Anand Swaroop

List of Publications by Year
in descending order

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346 papers	34,100 citations	4960 84 h-index	5679 162 g-index
363 all docs	363 docs citations	363 times ranked	33132 citing authors

#	Article	IF	Citations
1	Next-generation genotype imputation service and methods. Nature Genetics, 2016, 48, 1284-1287.	21.4	2,828
2	A reference panel of 64,976 haplotypes for genotype imputation. Nature Genetics, 2016, 48, 1279-1283.	21.4	2,421
3	A large genome-wide association study of age-related macular degeneration highlights contributions of rare and common variants. Nature Genetics, 2016, 48, 134-143.	21.4	1,167
4	Retinal repair by transplantation of photoreceptor precursors. Nature, 2006, 444, 203-207.	27.8	999
5	Positional cloning and characterization of a paired box- and homeobox-containing gene from the aniridia region. Cell, 1991, 67, 1059-1074.	28.9	810
6	Nrl is required for rod photoreceptor development. Nature Genetics, 2001, 29, 447-452.	21.4	795
7	Seven new loci associated with age-related macular degeneration. Nature Genetics, 2013, 45, 433-439.	21.4	687
8	The centrosomal protein nephrocystin-6 is mutated in Joubert syndrome and activates transcription factor ATF4. Nature Genetics, 2006, 38, 674-681.	21.4	535
9	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.	7.1	475
10	Transcriptional regulation of photoreceptor development and homeostasis in the mammalian retina. Nature Reviews Neuroscience, 2010, 11, 563-576.	10.2	465
11	A variant of mitochondrial protein LOC387715/ARMS2, not HTRA1, is strongly associated with age-related macular degeneration. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 16227-16232.	7.1	398
12	Age-Related Macular Degeneration: Genetics and Biology Coming Together. Annual Review of Genomics and Human Genetics, 2014, 15, 151-171.	6.2	394
13	Nephrocystin-5, a ciliary IQ domain protein, is mutated in Senior-Loken syndrome and interacts with RPGR and calmodulin. Nature Genetics, 2005, 37, 282-288.	21.4	367
14	Mutation of a Gene Encoding a Protein with Extracellular Matrix Motifs in Usher Syndrome Type IIa. Science, 1998, 280, 1753-1757.	12.6	366
15	In-frame deletion in a novel centrosomal/ciliary protein CEP290/NPHP6 perturbs its interaction with RPGR and results in early-onset retinal degeneration in the rd16 mouse. Human Molecular Genetics, 2006, 15, 1847-1857.	2.9	353
16	Strong Association of the Y402H Variant in Complement Factor H at 1q32 with Susceptibility to Age-Related Macular Degeneration. American Journal of Human Genetics, 2005, 77, 149-153.	6.2	327
17	CFH haplotypes without the Y402H coding variant show strong association with susceptibility to age-related macular degeneration. Nature Genetics, 2006, 38, 1049-1054.	21.4	318
18	Targeting of GFP to newborn rods by Nrl promoter and temporal expression profiling of flow-sorted photoreceptors. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 3890-3895.	7.1	310

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19	A common allele in RPGRIP1L is a modifier of retinal degeneration in ciliopathies. Nature Genetics, 2009, 41, 739-745.	21.4	255
20	Unraveling a Multifactorial Late-Onset Disease: From Genetic Susceptibility to Disease Mechanisms for Age-Related Macular Degeneration. Annual Review of Genomics and Human Genetics, 2009, 10, 19-43.	6.2	254
21	Mutations in the Cone-Rod Homeobox Gene Are Associated with the Cone-Rod Dystrophy Photoreceptor Degeneration. Neuron, 1997, 19, 1329-1336.	8.1	250
22	Transcriptome analysis and molecular signature of human retinal pigment epithelium. Human Molecular Genetics, 2010, 19, 2468-2486.	2.9	249
23	E2-2 Protein and Fuchs's Corneal Dystrophy. New England Journal of Medicine, 2010, 363, 1016-1024.	27.0	247
24	High-Resolution Imaging with Adaptive Optics in Patients with Inherited Retinal Degeneration. , 2007, 48, 3283.		241
25	Gene therapy rescues photoreceptor blindness in dogs and paves the way for treating human X-linked retinitis pigmentosa. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 2132-2137.	7.1	237
26	Nrl knockdown by AAV-delivered CRISPR/Cas9 prevents retinal degeneration in mice. Nature Communications, 2017, 8, 14716.	12.8	231
27	CP110 Suppresses Primary Cilia Formation through Its Interaction with CEP290, a Protein Deficient in Human Ciliary Disease. Developmental Cell, 2008, 15, 187-197.	7.0	228
28	Photoreceptor-specific nuclear receptor NR2E3 functions as a transcriptional activator in rod photoreceptors. Human Molecular Genetics, 2004, 13, 1563-1575.	2.9	226
29	A Comprehensive Mutation Analysis of RP2 and RPGR in a North American Cohort of Families with X-Linked Retinitis Pigmentosa. American Journal of Human Genetics, 2002, 70, 1545-1554.	6.2	224
30	Meta-analysis of genome scans of age-related macular degeneration. Human Molecular Genetics, 2005, 14, 2257-2264.	2.9	224
31	MicroRNAâ€204/211 alters epithelial physiology. FASEB Journal, 2010, 24, 1552-1571.	0.5	218
32	Biology and therapy of inherited retinal degenerative disease: insights from mouse models. DMM Disease Models and Mechanisms, 2015, 8, 109-129.	2.4	207
33	A mutation in NRL is associated with autosomal dominant retinitis pigmentosa. Nature Genetics, 1999, 21, 355-356.	21.4	205
34	Molecular Anatomy of the Developing Human Retina. Developmental Cell, 2017, 43, 763-779.e4.	7.0	205
35	Retinal transcriptome and eQTL analyses identify genes associated with age-related macular degeneration. Nature Genetics, 2019, 51, 606-610.	21.4	201
36	Cone-like Morphological, Molecular, and Electrophysiological Features of the Photoreceptors of theNrlKnockout Mouse. , 2005, 46, 2156.		190

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37	The Leucine Zipper of NRL Interacts with the CRX Homeodomain. Journal of Biological Chemistry, 2000, 275, 29794-29799.	3.4	188
38	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.	7.1	187
39	Toll-like receptor 4 variant D299G is associated with susceptibility to age-related macular degeneration. Human Molecular Genetics, 2005, 14, 1449-1455.	2.9	177
40	Gene expression signatures and biomarkers of noninvasive and invasive breast cancer cells: comprehensive profiles by representational difference analysis, microarrays and proteomics. Oncogene, 2006, 25, 2328-2338.	5.9	175
41	Mutation in a short-chain collagen gene, CTRP5 , results in extracellular deposit formation in late-onset retinal degeneration: a genetic model for age-related macular degeneration. Human Molecular Genetics, 2003, 12, 2657-2667.	2.9	172
42	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.	2.9	169
43	Genetic susceptibility to age-related macular degeneration: a paradigm for dissecting complex disease traits. Human Molecular Genetics, 2007, 16, R174-R182.	2.9	168
44	Accelerated and Improved Differentiation of Retinal Organoids from Pluripotent Stem Cells in Rotating-Wall Vessel Bioreactors. Stem Cell Reports, 2018, 10, 300-313.	4.8	168
45	Identification of a rare coding variant in complement 3 associated with age-related macular degeneration. Nature Genetics, 2013, 45, 1375-1379.	21.4	158
46	Expression profiling of the developing and mature Nrl â˜'/â˜' mouse retina: identification of retinal disease candidates and transcriptional regulatory targets of Nrl. Human Molecular Genetics, 2004, 13, 1487-1503.	2.9	157
47	Age-Related Macular Degeneration: A High-Resolution Genome Scan for Susceptibility Loci in a Population Enriched for Late-Stage Disease. American Journal of Human Genetics, 2004, 74, 482-494.	6.2	157
48	Molecular analysis of the cDNA for human SPARC/osteonectin/BM-40: Sequence, expression, and localization of the gene to chromosome 5q31-q33. Genomics, 1988, 2, 37-47.	2.9	154
49	RPGR-ORF15, Which Is Mutated in Retinitis Pigmentosa, Associates with SMC1, SMC3, and Microtubule Transport Proteins. Journal of Biological Chemistry, 2005, 280, 33580-33587.	3.4	154
50	Transcriptome Dynamics of Developing Photoreceptors in Three-Dimensional Retina Cultures Recapitulates Temporal Sequence of Human Cone and Rod Differentiation Revealing Cell Surface Markers and Gene Networks. Stem Cells, 2015, 33, 3504-3518.	3.2	153
51	Centrosomal-ciliary geneCEP290/NPHP6 mutations result in blindness with unexpected sparing of photoreceptors and visual brain: implications for therapy of Leber congenital amaurosis. Human Mutation, 2007, 28, 1074-1083.	2.5	148
52	Free radical scavenging, antioxidant and cancer chemoprevention by grape seed proanthocyanidin: An overview. Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis, 2014, 768, 69-73.	1.0	148
53	Hypomorphic CEP290/NPHP6 mutations result in anosmia caused by the selective loss of G proteins in cilia of olfactory sensory neurons. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 15917-15922.	7.1	144
54	Biomarkers of Cardiovascular Disease as Risk Factors for Age-Related Macular Degeneration. Ophthalmology, 2005, 112, 2076-2080.	5.2	143

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55	Transformation of cone precursors to functional rod photoreceptors by bZIP transcription factor NRL. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 1679-1684.	7.1	136
56	Ancestry estimation and control of population stratification for sequence-based association studies. Nature Genetics, 2014, 46, 409-415.	21.4	136
57	Photoreceptor sensory cilia and ciliopathies: focus on CEP290, RPGR and their interacting proteins. Cilia, 2012, 1, 22.	1.8	131
58	Evidence of association ofAPOEwith age-related macular degeneration - a pooled analysis of 15 studies. Human Mutation, 2011, 32, 1407-1416.	2.5	130
59	Association of Apolipoprotein E Alleles with Susceptibility to Age-Related Macular Degeneration in a Large Cohort from a Single Center. Investigative Ophthalmology and Visual Science, 2004, 45, 1306-1310.	3.3	129
60	The bZIP Transcription Factor Nrl Stimulates Rhodopsin Promoter Activity in Primary Retinal Cell Cultures. Journal of Biological Chemistry, 1996, 271, 29612-29618.	3.4	128
61	Progression of Geographic Atrophy in Age-related Macular Degeneration. Ophthalmology, 2018, 125, 1913-1928.	5.2	127
62	Photoreceptors of Nrl â^'/â^' Mice Coexpress Functional S- and M-cone Opsins Having Distinct Inactivation Mechanisms. Journal of General Physiology, 2005, 125, 287-304.	1.9	125
63	InÂVitro Modeling Using Ciliopathy-Patient-Derived Cells Reveals Distinct Cilia Dysfunctions Caused by CEP290 Mutations. Cell Reports, 2017, 20, 384-396.	6.4	120
64	Cone photoreceptors are the main targets for gene therapy of NPHP5 (IQCB1) or NPHP6 (CEP290) blindness: generation of an all-cone Nphp6 hypomorph mouse that mimics the human retinal ciliopathy. Human Molecular Genetics, 2011, 20, 1411-1423.	2.9	115
65	Retinoid-related orphan nuclear receptor RORÎ² is an early-acting factor in rod photoreceptor development. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 17534-17539.	7.1	114
66	In vivo function of the orphan nuclear receptor NR2E3 in establishing photoreceptor identity during mammalian retinal development. Human Molecular Genetics, 2006, 15, 2588-2602.	2.9	113
67	Barrier to Autointegration Factor Interacts with the Cone-Rod Homeobox and Represses Its Transactivation Function. Journal of Biological Chemistry, 2002, 277, 43288-43300.	3.4	112
68	Premature Truncation of a Novel Protein, RD3, Exhibiting Subnuclear Localization Is Associated with Retinal Degeneration. American Journal of Human Genetics, 2006, 79, 1059-1070.	6.2	112
69	Mutations inRPGRandRP2Account for 15% of Males with Simplex Retinal Degenerative Disease. , 2012, 53, 8232.		108
70	Multiple Phosphorylated Isoforms of NRL Are Expressed in Rod Photoreceptors. Journal of Biological Chemistry, 2001, 276, 36824-36830.	3.4	107
71	Inner Retinal Abnormalities in X-linked Retinitis Pigmentosa withRPGRMutations. , 2007, 48, 4759.		107
72	GRK1-Dependent Phosphorylation of S and M Opsins and Their Binding to Cone Arrestin during Cone Phototransduction in the Mouse Retina. Journal of Neuroscience, 2003, 23, 6152-6160.	3.6	105

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73	Rod differentiation factor NRL activates the expression of nuclear receptor NR2E3 to suppress the development of cone photoreceptors. Brain Research, 2008, 1236, 16-29.	2.2	105
74	CEP290 alleles in mice disrupt tissue-specific cilia biogenesis and recapitulate features of syndromic ciliopathies. Human Molecular Genetics, 2015, 24, 3775-3791.	2.9	105
75	Epigenetic control of gene regulation during development and disease: A view from the retina. Progress in Retinal and Eye Research, 2018, 65, 1-27.	15.5	105
76	Quantification of Oxygen Consumption in Retina Ex Vivo Demonstrates Limited Reserve Capacity of Photoreceptor Mitochondria. , 2015, 56, 8428.		104
77	NRL-Regulated Transcriptome Dynamics of Developing Rod Photoreceptors. Cell Reports, 2016, 17, 2460-2473.	6.4	104
78	Long-term survival and differentiation of retinal neurons derived from human embryonic stem cell lines in un-immunosuppressed mouse retina. Molecular Vision, 2012, 18, 920-36.	1.1	104
79	RPGR ORF15 isoform co-localizes with RPGRIP1 at centrioles and basal bodies and interacts with nucleophosmin. Human Molecular Genetics, 2005, 14, 1183-1197.	2.9	103
80	Recruitment of Rod Photoreceptors from Short-Wavelength-Sensitive Cones during the Evolution of Nocturnal Vision in Mammals. Developmental Cell, 2016, 37, 520-532.	7.0	103
81	Gene expression changes in aging retinal microglia: relationship to microglial support functions and regulation of activation. Neurobiology of Aging, 2013, 34, 2310-2321.	3.1	100
82	Transcriptional Regulation of Rod Photoreceptor Homeostasis Revealed by In Vivo NRL Targetome Analysis. PLoS Genetics, 2012, 8, e1002649.	3.5	99
83	MicroRNA Profile of the Developing Mouse Retina. , 2010, 51, 1823.		98
84	Developing Rods Transplanted into the Degenerating Retina of Crx-Knockout Mice Exhibit Neural Activity Similar to Native Photoreceptors. Stem Cells, 2013, 31, 1149-1159.	3.2	98
85	Defects in neural stem cell proliferation and olfaction in Chd7 deficient mice indicate a mechanism for hyposmia in human CHARGE syndrome. Human Molecular Genetics, 2009, 18, 1909-1923.	2.9	97
86	A comprehensive analysis of the expression of crystallins in mouse retina. Molecular Vision, 2003, 9, 410-9.	1.1	95
87	Nuclear receptor NR2E3 gene mutations distort human retinal laminar architecture and cause an unusual degeneration. Human Molecular Genetics, 2004, 13, 1893-1902.	2.9	94
88	Spectrum of Mutations in the RPGR Gene That Are Identified in 20% of Families with X-Linked Retinitis Pigmentosa. American Journal of Human Genetics, 1997, 61, 1287-1292.	6.2	93
89	Genome-wide association study and meta-analysis of intraocular pressure. Human Genetics, 2014, 133, 41-57.	3.8	93
90	Mutation analysis ofNR2E3 andNRL genes in Enhanced S Cone Syndrome. Human Mutation, 2004, 24, 439-439.	2.5	92

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91	Complement Factor D in Age-Related Macular Degeneration. , 2011, 52, 8828.		92
92	Interaction of retinitis pigmentosa GTPase regulator (RPGR) with RAB8A GTPase: implications for cilia dysfunction and photoreceptor degeneration. Human Molecular Genetics, 2010, 19, 3591-3598.	2.9	91
93	Mutations in a BTB-Kelch Protein, KLHL7, Cause Autosomal-Dominant Retinitis Pigmentosa. American Journal of Human Genetics, 2009, 84, 792-800.	6.2	89
94	Next-generation sequencing facilitates quantitative analysis of wild-type and Nrl(-/-) retinal transcriptomes. Molecular Vision, 2011, 17, 3034-54.	1.1	89
95	Recessive NRL mutations in patients with clumped pigmentary retinal degeneration and relative preservation of blue cone function. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 17819-17824.	7.1	88
96	No Clinically Significant Association between CFH and ARMS2 Genotypes and Response to Nutritional Supplements. Ophthalmology, 2014, 121, 2173-2180.	5.2	86
97	Variations in Apolipoprotein E Frequency With Age in a Pooled Analysis of a Large Group of Older People. American Journal of Epidemiology, 2011, 173, 1357-1364.	3.4	85
98	Chondroitinase ABC Treatment Enhances Synaptogenesis between Transplant and Host Neurons in Model of Retinal Degeneration. Cell Transplantation, 2007, 16, 493-503.	2.5	83
99	Pluripotent stem cell-derived retinal organoids for disease modeling and development of therapies. Stem Cells, 2020, 38, 1206-1215.	3.2	83
100	Expression of Photoreceptor-Specific Nuclear Receptor NR2E3 in Rod Photoreceptors of Fetal Human Retina. , 2004, 45, 2807.		82
101	Candidate Gene Association Study for Diabetic Retinopathy in Persons with Type 2 Diabetes: The Candidate Gene Association Resource (CARe). , 2011, 52, 7593.		82
102	The mRNA of a human class I gene HLA G/HLA 6.0 exhibits a restricted pattern of expression. Nucleic Acids Research, 1990, 18, 2189-2189.	14.5	81
103	Differential expression of novel GsÎ± signal transduction protein cDNA species. Nucleic Acids Research, 1991, 19, 4725-4729.	14.5	80
104	Toll-like Receptor Polymorphisms and Age-Related Macular Degeneration. , 2008, 49, 1652.		79
105	Complement factor H genetic variant and age-related macular degeneration: effect size, modifiers and relationship to disease subtype. International Journal of Epidemiology, 2012, 41, 250-262.	1.9	79
106	Loss of RPGR glutamylation underlies the pathogenic mechanism of retinal dystrophy caused by TTLL5 mutations. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, E2925-34.	7.1	79
107	Deep-learning-based prediction of late age-related macular degeneration progression. Nature Machine Intelligence, 2020, 2, 141-150.	16.0	79
108	Microarray analysis of gene expression in the aging human retina. Investigative Ophthalmology and Visual Science, 2002, 43, 2554-60.	3.3	79

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109	Protein-Truncation Mutations in the RP2 Gene in a North American Cohort of Families with X-Linked Retinitis Pigmentosa. American Journal of Human Genetics, 1999, 64, 897-900.	6.2	78
110	Centrosomal protein CP110 controls maturation of mother centriole during cilia biogenesis. Development (Cambridge), 2016, 143, 1491-501.	2.5	78
111	Recruitment of the Rod Pathway by Cones in the Absence of Rods. Journal of Neuroscience, 2004, 24, 7576-7582.	3.6	77
112	Mutations in TOPORS Cause Autosomal Dominant Retinitis Pigmentosa with Perivascular Retinal Pigment Epithelium Atrophy. American Journal of Human Genetics, 2007, 81, 1098-1103.	6.2	77
113	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.	2.5	77
114	Improved Retinal Organoid Differentiation by Modulating Signaling Pathways Revealed by Comparative Transcriptome Analyses with Development InÂVivo. Stem Cell Reports, 2019, 13, 891-905.	4.8	77
115	Human retinopathy-associated ciliary protein retinitis pigmentosa GTPase regulator mediates cilia-dependent vertebrate development. Human Molecular Genetics, 2010, 19, 90-98.	2.9	76
116	Combining Cep290 and Mkks ciliopathy alleles in mice rescues sensory defects and restores ciliogenesis. Journal of Clinical Investigation, 2012, 122, 1233-1245.	8.2	75
117	Two Transcription Factors Can Direct Three Photoreceptor Outcomes from Rod Precursor Cells in Mouse Retinal Development. Journal of Neuroscience, 2011, 31, 11118-11125.	3.6	74
118	Rapid, Dynamic Activation of MÃ¼ller Glial Stem Cell Responses in Zebrafish. , 2016, 57, 5148.		74
119	Biochemical Characterization and Subcellular Localization of the Mouse Retinitis Pigmentosa GTPase Regulator (mRpgr). Journal of Biological Chemistry, 1998, 273, 19656-19663.	3.4	73
120	QRX, a novel homeobox gene, modulates photoreceptor gene expression. Human Molecular Genetics, 2004, 13, 1025-1040.	2.9	73
121	Genetic Studies of Age-related Macular Degeneration. Ophthalmology, 2012, 119, 2526-2536.	5.2	73
122	Localization of the Gene for Pigment Epithelium-Derived Factor (PEDF) to Chromosome 17p13.1 and Expression in Cultured Human Retinoblastoma Cells. Genomics, 1994, 19, 266-272.	2.9	70
123	Rd9 Is a Naturally Occurring Mouse Model of a Common Form of Retinitis Pigmentosa Caused by Mutations in RPGR-ORF15. PLoS ONE, 2012, 7, e35865.	2.5	69
124	Activation of Signaling Pathways and Stress-Response Genes in an Experimental Model of Retinal Detachment. , 2006, 47, 1691.		68
125	Deletion of Aryl Hydrocarbon Receptor AHR in Mice Leads to Subretinal Accumulation of Microglia and RPE Atrophy. , 2014, 55, 6031.		67
126	Genome-wide analysis of disease progression in age-related macular degeneration. Human Molecular Genetics, 2018, 27, 929-940.	2.9	67

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127	Expressed sequence tags and chromosomal localization of cDNA clones from a subtracted retinal pigment epithelium library. Genomics, 1992, 13, 873-876.	2.9	66
128	Subunit Dissociation and Diffusion Determine the Subcellular Localization of Rod and Cone Transducins. Journal of Neuroscience, 2007, 27, 5484-5494.	3.6	66
129	Ciliopathy-associated gene Cc2d2a promotes assembly of subdistal appendages on the mother centriole during cilia biogenesis. Nature Communications, 2014, 5, 4207.	12.8	66
130	Whole Exome Sequencing Reveals Mutations in Known Retinal Disease Genes in 33 out of 68 Israeli Families with Inherited Retinopathies. Scientific Reports, 2015, 5, 13187.	3.3	66
131	Pharmacologic fibroblast reprogramming into photoreceptors restores vision. Nature, 2020, 581, 83-88.	27.8	66
132	Dietary Nutrient Intake and Progression to Late Age-Related Macular Degeneration in the Age-Related Eye Disease Studies 1 and 2. Ophthalmology, 2021, 128, 425-442.	5.2	66
133	A Novel Locus (RP24) for X-linked Retinitis Pigmentosa Maps to Xq26-27. American Journal of Human Genetics, 1998, 63, 1439-1447.	6.2	65
134	Increased retinal mtDNA damage in the CFH variant associated with age-related macular degeneration. Experimental Eye Research, 2016, 145, 269-277.	2.6	64
135	The retinitis pigmentosa protein RP2 interacts with polycystin 2 and regulates cilia-mediated vertebrate development. Human Molecular Genetics, 2010, 19, 4330-4344.	2.9	63
136	A long-term efficacy study of gene replacement therapy for RPGR-associated retinal degeneration. Human Molecular Genetics, 2015, 24, 3956-3970.	2.9	63
137	A simple and efficient cDNA library subtraction procedure: isolation of human retina-specific cDNA clones. Nucleic Acids Research, 1991, 19, 1954-1954.	14.5	62
138	RP2 Phenotype and Pathogenetic Correlations in X-Linked Retinitis Pigmentosa. JAMA Ophthalmology, 2010, 128, 915.	2.4	62
139	Differential DNA methylation identified in the blood and retina of AMD patients. Epigenetics, 2015, 10, 698-707.	2.7	62
140	Analysis of the RPGRGene in 11 Pedigrees with the Retinitis Pigmentosa Type 3 Genotype: Paucity of Mutations in the Coding Region but Splice Defects in Two Families. American Journal of Human Genetics, 1997, 61, 571-580.	6.2	61
141	Remapping of the RP15 Locus for X-Linked Cone-Rod Degeneration to Xp11.4-p21.1, and Identification of a De Novo Insertion in the RPGR Exon ORF15. American Journal of Human Genetics, 2000, 67, 1000-1003.	6.2	61
142	Clinical and Genetic Factors Associated with Progression of Geographic Atrophy Lesions in Age-Related Macular Degeneration. PLoS ONE, 2015, 10, e0126636.	2.5	61
143	Retinoic Acid Regulates the Expression of Photoreceptor Transcription Factor NRL. Journal of Biological Chemistry, 2006, 281, 27327-27334.	3.4	60
144	Primary cilia biogenesis and associated retinal ciliopathies. Seminars in Cell and Developmental Biology, 2021, 110, 70-88.	5.0	60

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145	Three-dimensional retinal organoids from mouse pluripotent stem cells mimic development with enhanced stratification and rod photoreceptor differentiation. Molecular Vision, 2016, 22, 1077-1094.	1.1	60
146	Autosomal Recessive Retinitis Pigmentosa with Early Macular Affectation Caused by Premature Truncation inPROM1. , 2010, 51, 2656.		59
147	OTX2 loss causes rod differentiation defect in CRX-associated congenital blindness. Journal of Clinical Investigation, 2014, 124, 631-643.	8.2	59
148	Next generation sequencing technology and genomewide data analysis: Perspectives for retinal research. Progress in Retinal and Eye Research, 2016, 55, 1-31.	15.5	58
149	Retinitis Pigmentosa GTPase Regulator (RPGR) protein isoforms in mammalian retina: Insights into X-linked Retinitis Pigmentosa and associated ciliopathies. Vision Research, 2008, 48, 366-376.	1.4	57
150	RPGR-Associated Retinal Degeneration in Human X-Linked RP and a Murine Model. , 2012, 53, 5594.		56
151	Mechanisms of aging in senescence-accelerated mice. Genome Biology, 2005, 6, R48.	9.6	55
152	Associations of CFHR1â€“CFHR3 deletion and a CFH SNP to age-related macular degeneration are not independent. Nature Genetics, 2010, 42, 553-555.	21.4	55
153	Loss of lysophosphatidylcholine acyltransferase 1 leads to photoreceptor degeneration in rd11 mice. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 15523-15528.	7.1	55
154	Functional Analysis of the Rod Photoreceptor cGMP Phosphodiesterase Î±-Subunit Gene Promoter. Journal of Biological Chemistry, 2004, 279, 19800-19807.	3.4	54
155	Ablation of the X-Linked Retinitis Pigmentosa 2 (Rp2) Gene in Mice Results in Opsin Mislocalization and Photoreceptor Degeneration. , 2013, 54, 4503.		54
156	Evaluation of the ELOVL4 gene in patients with age-related macular degeneration. Ophthalmic Genetics, 2001, 22, 233-239.	1.2	53
157	Network constrained clustering for gene microarray data. Bioinformatics, 2005, 21, 4014-4020.	4.1	53
158	Canine RD3 mutation establishes rod-cone dysplasia type 2 (rcd2) as ortholog of human and murine rd3. Mammalian Genome, 2009, 20, 109-123.	2.2	53
159	Minireview: The Role of Nuclear Receptors in Photoreceptor Differentiation and Disease. Molecular Endocrinology, 2012, 26, 905-915.	3.7	53
160	Gene Therapy of Dominant CRX-Leber Congenital Amaurosis using Patient Stem Cell-Derived Retinal Organoids. Stem Cell Reports, 2021, 16, 252-263.	4.8	53
161	Altered Expression of Genes of the Bmp/Smad and Wnt/Calcium Signaling Pathways in the Cone-only Nrl-/- Mouse Retina, Revealed by Gene Profiling Using Custom cDNA Microarrays. Journal of Biological Chemistry, 2004, 279, 42211-42220.	3.4	52
162	An isoform of retinoid-related orphan receptor Î² directs differentiation of retinal amacrine and horizontal interneurons. Nature Communications, 2013, 4, 1813.	12.8	52

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163	Rare and common variants in extracellular matrix gene Fibrillin 2 (FBN2) are associated with macular degeneration. Human Molecular Genetics, 2014, 23, 5827-5837.	2.9	52
164	Preservation of Cone Photoreceptors after a Rapid yet Transient Degeneration and Remodeling in Cone-OnlyNrl^{â^'/â^'}Mouse Retina. Journal of Neuroscience, 2012, 32, 528-541.	3.6	51
165	The cellular and compartmental profile of mouse retinal glycolysis, tricarboxylic acid cycle, oxidative phosphorylation, and ~P transferring kinases. Molecular Vision, 2016, 22, 847-85.	1.1	51
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