Retinal Degenerations: Current Landscape and Knowledge Gaps. Translational Vision Science and Technology, 2018, 7, 6.	1.1	168
42	Testosterone Pathway Genetic Polymorphisms in Relation to Primary Open-Angle Glaucoma: An Analysis in Two Large Datasets. , 2018, 59, 629.		14
43	Cornea organoids from human induced pluripotent stem cells. Scientific Reports, 2017, 7, 41286.	1.6	73
44	The challenge of regenerative therapies for the optic nerve in glaucoma. Experimental Eye Research, 2017, 157, 28-33.	1.2	52
45	Special Commentary: Early Clinical Development of Cell Replacement Therapy: Considerations for the National Eye Institute Audacious Goals Initiative. Ophthalmology, 2017, 124, 926-934.	2.5	10
46	Photoreceptor Outer Segment-like Structures in Long-Term 3D Retinas from Human Pluripotent Stem Cells. Scientific Reports, 2017, 7, 766.	1.6	205
47	Enhanced Functional Genomic Screening Identifies Novel Mediators of Dual Leucine Zipper Kinase-Dependent Injury Signaling in Neurons. Neuron, 2017, 94, 1142-1154.e6.	3.8	118
48	Development of a Modular Automated System for Maintenance and Differentiation of Adherent Human Pluripotent Stem Cells. SLAS Discovery, 2017, 22, 1016-1025.	1.4	44
49	Longitudinal analysis of mouse SDOCT volumes. , 2017, 10137, .		0
50	Enhanced Stem Cell Differentiation and Immunopurification of Genome Engineered Human Retinal Ganglion Cells. Stem Cells Translational Medicine, 2017, 6, 1972-1986.	1.6	101
51	Genetic correlations between intraocular pressure, blood pressure and primary open-angle glaucoma: a multi-cohort analysis. European Journal of Human Genetics, 2017, 25, 1261-1267.	1.4	18
52	Screening and Characterization of Drugs That Protect Corneal Endothelial Cells Against Unfolded Protein Response and Oxidative Stress. , 2017, 58, 892.		31
53	Systematic Functional Testing of Rare Variants: Contributions of CFI to Age-Related Macular Degeneration. , 2017, 58, 1570.		13
54	A Triple-Fluorophore-Labeled Nucleic Acid pH Nanosensor to Investigate Non-viral Gene Delivery. Molecular Therapy, 2017, 25, 1697-1709.	3.7	18

#	Article	IF	Citations
55	De novo assembly and annotation of the retinal transcriptome for the Nile grass rat (Arvicanthis) Tj ETQq1 1 0.784314 rgBT /Overlock	1.1	2
56	Automated segmentation of mouse OCT volumes (ASiMOV): Validation & clinical study of a light damage model. PLoS ONE, 2017, 12, e0181059.	1.1	8
57	The Potential of Human Stem Cells for the Study and Treatment of Glaucoma. , 2016, 57, ORSFi1.		51
58	Identification of an Alternative Splicing Product of the Otx2 Gene Expressed in the Neural Retina and Retinal Pigmented Epithelial Cells. PLoS ONE, 2016, 11, e0150758.	1.1	8
59	Off Target, but Sequence-Specific, shRNA-Associated Trans-Activation of Promoter Reporters in Transient Transfection Assays. PLoS ONE, 2016, 11, e0167867.	1.1	1
60	A Common Variant in MIR182 Is Associated With Primary Open-Angle Glaucoma in the NEIGHBORHOOD Consortium. , 2016, 57, 4528.		42
61	Assessing the Association of Mitochondrial Genetic Variation With Primary Open-Angle Glaucoma Using Gene-Set Analyses. , 2016, 57, 5046.		44
62	Characterization of intravitreally delivered capsid mutant AAV2-Cre vector to induce tissue-specific mutations in murine retinal ganglion cells. Experimental Eye Research, 2016, 151, 61-67.	1.2	0
63	Resolving complex research data management issues in biomedical laboratories: Qualitative study of an industryâ€“academia collaboration. Computer Methods and Programs in Biomedicine, 2016, 126, 160-170.	2.6	5
64	Genome-wide association analysis identifies TXNRD2, ATXN2 and FOXC1 as susceptibility loci for primary open-angle glaucoma. Nature Genetics, 2016, 48, 189-194.	9.4	211
65	Use of a Machine Learning-Based High Content Analysis Approach to Identify Photoreceptor Neurite Promoting Molecules. Advances in Experimental Medicine and Biology, 2016, 854, 597-603.	0.8	5
66	Serum molecular signature for proliferativeÂdiabeticÂretinopathy in Saudi patients with type 2 diabetes. Molecular Vision, 2016, 22, 636-45.	1.1	6
67	Differentiation of human ESCs to retinal ganglion cells using a CRISPR engineered reporter cell line. Scientific Reports, 2015, 5, 16595.	1.6	142
68	Differential DNA methylation identified in the blood and retina of AMD patients. Epigenetics, 2015, 10, 698-707.	1.3	62
69	Characterization of tissue-specific differential DNA methylation suggests distinct modes of positive and negative gene expression regulation. BMC Genomics, 2015, 16, 49.	1.2	132
70	Gene Regulation: It Matters Who You Hang Out With. Neuron, 2015, 86, 7-9.	3.8	1
71	Small-moleculeâ€“directed, efficient generation of retinal pigment epithelium from human pluripotent stem cells. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 10950-10955.	3.3	114
72	The Transcription Factor GTF2IRD1 Regulates the Topology and Function of Photoreceptors by Modulating Photoreceptor Gene Expression across the Retina. Journal of Neuroscience, 2014, 34, 15356-15368.	1.7	10

#	Article	IF	Citations
73	Vascular tone pathway polymorphisms in relation to primary open-angle glaucoma. Eye, 2014, 28, 662-671.	1.1	14
74	DNA Copy Number Variants of Known Glaucoma Genes in Relation to Primary Open-Angle Glaucoma. Investigative Ophthalmology and Visual Science, 2014, 55, 8251-8258.	3.3	27
75	Therapeutic strategy for handling inherited retinal degenerations in a gene-independent manner using rod-derived cone viability factors. Comptes Rendus - Biologies, 2014, 337, 207-213.	0.1	13
76	Genome-wide association study and meta-analysis of intraocular pressure. Human Genetics, 2014, 133, 41-57.	1.8	93
77	Expansion of the CRISPRâ€“Cas9 genome targeting space through the use of H1 promoter-expressed guide RNAs. Nature Communications, 2014, 5, 4516.	5.8	60
78	Hypothesis-independent pathway analysis implicates GABA and Acetyl-CoA metabolism in primary open-angle glaucoma and normal-pressure glaucoma. Human Genetics, 2014, 133, 1319-1330.	1.8	32
79	The Pex1-G844D mouse: A model for mild human Zellweger spectrum disorder. Molecular Genetics and Metabolism, 2014, 111, 522-532.	0.5	170
80	Association of CAV1/CAV2 Genomic Variants with Primary Open-Angle Glaucoma Overall and by Gender and Pattern of Visual Field Loss. Ophthalmology, 2014, 121, 508-516.	2.5	91
81	Transcription Factor SOX9 Plays a Key Role in the Regulation of Visual Cycle Gene Expression in the Retinal Pigment Epithelium. Journal of Biological Chemistry, 2014, 289, 12908-12921.	1.6	49
82	Rare and common variants in extracellular matrix gene Fibrillin 2 (FBN2) are associated with macular degeneration. Human Molecular Genetics, 2014, 23, 5827-5837.	1.4	52
83	Stem Cells, Retinal Ganglion Cells and Glaucoma. Developments in Ophthalmology, 2014, 53, 111-121.	0.1	30
84	Modeling Retinal Dystrophies Using Patient-Derived Induced Pluripotent Stem Cells. Advances in Experimental Medicine and Biology, 2014, 801, 157-164.	0.8	21
85	A High Content Screening Approach to Identify Molecules Neuroprotective for Photoreceptor Cells. Advances in Experimental Medicine and Biology, 2014, 801, 773-781.	0.8	15
86	A novel methyl-binding domain protein enrichment method for identifying genome-wide tissue-specific DNA methylation from nanogram DNA samples. Epigenetics and Chromatin, 2013, 6, 17.	1.8	17
87	Hypomethylation of the IL17RC Promoter in Peripheral Blood Leukocytes Is Not A Hallmark of Age-Related Macular Degeneration. Cell Reports, 2013, 5, 1527-1535.	2.9	42
88	Construction of human activityâ€based phosphorylation networks. Molecular Systems Biology, 2013, 9, 655.	3.2	153
89	Conditional knockdown of DNA methyltransferase 1 reveals a key role of retinal pigment epithelium integrity in photoreceptor outer segment morphogenesis. Development (Cambridge), 2013, 140, 1330-1341.	1.2	77
90	CDKN2B-AS1 Genotypeâ€“Glaucoma Feature Correlations in Primary Open-Angle Glaucoma Patients From the United States. American Journal of Ophthalmology, 2013, 155, 342-353.e5.	1.7	76

#	Article	IF	Citations
91	Seven new loci associated with age-related macular degeneration. Nature Genetics, 2013, 45, 433-439.	9.4	687
92	Alternative splicing and retinal degeneration. Clinical Genetics, 2013, 84, 142-149.	1.0	74
93	A functional variant in the CFI gene confers a high risk of age-related macular degeneration. Nature Genetics, 2013, 45, 813-817.	9.4	162
94	A Simple and Scalable Process for the Differentiation of Retinal Pigment Epithelium From Human Pluripotent Stem Cells. Stem Cells Translational Medicine, 2013, 2, 341-354.	1.6	88
95	The NEIGHBOR Consortium Primary Open-Angle Glaucoma Genome-wide Association Study. Journal of Glaucoma, 2013, 22, 517-525.	0.8	55
96	Functional genomic screening identifies dual leucine zipper kinase as a key mediator of retinal ganglion cell death. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 4045-4050.	3.3	239
97	Inactivation of the microRNA -183/96/182 cluster results in syndromic retinal degeneration. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, E507-16.	3.3	173
98	Integrative analysis of tissue-specific methylation and alternative splicing identifies conserved transcription factor binding motifs. Nucleic Acids Research, 2013, 41, 8503-8514.	6.5	46
99	Evaluating the potential of poly(beta-amino ester) nanoparticles for reprogramming human fibroblasts to become induced pluripotent stem cells. International Journal of Nanomedicine, 2013, 8, 4641.	3.3	34
100	Epigenetics and Cell Death: DNA Hypermethylation in Programmed Retinal Cell Death. PLoS ONE, 2013, 8, e79140.	1.1	33
101	RIT2, a neuron-specific small guanosine triphosphatase, is expressed in retinal neuronal cells and its promoter is modulated by the POU4 transcription factors. Molecular Vision, 2013, 19, 1371-86.	1.1	16
102	Estrogen pathway polymorphisms in relation to primary open angle glaucoma: an analysis accounting for gender from the United States. Molecular Vision, 2013, 19, 1471-81.	1.1	40
103	Common Variants at 9p21 and 8q22 Are Associated with Increased Susceptibility to Optic Nerve Degeneration in Glaucoma. PLoS Genetics, 2012, 8, e1002654.	1.5	276
104	Hydrocortisone Stimulates Neurite Outgrowth from Mouse Retinal Explants by Modulating Macroglial Activity. , 2012, 53, 2046.		15
105	High-Content Screening Data Management for Drug Discovery in a Small- to Medium-Size Laboratory. Journal of the Association for Laboratory Automation, 2012, 17, 255-265.	2.8	1
106	Retinal Ganglion Cell Morphology after Optic Nerve Crush and Experimental Glaucoma. , 2012, 53, 3847.		101
107	MITFâ€M, a â€˜melanocyteâ€specificâ€™ isoform, is expressed in the adult retinal pigment epithelium. Pigment Cell and Melanoma Research, 2012, 25, 641-644.	1.5	20
108	Genome-Wide Analysis of Central Corneal Thickness in Primary Open-Angle Glaucoma Cases in the NEIGHBOR and GLAUGEN Consortia. , 2012, 53, 4468.		52

#	Article	IF	Citations
109	Semi-automated, quantitative analysis of retinal ganglion cell morphology in mice selectively expressing yellow fluorescent protein. Experimental Eye Research, 2012, 96, 107-115.	1.2	17
110	Heritability and Genome-Wide Association Study to Assess Genetic Differences between Advanced Age-related Macular Degeneration Subtypes. Ophthalmology, 2012, 119, 1874-1885.	2.5	73
111	Cell-Specific DNA Methylation Patterns of Retina-Specific Genes. PLoS ONE, 2012, 7, e32602.	1.1	55
112	Use of Laser Capture Microdissection for Analysis of Retinal mRNA/miRNA Expression and DNA Methylation. Methods in Molecular Biology, 2012, 884, 289-304.	0.4	21
113	Dynamics of Regulatory Networks in the Developing Mouse Retina. PLoS ONE, 2012, 7, e46521.	1.1	9
114	Generation ofCreTransgenic Mice with Postnatal RPE-Specific Ocular Expression. , 2011, 52, 1378.		85
115	What has gene expression profiling taught us about glaucoma?. Experimental Eye Research, 2011, 93, 191-195.	1.2	9
116	Lack of neuroprotection against experimental glaucoma in c-Jun N-terminal kinase 3 knockout mice. Experimental Eye Research, 2011, 92, 299-305.	1.2	34
117	Retinal ganglion cells: Development, function, and disease. Vision Research, 2011, 51, 223.	0.7	0
118	Mutation in the Î²A3/A1-crystallin gene impairs phagosome degradation in the retinal pigmented epithelium of the rat. Journal of Cell Science, 2011, 124, 523-531.	1.2	66
119	Dynamic usage of alternative splicing exons during mouse retina development. Nucleic Acids Research, 2011, 39, 7920-7930.	6.5	33
120	Myelination transition zone astrocytes are constitutively phagocytic and have synuclein dependent reactivity in glaucoma. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 1176-1181.	3.3	189
121	A rare penetrant mutation in CFH confers high risk of age-related macular degeneration. Nature Genetics, 2011, 43, 1232-1236.	9.4	291
122	Common variants near FRK/COL10A1 and VEGFA are associated with advanced age-related macular degeneration. Human Molecular Genetics, 2011, 20, 3699-3709.	1.4	232
123	A Splice-Site Mutation in a Retina-Specific Exon of BBS8 Causes Nonsyndromic Retinitis Pigmentosa. American Journal of Human Genetics, 2010, 86, 805-812.	2.6	109
124	Mechanisms of Macular Degeneration. Vision Research, 2010, 50, 637.	0.7	1
125	Alternative splicing of neuroligin and its protein distribution in the outer plexiform layer of the chicken retina. Journal of Comparative Neurology, 2010, 518, 4938-4962.	0.9	12
126	Prolonged blockade of VEGF receptors does not damage retinal photoreceptors or ganglion cells. Journal of Cellular Physiology, 2010, 224, 262-272.	2.0	41

#	Article	IF	Citations
127	Baicalein reduces E46K Î±â€synuclein aggregation in vitro and protects cells against E46K Î±â€synuclein toxicity in cell models of familiar Parkinsonism. Journal of Neurochemistry, 2010, 114, 419-429.	2.1	76
128	Expression of Rod-Derived Cone Viability Factor: Dual Role of CRX in Regulating Promoter Activity and Cell-Type Specificity. PLoS ONE, 2010, 5, e13075.	1.1	8
129	MicroRNA Profile of the Developing Mouse Retina. , 2010, 51, 1823.		98
130	The homeobox gene CHX10/VSX2 regulates RdCVF promoter activity in the inner retina. Human Molecular Genetics, 2010, 19, 250-261.	1.4	40
131	Genome-wide association study of advanced age-related macular degeneration identifies a role of the hepatic lipase gene (LIPC). Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 7395-7400.	3.3	406
132	Computational analysis of tissue-specific gene networks: application to murine retinal functional studies. Bioinformatics, 2010, 26, 2289-2297.	1.8	26
133	Genetic and Functional Dissection of HTRA1 and LOC387715 in Age-Related Macular Degeneration. PLoS Genetics, 2010, 6, e1000836.	1.5	101
134	Genetic variants near TIMP3 and high-density lipoproteinâ€“associated loci influence susceptibility to age-related macular degeneration. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 7401-7406.	3.3	475
135	Effect of CNTF on Retinal Ganglion Cell Survival in Experimental Glaucoma. , 2009, 50, 2194.		195
136	Oncomodulin links inflammation to optic nerve regeneration. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 19587-19592.	3.3	177
137	Relating periodicity of nucleosome organization and gene regulation. Bioinformatics, 2009, 25, 1782-1788.	1.8	13
138	BEST1 expression in the retinal pigment epithelium is modulated by OTX family members. Human Molecular Genetics, 2009, 18, 128-141.	1.4	49
139	Prolonged blockade of VEGF family members does not cause identifiable damage to retinal neurons or vessels. Journal of Cellular Physiology, 2008, 217, 13-22.	2.0	59
140	TiGER: A database for tissue-specific gene expression and regulation. BMC Bioinformatics, 2008, 9, 271.	1.2	336
141	Î²A3/A1-crystallin in astroglial cells regulates retinal vascular remodeling during development. Molecular and Cellular Neurosciences, 2008, 37, 85-95.	1.0	64
142	Toll-like Receptor 3 and Geographic Atrophy in Age-Related Macular Degeneration. New England Journal of Medicine, 2008, 359, 1456-1463.	13.9	209
143	Inducible Expression of Cre Recombinase in the Retinal Pigmented Epithelium. , 2008, 49, 1248.		73
144	Analysis of regulatory network topology reveals functionally distinct classes of microRNAs. Nucleic Acids Research, 2008, 36, 6494-6503.	6.5	81

#	Article	IF	Citations
145	Studies on Retinal and Retinal Pigment Epithelial Gene Expression. Novartis Foundation Symposium, 2008, , 131-146.	1.2	1
146	Neurite Outgrowth in Retinal Ganglion Cell Culture. , 2007, 356, 427-434.		12
147	Changes in Gene Expression in Experimental Glaucoma and Optic Nerve Transection: The Equilibrium between Protective and Detrimental Mechanisms. , 2007, 48, 5539.		157
148	VMD2 Promoter Requires Two Proximal E-box Sites for Its Activity in Vivo and Is Regulated by the MITF-TFE Family. Journal of Biological Chemistry, 2007, 282, 1838-1850.	1.6	41
149	Nonredundant Role of Akt2 for Neuroprotection of Rod Photoreceptor Cells from Light-Induced Cell Death. Journal of Neuroscience, 2007, 27, 203-211.	1.7	86
150	Characteristics of Progenitor Cells Derived from Adult Ciliary Body in Mouse, Rat, and Human Eyes. , 2007, 48, 1674.		80
151	Identification of tissue-specific cis-regulatory modules based on interactions between transcription factors. BMC Bioinformatics, 2007, 8, 437.	1.2	27
152	Characterization of Binding Sites of Eukaryotic Transcription Factors. Genomics, Proteomics and Bioinformatics, 2006, 4, 67-79.	3.0	2
153	The Iron Carrier Transferrin Is Upregulated in Retinas from Patients with Age-Related Macular Degeneration. , 2006, 47, 2135.		88
154	Sustained expression after nonviral ocular gene transfer using mammalian promoters. Gene Therapy, 2006, 13, 798-804.	2.3	26
155	Genome-wide prediction and characterization of interactions between transcription factors in Saccharomyces cerevisiae. Nucleic Acids Research, 2006, 34, 917-927.	6.5	68
156	Computational analysis of tissue-specific combinatorial gene regulation: predicting interaction between transcription factors in human tissues. Nucleic Acids Research, 2006, 34, 4925-4936.	6.5	134
157	CHX10 Targets a Subset of Photoreceptor Genes. Journal of Biological Chemistry, 2006, 281, 744-751.	1.6	51
158	Zinc-finger domains of the transcriptional repressor KLF15 bind multiple sites in rhodopsin and IRBP promoters including the CRS-1 and G-rich repressor elements. BMC Molecular Biology, 2005, 6, 15.	3.0	21
159	A System for Inducible Gene Expression in Retinal Ganglion Cells. , 2005, 46, 2932.		19
160	Different effects of angiopoietinâ€2 in different vascular beds in the eye: new vessels are most sensitive. FASEB Journal, 2005, 19, 963-965.	0.2	105
161	Nonviral ocular gene transfer. Gene Therapy, 2005, 12, 843-851.	2.3	75
162	Identification of regulatory targets of tissue-specific transcription factors: application to retina-specific gene regulation. Nucleic Acids Research, 2005, 33, 3479-3491.	6.5	59

#	Article	IF	Citations
163	Roles of cell-intrinsic and microenvironmental factors in photoreceptor cell differentiation. Developmental Biology, 2005, 286, 31-45.	0.9	37
164	Genomic organization of zebrafish cone-rod homeobox gene and exclusion as a candidate gene for retinal degeneration in niezerka and mikre oko. Molecular Vision, 2005, 11, 986-95.	1.1	5
165	Bone morphogenetic proteins promote neurite outgrowth in retinal ganglion cells. Molecular Vision, 2005, 11, 208-15.	1.1	30
166	Gene Expression Profiling of Purified Rat Retinal Ganglion Cells. , 2004, 45, 2503.		36
167	Seeing the Unseen: Microarray-Based Gene Expression Profiling in Vision. , 2004, 45, 2457.		10
168	Kruì^ppel-like Factor 15, a Zinc-Finger Transcriptional Regulator, Represses the Rhodopsin and Interphotoreceptor Retinoid-Binding Protein Promoters. , 2004, 45, 2522.		27
169	Identification of Gene Expression Changes Associated with the Progression of Retinal Degeneration in therd1Mouse. , 2004, 45, 2929.		88
170	Functional Analysis of the Rod Photoreceptor cGMP Phosphodiesterase Î±-Subunit Gene Promoter. Journal of Biological Chemistry, 2004, 279, 19800-19807.	1.6	54
171	QRX, a novel homeobox gene, modulates photoreceptor gene expression. Human Molecular Genetics, 2004, 13, 1025-1040.	1.4	73
172	Changes in Retinal Pigment Epithelial Gene Expression Induced by Rod Outer Segment Uptake. , 2004, 45, 2098.		20
173	Analysis of the VMD2 Promoter and Implication of E-box Binding Factors in Its Regulation. Journal of Biological Chemistry, 2004, 279, 19064-19073.	1.6	89
174	Angiopoietin 1 inhibits ocular neovascularization and breakdown of the bloodâ€“retinal barrier. Gene Therapy, 2004, 11, 865-873.	2.3	102
175	Increased expression of VEGF in retinal pigmented epithelial cells is not sufficient to cause choroidal neovascularization. Journal of Cellular Physiology, 2004, 201, 393-400.	2.0	85
176	A novel RDS/peripherin gene mutation associated with diverse macular phenotypes. Ophthalmic Genetics, 2004, 25, 133-145.	0.5	26
177	Increased Expression of Iron-Regulating Genes in Monkey and Human Glaucoma. Investigative Ophthalmology and Visual Science, 2004, 45, 1410-1417.	3.3	91
178	Vitreous levels of pigment epithelium-derived factor and vascular endothelial growth factor: implications for ocular angiogenesis. American Journal of Ophthalmology, 2004, 137, 668-674.	1.7	81
179	A method for analysis of gene expression in isolated mouse photoreceptor and MÃ¼ller cells. Molecular Vision, 2004, 10, 366-75.	1.1	35
180	Gene Therapy with Brain-Derived Neurotrophic Factor As a Protection: Retinal Ganglion Cells in a Rat Glaucoma Model. , 2003, 44, 4357.		336

#	Article	IF	Citations
181	In vivo micropathology of Best macular dystrophy with optical coherence tomography. Experimental Eye Research, 2003, 76, 203-211.	1.2	68
182	Gene expression variation in the adult human retina. Human Molecular Genetics, 2003, 12, 2881-2893.	1.4	46
183	A Model to Study Differences between Primary and Secondary Degeneration of Retinal Ganglion Cells in Rats by Partial Optic Nerve Transection. , 2003, 44, 3388.		178
184	Identification of Novel Genes Preferentially Expressed in the Retina Using a Custom Human Retina cDNA Microarray. , 2003, 44, 3732.		53
185	Increased Expression of Brain-Derived Neurotrophic Factor Preserves Retinal Function and Slows Cell Death from Rhodopsin Mutation or Oxidative Damage. Journal of Neuroscience, 2003, 23, 4164-4172.	1.7	122
186	Gene discovery in the embryonic chick retina. Molecular Vision, 2003, 9, 262-76.	1.1	7
187	Functional analysis of cone-rod homeobox (CRX) mutations associated with retinal dystrophy. Human Molecular Genetics, 2002, 11, 873-884.	1.4	67
188	Inducible Expression of Vascular Endothelial Growth Factor in Adult Mice Causes Severe Proliferative Retinopathy and Retinal Detachment. American Journal of Pathology, 2002, 160, 711-719.	1.9	166
189	Transcriptome analysis of the retina. Genome Biology, 2002, 3, reviews1022.1.	13.9	31
190	Protein Phosphatase 1 binds strongly to the retinoblastoma protein but not to p107 or p130 in vitro and in vivo. Current Eye Research, 2002, 24, 392-396.	0.7	13
191	Pigment epithelium-derived factor suppresses ischemia-induced retinal neovascularization and VEGF-induced migration and growth. Investigative Ophthalmology and Visual Science, 2002, 43, 821-9.	3.3	230
192	AAV-mediated gene transfer of pigment epithelium-derived factor inhibits choroidal neovascularization. Investigative Ophthalmology and Visual Science, 2002, 43, 1994-2000.	3.3	168
193	Neurotrophic Signaling in Normal and Degenerating Rodent Retinas. Experimental Eye Research, 2001, 73, 693-701.	1.2	70
194	Cloning and Characterization of a Human Î²,Î²-Carotene-15, 15â€²-Dioxygenase That Is Highly Expressed in the Retinal Pigment Epithelium. Genomics, 2001, 72, 193-202.	1.3	152
195	Fibroblast Growth Factor-2 Decreases Hyperoxia-Induced Photoreceptor Cell Death in Mice. American Journal of Pathology, 2001, 159, 1113-1120.	1.9	77
196	Identification and Functional Consequences of a New Mutation (E155G) in the Gene for GCAP1 That Causes Autosomal Dominant Cone Dystrophy. American Journal of Human Genetics, 2001, 69, 471-480.	2.6	115
197	Pigment epithelium-derived factor inhibits retinal and choroidal neovascularization. Journal of Cellular Physiology, 2001, 188, 253-263.	2.0	326
198	A 5-bp deletion in ELOVL4 is associated with two related forms of autosomal dominant macular dystrophy. Nature Genetics, 2001, 27, 89-93.	9.4	370

#	Article	IF	Citations
199	Expression and permeation properties of the K + channel Kir7.1 in the retinal pigment epithelium. Journal of Physiology, 2001, 531, 329-346.	1.3	70
200	[40] Cloning and characterization of retinal transcription factors, using target site-based methodology. Methods in Enzymology, 2000, 316, 590-610.	0.4	6
201	Cell injury unmasks a latent proangiogenic phenotype in mice with increased expression of FGF2 in the retina. Journal of Cellular Physiology, 2000, 185, 135-142.	2.0	50
202	The Architectural Transcription Factor High Mobility Group I(Y) Participates in Photoreceptor-Specific Gene Expression. Journal of Neuroscience, 2000, 20, 7317-7324.	1.7	40
203	Functional Domains of the Cone-Rod Homeobox (CRX) Transcription Factor. Journal of Biological Chemistry, 2000, 275, 37264-37270.	1.6	63
204	The Leucine Zipper of NRL Interacts with the CRX Homeodomain. Journal of Biological Chemistry, 2000, 275, 29794-29799.	1.6	188
205	Platelet-Derived Growth Factor-A-Induced Retinal Gliosis Protects against Ischemic Retinopathy. American Journal of Pathology, 2000, 156, 477-487.	1.9	32
206	Leber congenital amaurosis caused by a homozygous mutation (R90W) in the homeodomain of the retinal transcription factor CRX: direct evidence for the involvement of CRX in the development of photoreceptor function. Human Molecular Genetics, 1999, 8, 299-305.	1.4	169
207	A mutation in NRL is associated with autosomal dominant retinitis pigmentosa. Nature Genetics, 1999, 21, 355-356.	9.4	205
208	A New Locus for Autosomal Dominant Stargardt-Like Disease Maps to Chromosome 4. American Journal of Human Genetics, 1999, 64, 1394-1399.	2.6	88
209	Birth and Death in the Retina. Neuron, 1999, 23, 411-412.	3.8	10
210	Clinical and genetic studies of an autosomal dominant cone-rod dystrophy with features of Stargardt disease. Ophthalmic Genetics, 1999, 20, 71-81.	0.5	27
211	De novo mutations in the CRX homeobox gene associated with Leber congenital amaurosis. Nature Genetics, 1998, 18, 311-312.	9.4	276
212	Sequence and expression analysis of bovine pigment epithelium-derived factor. Biochimica Et Biophysica Acta Gene Regulatory Mechanisms, 1998, 1398, 203-214.	2.4	28
213	Basic Fibroblast Growth Factor Is Neither Necessary nor Sufficient for the Development of Retinal Neovascularization. American Journal of Pathology, 1998, 153, 757-765.	1.9	94
214	Transcriptional Regulation of Cellular Retinaldehyde-binding Protein in the Retinal Pigment Epithelium. Journal of Biological Chemistry, 1998, 273, 5591-5598.	1.6	27
215	A pineal regulatory element (PIRE) mediates transactivation by the pineal/retina-specific transcription factor CRX. Proceedings of the National Academy of Sciences of the United States of America, 1998, 95, 1876-1881.	3.3	101
216	Crx, a Novel Otx-like Paired-Homeodomain Protein, Binds to and Transactivates Photoreceptor Cell-Specific Genes. Neuron, 1997, 19, 1017-1030.	3.8	641

#	Article	IF	Citations
217	Mutations in the Cone-Rod Homeobox Gene Are Associated with the Cone-Rod Dystrophy Photoreceptor Degeneration. Neuron, 1997, 19, 1329-1336.	3.8	250
218	Mammalian Homolog ofDrosophila retinal degeneration BRescues the Mutant Fly Phenotype. Journal of Neuroscience, 1997, 17, 5881-5890.	1.7	62
219	Apoptosis in ocular disease: a molecular overview. Ophthalmic Genetics, 1996, 17, 145-165.	0.5	89
220	The basic motif-leucine zipper transcription factor Nrl can positively regulate rhodopsin gene expression.. Proceedings of the National Academy of Sciences of the United States of America, 1996, 93, 191-195.	3.3	187
221	Rin, a Neuron-Specific and Calmodulin-Binding Small G-Protein, and Rit Define a Novel Subfamily of Ras Proteins. Journal of Neuroscience, 1996, 16, 6784-6794.	1.7	164
222	The bZIP Transcription Factor Nrl Stimulates Rhodopsin Promoter Activity in Primary Retinal Cell Cultures. Journal of Biological Chemistry, 1996, 271, 29612-29618.	1.6	128
223	RER, an Evolutionarily Conserved Sequence Upstream of the Rhodopsin Gene, Has Enhancer Activity. Journal of Biological Chemistry, 1996, 271, 2667-2675.	1.6	50
224	Ret 4, a Positive Acting Rhodopsin Regulatory Element Identified Using a Bovine Retina in Vitro Transcription System. Journal of Biological Chemistry, 1996, 271, 28549-28557.	1.6	54
225	Reporter gene expression in cones in transgenic mice carrying bovine rhodopsin promoter/lacZ transgenes. Visual Neuroscience, 1994, 11, 1227-1231.	0.5	18
226	Murine and Bovine Blue Cone Pigment Genes: Cloning and Characterization of Two New Members of the S Family of Visual Pigments. Genomics, 1994, 21, 440-443.	1.3	61
227	Ocular Gene Therapy. JAMA Ophthalmology, 1993, 111, 1477.	2.6	20
228	Use of Transgenic Mice to Study Retinal Gene Expression. Methods in Neurosciences, 1993, 15, 331-341.	0.5	5
229	A locus control region adjacent to the human red and green visual pigment genes. Neuron, 1992, 9, 429-440.	3.8	390
230	Unusual topography of bovine rhodopsin promoter-lacZ fusion gene expression in transgenic mouse retinas. Neuron, 1991, 6, 187-199.	3.8	191
231	Instability of immunoglobulin genes in S107 cell line. Somatic Cell and Molecular Genetics, 1991, 17, 259-276.	0.7	6
232	Somatic diversification of S107 from an antiphosphocholine to an anti-DNA autoantibody is due to a single base change in its heavy chain variable region.. Proceedings of the National Academy of Sciences of the United States of America, 1987, 84, 2926-2930.	3.3	42
233	Restoring partial vision to a blind patient. Faculty Reviews, 0, 11, .	1.7	0