

# Donald J Zack

## List of Publications by Year in descending order

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233  
papers

18,653  
citations

<sup>11639</sup>  
70  
h-index

<sup>18115</sup>  
120  
g-index

249  
all docs

249  
docs citations

249  
times ranked

17184  
citing authors

#	ARTICLE	IF	CITATIONS
1	Seven new loci associated with age-related macular degeneration. <i>Nature Genetics</i> , 2013, 45, 433-439.	9.4	687
2	Crx, a Novel Otx-like Paired-Homeodomain Protein, Binds to and Transactivates Photoreceptor Cell-Specific Genes. <i>Neuron</i> , 1997, 19, 1017-1030.	3.8	641
3	Genetic variants near <i>TIMP3</i> and high-density lipoprotein-associated loci influence susceptibility to age-related macular degeneration. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 7401-7406.	3.3	475
4	Genome-wide association study of advanced age-related macular degeneration identifies a role of the hepatic lipase gene ( <i>LIPC</i> ). <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 7395-7400.	3.3	406
5	A locus control region adjacent to the human red and green visual pigment genes. <i>Neuron</i> , 1992, 9, 429-440.	3.8	390
6	A 5-bp deletion in <i>ELOVL4</i> is associated with two related forms of autosomal dominant macular dystrophy. <i>Nature Genetics</i> , 2001, 27, 89-93.	9.4	370
7	Gene Therapy with Brain-Derived Neurotrophic Factor As a Protection: Retinal Ganglion Cells in a Rat Glaucoma Model. , 2003, 44, 4357.		336
8	TiGER: A database for tissue-specific gene expression and regulation. <i>BMC Bioinformatics</i> , 2008, 9, 271.	1.2	336
9	Pigment epithelium-derived factor inhibits retinal and choroidal neovascularization. <i>Journal of Cellular Physiology</i> , 2001, 188, 253-263.	2.0	326
10	A rare penetrant mutation in <i>CFH</i> confers high risk of age-related macular degeneration. <i>Nature Genetics</i> , 2011, 43, 1232-1236.	9.4	291
11	De novo mutations in the <i>CRX</i> homeobox gene associated with Leber congenital amaurosis. <i>Nature Genetics</i> , 1998, 18, 311-312.	9.4	276
12	Common Variants at 9p21 and 8q22 Are Associated with Increased Susceptibility to Optic Nerve Degeneration in Glaucoma. <i>PLoS Genetics</i> , 2012, 8, e1002654.	1.5	276
13	Mutations in the Cone-Rod Homeobox Gene Are Associated with the Cone-Rod Dystrophy Photoreceptor Degeneration. <i>Neuron</i> , 1997, 19, 1329-1336.	3.8	250
14	Functional genomic screening identifies dual leucine zipper kinase as a key mediator of retinal ganglion cell death. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 4045-4050.	3.3	239
15	Common variants near <i>FRK/COL10A1</i> and <i>VEGFA</i> are associated with advanced age-related macular degeneration. <i>Human Molecular Genetics</i> , 2011, 20, 3699-3709.	1.4	232
16	Pigment epithelium-derived factor suppresses ischemia-induced retinal neovascularization and VEGF-induced migration and growth. <i>Investigative Ophthalmology and Visual Science</i> , 2002, 43, 821-9.	3.3	230
17	Genome-wide association analysis identifies <i>TXNRD2</i> , <i>ATXN2</i> and <i>FOXC1</i> as susceptibility loci for primary open-angle glaucoma. <i>Nature Genetics</i> , 2016, 48, 189-194.	9.4	211
18	Toll-like Receptor 3 and Geographic Atrophy in Age-Related Macular Degeneration. <i>New England Journal of Medicine</i> , 2008, 359, 1456-1463.	13.9	209

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19	A mutation in NRL is associated with autosomal dominant retinitis pigmentosa. <i>Nature Genetics</i> , 1999, 21, 355-356.	9.4	205
20	Photoreceptor Outer Segment-like Structures in Long-Term 3D Retinas from Human Pluripotent Stem Cells. <i>Scientific Reports</i> , 2017, 7, 766.	1.6	205
21	Reproducibility and staging of 3D human retinal organoids across multiple pluripotent stem cell lines. <i>Development (Cambridge)</i> , 2019, 146, .	1.2	203
22	Effect of CNTF on Retinal Ganglion Cell Survival in Experimental Glaucoma. , 2009, 50, 2194.		195
23	Unusual topography of bovine rhodopsin promoter-lacZ fusion gene expression in transgenic mouse retinas. <i>Neuron</i> , 1991, 6, 187-199.	3.8	191
24	Myelination transition zone astrocytes are constitutively phagocytic and have synuclein dependent reactivity in glaucoma. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 1176-1181.	3.3	189
25	The Leucine Zipper of NRL Interacts with the CRX Homeodomain. <i>Journal of Biological Chemistry</i> , 2000, 275, 29794-29799.	1.6	188
26	Thyroid hormone signaling specifies cone subtypes in human retinal organoids. <i>Science</i> , 2018, 362, .	6.0	188
27	The basic motif-leucine zipper transcription factor Nrl can positively regulate rhodopsin gene expression.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1996, 93, 191-195.	3.3	187
28	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
29	Oncomodulin links inflammation to optic nerve regeneration. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 19587-19592.	3.3	177
30	Inactivation of the microRNA <i>-183/96/182</i> cluster results in syndromic retinal degeneration. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, E507-16.	3.3	173
31	The Pex1-G844D mouse: A model for mild human Zellweger spectrum disorder. <i>Molecular Genetics and Metabolism</i> , 2014, 111, 522-532.	0.5	170
32	Single-Cell Analysis of Human Retina Identifies Evolutionarily Conserved and Species-Specific Mechanisms Controlling Development. <i>Developmental Cell</i> , 2020, 53, 473-491.e9.	3.1	170
33	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. <i>Human Molecular Genetics</i> , 1999, 8, 299-305.	1.4	169
34	Inherited Retinal Degenerations: Current Landscape and Knowledge Gaps. <i>Translational Vision Science and Technology</i> , 2018, 7, 6.	1.1	168
35	AAV-mediated gene transfer of pigment epithelium-derived factor inhibits choroidal neovascularization. <i>Investigative Ophthalmology and Visual Science</i> , 2002, 43, 1994-2000.	3.3	168
36	Inducible Expression of Vascular Endothelial Growth Factor in Adult Mice Causes Severe Proliferative Retinopathy and Retinal Detachment. <i>American Journal of Pathology</i> , 2002, 160, 711-719.	1.9	166

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37	Rin, a Neuron-Specific and Calmodulin-Binding Small G-Protein, and Rit Define a Novel Subfamily of Ras Proteins. <i>Journal of Neuroscience</i> , 1996, 16, 6784-6794.	1.7	164
38	A functional variant in the CFI gene confers a high risk of age-related macular degeneration. <i>Nature Genetics</i> , 2013, 45, 813-817.	9.4	162
39	Changes in Gene Expression in Experimental Glaucoma and Optic Nerve Transection: The Equilibrium between Protective and Detrimental Mechanisms. , 2007, 48, 5539.		157
40	Construction of human activityâ€­based phosphorylation networks. <i>Molecular Systems Biology</i> , 2013, 9, 655.	3.2	153
41	Cloning and Characterization of a Human Î²,Î²-Carotene-15, 15â€­Dioxygenase That Is Highly Expressed in the Retinal Pigment Epithelium. <i>Genomics</i> , 2001, 72, 193-202.	1.3	152
42	Differentiation of human ESCs to retinal ganglion cells using a CRISPR engineered reporter cell line. <i>Scientific Reports</i> , 2015, 5, 16595.	1.6	142
43	Computational analysis of tissue-specific combinatorial gene regulation: predicting interaction between transcription factors in human tissues. <i>Nucleic Acids Research</i> , 2006, 34, 4925-4936.	6.5	134
44	Characterization of tissue-specific differential DNA methylation suggests distinct modes of positive and negative gene expression regulation. <i>BMC Genomics</i> , 2015, 16, 49.	1.2	132
45	Three-Dimensional Retinal Organoids Facilitate the Investigation of Retinal Ganglion Cell Development, Organization and Neurite Outgrowth from Human Pluripotent Stem Cells. <i>Scientific Reports</i> , 2018, 8, 14520.	1.6	130
46	The bZIP Transcription Factor Nrl Stimulates Rhodopsin Promoter Activity in Primary Retinal Cell Cultures. <i>Journal of Biological Chemistry</i> , 1996, 271, 29612-29618.	1.6	128
47	ATAC-Seq analysis reveals a widespread decrease of chromatin accessibility in age-related macular degeneration. <i>Nature Communications</i> , 2018, 9, 1364.	5.8	124
48	Increased Expression of Brain-Derived Neurotrophic Factor Preserves Retinal Function and Slows Cell Death from Rhodopsin Mutation or Oxidative Damage. <i>Journal of Neuroscience</i> , 2003, 23, 4164-4172.	1.7	122
49	Enhanced Functional Genomic Screening Identifies Novel Mediators of Dual Leucine Zipper Kinase-Dependent Injury Signaling in Neurons. <i>Neuron</i> , 2017, 94, 1142-1154.e6.	3.8	118
50	Identification and Functional Consequences of a New Mutation (E155G) in the Gene for GCAP1 That Causes Autosomal Dominant Cone Dystrophy. <i>American Journal of Human Genetics</i> , 2001, 69, 471-480.	2.6	115
51	Small-moleculeâ€­directed, efficient generation of retinal pigment epithelium from human pluripotent stem cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 10950-10955.	3.3	114
52	A Splice-Site Mutation in a Retina-Specific Exon of BBS8 Causes Nonsyndromic Retinitis Pigmentosa. <i>American Journal of Human Genetics</i> , 2010, 86, 805-812.	2.6	109
53	Different effects of angiopoietinâ€­2 in different vascular beds in the eye: new vessels are most sensitive. <i>FASEB Journal</i> , 2005, 19, 963-965.	0.2	105
54	Angiopoietin 1 inhibits ocular neovascularization and breakdown of the bloodâ€­retinal barrier. <i>Gene Therapy</i> , 2004, 11, 865-873.	2.3	102

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55	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
56	Genetic and Functional Dissection of HTRA1 and LOC387715 in Age-Related Macular Degeneration. PLoS Genetics, 2010, 6, e1000836.	1.5	101
57	Retinal Ganglion Cell Morphology after Optic Nerve Crush and Experimental Glaucoma. , 2012, 53, 3847.		101
58	Enhanced Stem Cell Differentiation and Immunopurification of Genome Engineered Human Retinal Ganglion Cells. Stem Cells Translational Medicine, 2017, 6, 1972-1986.	1.6	101
59	MicroRNA Profile of the Developing Mouse Retina. , 2010, 51, 1823.		98
60	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
61	Genome-wide association study and meta-analysis of intraocular pressure. Human Genetics, 2014, 133, 41-57.	1.8	93
62	Increased Expression of Iron-Regulating Genes in Monkey and Human Glaucoma. Investigative Ophthalmology and Visual Science, 2004, 45, 1410-1417.	3.3	91
63	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
64	Apoptosis in ocular disease: a molecular overview. Ophthalmic Genetics, 1996, 17, 145-165.	0.5	89
65	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
66	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
67	Identification of Gene Expression Changes Associated with the Progression of Retinal Degeneration in the rd1 Mouse. , 2004, 45, 2929.		88
68	The Iron Carrier Transferrin Is Upregulated in Retinas from Patients with Age-Related Macular Degeneration. , 2006, 47, 2135.		88
69	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
70	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
71	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
72	Generation of Cre Transgenic Mice with Postnatal RPE-Specific Ocular Expression. , 2011, 52, 1378.		85

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73	Vitreous levels of pigment epithelium-derived factor and vascular endothelial growth factor: implications for ocular angiogenesis. <i>American Journal of Ophthalmology</i> , 2004, 137, 668-674.	1.7	81
74	Analysis of regulatory network topology reveals functionally distinct classes of microRNAs. <i>Nucleic Acids Research</i> , 2008, 36, 6494-6503.	6.5	81
75	Characteristics of Progenitor Cells Derived from Adult Ciliary Body in Mouse, Rat, and Human Eyes. , 2007, 48, 1674.		80
76	Fibroblast Growth Factor-2 Decreases Hyperoxia-Induced Photoreceptor Cell Death in Mice. <i>American Journal of Pathology</i> , 2001, 159, 1113-1120.	1.9	77
77	Conditional knockdown of DNA methyltransferase 1 reveals a key role of retinal pigment epithelium integrity in photoreceptor outer segment morphogenesis. <i>Development (Cambridge)</i> , 2013, 140, 1330-1341.	1.2	77
78	Baicalein reduces E46K $\alpha$ -synuclein aggregation <i>in vitro</i> and protects cells against E46K $\alpha$ -synuclein toxicity in cell models of familial Parkinsonism. <i>Journal of Neurochemistry</i> , 2010, 114, 419-429.	2.1	76
79	CDKN2B-AS1 Genotype $\alpha$ -Glaucoma Feature Correlations in Primary Open-Angle Glaucoma Patients From the United States. <i>American Journal of Ophthalmology</i> , 2013, 155, 342-353.e5.	1.7	76
80	Nonviral ocular gene transfer. <i>Gene Therapy</i> , 2005, 12, 843-851.	2.3	75
81	Alternative splicing and retinal degeneration. <i>Clinical Genetics</i> , 2013, 84, 142-149.	1.0	74
82	QRX, a novel homeobox gene, modulates photoreceptor gene expression. <i>Human Molecular Genetics</i> , 2004, 13, 1025-1040.	1.4	73
83	Inducible Expression of Cre Recombinase in the Retinal Pigmented Epithelium. , 2008, 49, 1248.		73
84	Heritability and Genome-Wide Association Study to Assess Genetic Differences between Advanced Age-related Macular Degeneration Subtypes. <i>Ophthalmology</i> , 2012, 119, 1874-1885.	2.5	73
85	Cornea organoids from human induced pluripotent stem cells. <i>Scientific Reports</i> , 2017, 7, 41286.	1.6	73
86	Neurotrophic Signaling in Normal and Degenerating Rodent Retinas. <i>Experimental Eye Research</i> , 2001, 73, 693-701.	1.2	70
87	Expression and permeation properties of the K <sup>+</sup> channel Kir7.1 in the retinal pigment epithelium. <i>Journal of Physiology</i> , 2001, 531, 329-346.	1.3	70
88	Gelling hypotonic polymer solution for extended topical drug delivery to the eye. <i>Nature Biomedical Engineering</i> , 2020, 4, 1053-1062.	11.6	69
89	In vivo micropathology of Best macular dystrophy with optical coherence tomography. <i>Experimental Eye Research</i> , 2003, 76, 203-211.	1.2	68
90	Genome-wide prediction and characterization of interactions between transcription factors in <i>Saccharomyces cerevisiae</i> . <i>Nucleic Acids Research</i> , 2006, 34, 917-927.	6.5	68

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91	Functional analysis of cone-rod homeobox (CRX) mutations associated with retinal dystrophy. <i>Human Molecular Genetics</i> , 2002, 11, 873-884.	1.4	67
92	Mutation in the $\beta$ A3/A1-crystallin gene impairs phagosome degradation in the retinal pigmented epithelium of the rat. <i>Journal of Cell Science</i> , 2011, 124, 523-531.	1.2	66
93	$\beta$ A3/A1-crystallin in astroglial cells regulates retinal vascular remodeling during development. <i>Molecular and Cellular Neurosciences</i> , 2008, 37, 85-95.	1.0	64
94	Functional Domains of the Cone-Rod Homeobox (CRX) Transcription Factor. <i>Journal of Biological Chemistry</i> , 2000, 275, 37264-37270.	1.6	63
95	Mammalian Homolog of <i>Drosophila</i> retinal degeneration B Rescues the Mutant Fly Phenotype. <i>Journal of Neuroscience</i> , 1997, 17, 5881-5890.	1.7	62
96	Differential DNA methylation identified in the blood and retina of AMD patients. <i>Epigenetics</i> , 2015, 10, 698-707.	1.3	62
97	Investigating cone photoreceptor development using patient-derived NRL null retinal organoids. <i>Communications Biology</i> , 2020, 3, 82.	2.0	62
98	Murine and Bovine Blue Cone Pigment Genes: Cloning and Characterization of Two New Members of the S Family of Visual Pigments. <i>Genomics</i> , 1994, 21, 440-443.	1.3	61
99	Expansion of the CRISPR-Cas9 genome targeting space through the use of H1 promoter-expressed guide RNAs. <i>Nature Communications</i> , 2014, 5, 4516.	5.8	60
100	Identification of regulatory targets of tissue-specific transcription factors: application to retina-specific gene regulation. <i>Nucleic Acids Research</i> , 2005, 33, 3479-3491.	6.5	59
101	Prolonged blockade of VEGF family members does not cause identifiable damage to retinal neurons or vessels. <i>Journal of Cellular Physiology</i> , 2008, 217, 13-22.	2.0	59
102	Role of SARM1 and DR6 in retinal ganglion cell axonal and somal degeneration following axonal injury. <i>Experimental Eye Research</i> , 2018, 171, 54-61.	1.2	57
103	Cell-Specific DNA Methylation Patterns of Retina-Specific Genes. <i>PLoS ONE</i> , 2012, 7, e32602.	1.1	55
104	The NEIGHBOR Consortium Primary Open-Angle Glaucoma Genome-wide Association Study. <i>Journal of Glaucoma</i> , 2013, 22, 517-525.	0.8	55
105	Single cell RNA sequencing of stem cell-derived retinal ganglion cells. <i>Scientific Data</i> , 2018, 5, 180013.	2.4	55
106	Ret 4, a Positive Acting Rhodopsin Regulatory Element Identified Using a Bovine Retina in Vitro Transcription System. <i>Journal of Biological Chemistry</i> , 1996, 271, 28549-28557.	1.6	54
107	Functional Analysis of the Rod Photoreceptor cGMP Phosphodiesterase $\beta$ -Subunit Gene Promoter. <i>Journal of Biological Chemistry</i> , 2004, 279, 19800-19807.	1.6	54
108	High-throughput and high-content bioassay enables tuning of polyester nanoparticles for cellular uptake, endosomal escape, and systemic in vivo delivery of mRNA. <i>Science Advances</i> , 2022, 8, eabk2855.	4.7	54

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109	Identification of Novel Genes Preferentially Expressed in the Retina Using a Custom Human Retina cDNA Microarray. , 2003, 44, 3732.		53
110	Genome-Wide Analysis of Central Corneal Thickness in Primary Open-Angle Glaucoma Cases in the NEIGHBOR and GLAUGEN Consortia. , 2012, 53, 4468.		52
111	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
112	The challenge of regenerative therapies for the optic nerve in glaucoma. Experimental Eye Research, 2017, 157, 28-33.	1.2	52
113	CHX10 Targets a Subset of Photoreceptor Genes. Journal of Biological Chemistry, 2006, 281, 744-751.	1.6	51
114	The Potential of Human Stem Cells for the Study and Treatment of Glaucoma. , 2016, 57, ORSFi1.		51
115	RER, an Evolutionarily Conserved Sequence Upstream of the Rhodopsin Gene, Has Enhancer Activity. Journal of Biological Chemistry, 1996, 271, 2667-2675.	1.6	50
116	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
117	BEST1 expression in the retinal pigment epithelium is modulated by OTX family members. Human Molecular Genetics, 2009, 18, 128-141.	1.4	49
118	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
119	Glial pathology and retinal neurotoxicity in the anterior visual pathway in experimental autoimmune encephalomyelitis. Acta Neuropathologica Communications, 2019, 7, 125.	2.4	47
120	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
121	Gene expression variation in the adult human retina. Human Molecular Genetics, 2003, 12, 2881-2893.	1.4	46
122	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
123	Assessing the Association of Mitochondrial Genetic Variation With Primary Open-Angle Glaucoma Using Gene-Set Analyses. , 2016, 57, 5046.		44
124	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
125	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
126	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



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127	A Common Variant in <i>MIR182</i> Is Associated With Primary Open-Angle Glaucoma in the NEIGHBORHOOD Consortium. , 2016, 57, 4528.		42
128	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
129	Prolonged blockade of VEGF receptors does not damage retinal photoreceptors or ganglion cells. Journal of Cellular Physiology, 2010, 224, 262-272.	2.0	41
130	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
131	The homeobox gene CHX10/VSX2 regulates RdCVF promoter activity in the inner retina. Human Molecular Genetics, 2010, 19, 250-261.	1.4	40
132	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
133	Complement component 3 from astrocytes mediates retinal ganglion cell loss during neuroinflammation. Acta Neuropathologica, 2021, 142, 899-915.	3.9	39
134	Human Organoids for the Study of Retinal Development and Disease. Annual Review of Vision Science, 2020, 6, 91-114.	2.3	38
135	Roles of cell-intrinsic and microenvironmental factors in photoreceptor cell differentiation. Developmental Biology, 2005, 286, 31-45.	0.9	37
136	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
137	BNIP3L-mediated mitophagy is required for mitochondrial remodeling during the differentiation of optic nerve oligodendrocytes. Autophagy, 2021, 17, 3140-3159.	4.3	37
138	Gene Expression Profiling of Purified Rat Retinal Ganglion Cells. , 2004, 45, 2503.		36
139	A method for analysis of gene expression in isolated mouse photoreceptor and Müller cells. Molecular Vision, 2004, 10, 366-75.	1.1	35
140	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
141	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
142	Dynamic usage of alternative splicing exons during mouse retina development. Nucleic Acids Research, 2011, 39, 7920-7930.	6.5	33
143	Epigenetics and Cell Death: DNA Hypermethylation in Programmed Retinal Cell Death. PLoS ONE, 2013, 8, e79140.	1.1	33
144	Platelet-Derived Growth Factor-A-Induced Retinal Gliosis Protects against Ischemic Retinopathy. American Journal of Pathology, 2000, 156, 477-487.	1.9	32

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145	Hypothesis-independent pathway analysis implicates GABA and Acetyl-CoA metabolism in primary open-angle glaucoma and normal-pressure glaucoma. <i>Human Genetics</i> , 2014, 133, 1319-1330.	1.8	32
146	Association of a Primary Open-Angle Glaucoma Genetic Risk Score With Earlier Age at Diagnosis. <i>JAMA Ophthalmology</i> , 2019, 137, 1190.	1.4	32
147	Transcriptome analysis of the retina. <i>Genome Biology</i> , 2002, 3, reviews1022.1.	13.9	31
148	Screening and Characterization of Drugs That Protect Corneal Endothelial Cells Against Unfolded Protein Response and Oxidative Stress. , 2017, 58, 892.		31
149	Stem Cells, Retinal Ganglion Cells and Glaucoma. <i>Developments in Ophthalmology</i> , 2014, 53, 111-121.	0.1	30
150	Bone morphogenetic proteins promote neurite outgrowth in retinal ganglion cells. <i>Molecular Vision</i> , 2005, 11, 208-15.	1.1	30
151	Sequence and expression analysis of bovine pigment epithelium-derived factor. <i>Biochimica Et Biophysica Acta Gene Regulatory Mechanisms</i> , 1998, 1398, 203-214.	2.4	28
152	Transcriptional Regulation of Cellular Retinaldehyde-binding Protein in the Retinal Pigment Epithelium. <i>Journal of Biological Chemistry</i> , 1998, 273, 5591-5598.	1.6	27
153	Clinical and genetic studies of an autosomal dominant cone-rod dystrophy with features of Stargardt disease. <i>Ophthalmic Genetics</i> , 1999, 20, 71-81.	0.5	27
154	Krüppel-like Factor 15, a Zinc-Finger Transcriptional Regulator, Represses the Rhodopsin and Interphotoreceptor Retinoid-Binding Protein Promoters. , 2004, 45, 2522.		27
155	Identification of tissue-specific cis-regulatory modules based on interactions between transcription factors. <i>BMC Bioinformatics</i> , 2007, 8, 437.	1.2	27
156	DNA Copy Number Variants of Known Glaucoma Genes in Relation to Primary Open-Angle Glaucoma. <i>Investigative Ophthalmology and Visual Science</i> , 2014, 55, 8251-8258.	3.3	27
157	A novel RDS/peripherin gene mutation associated with diverse macular phenotypes. <i>Ophthalmic Genetics</i> , 2004, 25, 133-145.	0.5	26
158	Sustained expression after nonviral ocular gene transfer using mammalian promoters. <i>Gene Therapy</i> , 2006, 13, 798-804.	2.3	26
159	Computational analysis of tissue-specific gene networks: application to murine retinal functional studies. <i>Bioinformatics</i> , 2010, 26, 2289-2297.	1.8	26
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