Robert F Mullins

List of Publications by Citations

206 papers	11,787 citations	57 h-index	104 g-index
214 ext. papers	13,630 ext. citations	5.7 avg, IF	6.06 L-index

#	Paper	IF	Citations
206	An integrated hypothesis that considers drusen as biomarkers of immune-mediated processes at the RPE-Bruch's membrane interface in aging and age-related macular degeneration. *Progress in Retinal and Eye Research*, **2001**, 20, 705-32	20.5	1010
205	A role for local inflammation in the formation of drusen in the aging eye. *American Journal of Ophthalmology*, **2002**, 134, 411-31	4.9	872
204	Drusen associated with aging and age-related macular degeneration contain proteins common to extracellular deposits associated with atherosclerosis, elastosis, amyloidosis, and dense deposit disease. *FASEB Journal*, **2000**, 14, 835-846	0.9	709
203	Bbs2-null mice have neurosensory deficits, a defect in social dominance, and retinopathy associated with mislocalization of rhodopsin. *Proceedings of the National Academy of Sciences of the United States of America*, **2004**, 101, 16588-93	11.5	301
202	Retinal neurodegeneration may precede microvascular changes characteristic of diabetic retinopathy in diabetes mellitus. *Proceedings of the National Academy of Sciences of the United States of America*, **2016**, 113, E2655-64	11.5	298
201	Bardet-Biedl syndrome type 4 (BBS4)-null mice implicate Bbs4 in flagella formation but not global cilia assembly. *Proceedings of the National Academy of Sciences of the United States of America*, **2004** , 101, 8664-9	11.5	272
200	T-cell immunoglobulin and mucin domain 1 (TIM-1) is a receptor for Zaire Ebolavirus and Lake Victoria Marburgvirus. *Proceedings of the National Academy of Sciences of the United States of America*, **2011**, 108, 8426-31	11.5	270
199	Choriocapillaris vascular dropout related to density of drusen in human eyes with early age-related macular degeneration **2011**, 52, 1606-12		266
198	Local cellular sources of apolipoprotein E in the human retina and retinal pigmented epithelium: implications for the process of drusen formation. *American Journal of Ophthalmology*, **2001**, 131, 767-81	4.9	197
197	A knockin mouse model of the Bardet-Biedl syndrome 1 M390R mutation has cilia defects, ventriculomegaly, retinopathy, and obesity. *Proceedings of the National Academy of Sciences of the United States of America*, **2007**, 104, 19422-7	11.5	192
196	Clinically Focused Molecular Investigation of 1000 Consecutive Families with Inherited Retinal Disease. *Ophthalmology*, **2017**, 124, 1314-1331	7.3	188
195	Structure and composition of drusen associated with glomerulonephritis: implications for the role of complement activation in drusen biogenesis. *Eye*, **2001**, 15, 390-5	4.4	186
194	Copy number variations on chromosome 12q14 in patients with normal tension glaucoma. *Human Molecular Genetics*, **2011**, 20, 2482-94	5.6	163
193	Exome sequencing and analysis of induced pluripotent stem cells identify the cilia-related gene male germ cell-associated kinase (MAK) as a cause of retinitis pigmentosa. *Proceedings of the National Academy of Sciences of the United States of America*, **2011**, 108, E569-76	11.5	163
192	Decreased thickness and integrity of the macular elastic layer of Bruch's membrane correspond to the distribution of lesions associated with age-related macular degeneration. *American Journal of Pathology*, **2005**, 166, 241-51	5.8	162
191	Vitronectin is a constituent of ocular drusen and the vitronectin gene is expressed in human retinal pigmented epithelial cells. *FASEB Journal*, **1999**, 13, 477-84	0.9	161
190	Mkks-null mice have a phenotype resembling Bardet-Biedl syndrome. *Human Molecular Genetics*, **2005**, 14, 1109-18	5.6	157

189	Bardet-Biedl syndrome genes are important in retrograde intracellular trafficking and Kupffer's vesicle cilia function. *Human Molecular Genetics*, **2006**, 15, 667-77	5.6	154
188	Association between the SERPING1 gene and age-related macular degeneration: a two-stage case-control study. *Lancet, The*, **2008**, 372, 1828-34	40	143
187	Patient-specific iPSC-derived photoreceptor precursor cells as a means to investigate retinitis pigmentosa. *ELife*, **2013**, 2, e00824	8.9	138
186	The membrane attack complex in aging human choriocapillaris: relationship to macular degeneration and choroidal thinning. *American Journal of Pathology*, **2014**, 184, 3142-53	5.8	134
185	Identical mutation in a novel retinal gene causes progressive rod-cone degeneration in dogs and retinitis pigmentosa in humans. *Genomics*, **2006**, 88, 551-63	4.3	133
184	Location, substructure, and composition of basal laminar drusen compared with drusen associated with aging and age-related macular degeneration. *American Journal of Ophthalmology*, **2000**, 129, 205-14	4.9	131
183	Complement activation and choriocapillaris loss in early AMD: implications for pathophysiology and therapy. *Progress in Retinal and Eye Research*, **2015**, 45, 1-29	20.5	128
182	Non-exomic and synonymous variants in ABCA4 are an important cause of Stargardt disease. *Human Molecular Genetics*, **2013**, 22, 5136-45	5.6	125
181	Automated segmentation of the choroid from clinical SD-OCT **2012**, 53, 7510-9		109
180	CEP290 gene transfer rescues Leber congenital amaurosis cellular phenotype. *Gene Therapy*, **2014**, 21, 662-72	4	100
179	Bestrophin gene mutations cause canine multifocal retinopathy: a novel animal model for best disease. *Investigative Ophthalmology and Visual Science*, **2007**, 48, 1959-67		94
178	Differential macular and peripheral expression of bestrophin in human eyes and its implication for best disease. *Investigative Ophthalmology and Visual Science*, **2007**, 48, 3372-80		93
177	Structural and molecular changes in the aging choroid: implications for age-related macular degeneration. *Eye*, **2017**, 31, 10-25	4.4	91
176	Patient-specific induced pluripotent stem cells (iPSCs) for the study and treatment of retinal degenerative diseases. *Progress in Retinal and Eye Research*, **2015**, 44, 15-35	20.5	90
175	Elevated membrane attack complex in human choroid with high risk complement factor H genotypes. *Experimental Eye Research*, **2011**, 93, 565-7	3.7	86
174	Single-cell transcriptomics of the human retinal pigment epithelium and choroid in health and macular degeneration. *Proceedings of the National Academy of Sciences of the United States of America*, **2019**, 116, 24100-24107	11.5	85
173	Using CRISPR-Cas9 to Generate Gene-Corrected Autologous iPSCs for the Treatment of Inherited Retinal Degeneration. *Molecular Therapy*, **2017**, 25, 1999-2013	11.7	84
172	Complement component C5a activates ICAM-1 expression on human choroidal endothelial cells **2010**, 51, 5336-42		84

171	Late development of vitelliform lesions and flecks in a patient with best disease: clinicopathologic correlation. *JAMA Ophthalmology*, **2005**, 123, 1588-94		84
170	Use of a synthetic xeno-free culture substrate for induced pluripotent stem cell induction and retinal differentiation. *Stem Cells Translational Medicine*, **2013**, 2, 16-24	6.9	80
169	Adeno-associated virus type 5: transduction efficiency and cell-type specificity in the primate retina. *Human Gene Therapy*, **2003**, 14, 1663-71	4.8	78
168	cGMP production of patient-specific iPSCs and photoreceptor precursor cells to treat retinal degenerative blindness. *Scientific Reports*, **2016**, 6, 30742	4.9	76
167	Transcriptomic analysis across nasal, temporal, and macular regions of human neural retina and RPE/choroid by RNA-Seq. *Experimental Eye Research*, **2014**, 129, 93-106	3.7	76
166	Exon-level expression profiling of ocular tissues. *Experimental Eye Research*, **2013**, 111, 105-11	3.7	75
165	Enhanced accumulation of A2E in individuals homozygous or heterozygous for mutations in BEST1 (VMD2). *Experimental Eye Research*, **2007**, 85, 34-43	3.7	75
164	North Carolina Macular Dystrophy Is Caused by Dysregulation of the Retinal Transcription Factor PRDM13. *Ophthalmology*, **2016**, 123, 9-18	7.3	73
163	TUDCA slows retinal degeneration in two different mouse models of retinitis pigmentosa and prevents obesity in Bardet-Biedl syndrome type 1 mice **2012**, 53, 100-6		69
162	Duplication of TBK1 Stimulates Autophagy in iPSC-derived Retinal Cells from a Patient with Normal Tension Glaucoma. *Journal of Stem Cell Research & Therapy*, **2014**, 3, 161	1	68
161	Comparison of the femtosecond laser (IntraLase) versus manual microkeratome (Moria ALTK) in dissection of the donor in endothelial keratoplasty: initial study in eye bank eyes. *Cornea*, **2008**, 27, 88-93	3.1	67
160	Development and characterization of photopolymerizable biodegradable materials from PEGPLAPEG block macromonomers. *Polymer*, **2007**, 48, 6554-6564	3.9	65
159	Structural and biochemical analyses of choroidal thickness in human donor eyes **2014**, 55, 1352-60		64
158	Ethnic variation in AMD-associated complement factor H polymorphism p.Tyr402His. *Human Mutation*, **2006**, 27, 921-5	4.7	63
157	Identification and functional analysis of the vision-specific BBS3 (ARL6) long isoform. *PLoS Genetics*, **2010**, 6, e1000884	6	61
156	Validity of Automated Choroidal Segmentation in SS-OCT and SD-OCT **2015**, 56, 3202-11		60
155	Subretinal gene therapy of mice with Bardet-Biedl syndrome type 1 **2013**, 54, 6118-32		60
154	Autosomal recessive vitelliform macular dystrophy in a large cohort of vitelliform macular dystrophy patients. *Retina*, **2011**, 31, 581-95	3.6	60

153	Two-photon polymerization for production of human iPSC-derived retinal cell grafts. *Acta Biomaterialia*, **2017**, 55, 385-395	10.8	58
152	Molecular characterization of foveal versus peripheral human retina by single-cell RNA sequencing. *Experimental Eye Research*, **2019**, 184, 234-242	3.7	58
151	Cadherin 5 is regulated by corticosteroids and associated with central serous chorioretinopathy. *Human Mutation*, **2014**, 35, 859-67	4.7	58
150	Association of HLA class I and class II polymorphisms with age-related macular degeneration. *Investigative Ophthalmology and Visual Science*, **2005**, 46, 1726-34		58
149	Bestrophinopathy: An RPE-photoreceptor interface disease. *Progress in Retinal and Eye Research*, **2017**, 58, 70-88	20.5	57
148	Macrophages in neovascular age-related macular degeneration: friends or foes?. *Eye*, **2009**, 23, 747-55	4.4	55
147	Stem cells for investigation and treatment of inherited retinal disease. *Human Molecular Genetics*, **2014**, 23, R9-R16	5.6	54
146	Variations in NPHP5 in patients with nonsyndromic leber congenital amaurosis and Senior-Loken syndrome. *JAMA Ophthalmology*, **2011**, 129, 81-7		54
145	Characterization of drusen-associated glycoconjugates. *Ophthalmology*, **1997**, 104, 288-94	7.3	54
144	Generation, identification and functional characterization of the nob4 mutation of Grm6 in the mouse. *Visual Neuroscience*, **2007**, 24, 111-23	1.7	53
143	Hypomorphic mutations in TRNT1 cause retinitis pigmentosa with erythrocytic microcytosis. *Human Molecular Genetics*, **2016**, 25, 44-56	5.6	51
142	Human photoreceptor outer segments shorten during light adaptation **2013**, 54, 3721-8		51
141	Time-resolved autofluorescence imaging of human donor retina tissue from donors with significant extramacular drusen **2012**, 53, 3376-86		50
140	Human ocular drusen possess novel core domains with a distinct carbohydrate composition. *Journal of Histochemistry and Cytochemistry*, **1999**, 47, 1533-40	3.4	50
139	Macular and peripheral distribution of ICAM-1 in the human choriocapillaris and retina. *Molecular Vision*, **2006**, 12, 224-35	2.3	48
138	Visual impairment in the absence of dystroglycan. *Journal of Neuroscience*, **2009**, 29, 13136-46	6.6	45
137	Gene transfer to the nonhuman primate retina with recombinant feline immunodeficiency virus vectors. *Human Gene Therapy*, **2002**, 13, 689-96	4.8	45
136	Three-dimensional distribution of the vitelliform lesion, photoreceptors, and retinal pigment epithelium in the macula of patients with best vitelliform macular dystrophy. *JAMA Ophthalmology*, **2012**, 130, 357-64		44

135	Gene expression analysis of photoreceptor cell loss in bbs4-knockout mice reveals an early stress gene response and photoreceptor cell damage. *Investigative Ophthalmology and Visual Science*, **2007**, 48, 3329-40		44
134	Expression of the glaucoma gene myocilin (MYOC) in the human optic nerve head. *FASEB Journal*, **2001**, 15, 1251-3	0.9	44
133	CRISPR-Cas9 genome engineering: Treating inherited retinal degeneration. *Progress in Retinal and Eye Research*, **2018**, 65, 28-49	20.5	43
132	Autosomal recessive retinitis pigmentosa due to ABCA4 mutations: clinical, pathologic, and molecular characterization **2012**, 53, 1883-94		42
131	Altered gene expression in dry age-related macular degeneration suggests early loss of choroidal endothelial cells. *Molecular Vision*, **2013**, 19, 2274-97	2.3	41
130	Molecular response of chorioretinal endothelial cells to complement injury: implications for macular degeneration. *Journal of Pathology*, **2016**, 238, 446-56	9.4	40
129	Allogenic iPSC-derived RPE cell transplants induce immune response in pigs: a pilot study. *Scientific Reports*, **2015**, 5, 11791	4.9	40
128	Characterization of Choroidal Layers in Normal Aging Eyes Using Enface Swept-Source Optical Coherence Tomography. *PLoS ONE*, **2015**, 10, e0133080	3.7	39
127	Patient-specific induced pluripotent stem cells to evaluate the pathophysiology of TRNT1-associated Retinitis pigmentosa. *Stem Cell Research*, **2017**, 21, 58-70	1.6	38
126	Selective accumulation of the complement membrane attack complex in aging choriocapillaris. *Experimental Eye Research*, **2016**, 146, 393-397	3.7	38
125	Mechanical properties of murine and porcine ocular tissues in compression. *Experimental Eye Research*, **2014**, 121, 194-9	3.7	38
124	REFRACTILE DRUSEN: Clinical Imaging and Candidate Histology. *Retina*, **2015**, 35, 859-65	3.6	38
123	Chromosome 7q31 POAG locus: ocular expression of caveolins and lack of association with POAG in a US cohort. *Molecular Vision*, **2011**, 17, 430-5	2.3	38
122	Predicting the pathogenicity of RPE65 mutations. *Human Mutation*, **2009**, 30, 1183-8	4.7	37
121	Monomeric C-reactive protein and inflammation in age-related macular degeneration. *Journal of Pathology*, **2016**, 240, 173-83	9.4	34
120	Fibulin-5 distribution in human eyes: relevance to age-related macular degeneration. *Experimental Eye Research*, **2007**, 84, 378-80	3.7	33
119	Two-photon polymerized poly(caprolactone) retinal cell delivery scaffolds and their systemic and retinal biocompatibility. *Acta Biomaterialia*, **2019**, 94, 204-218	10.8	32
118	Effect of Molecular Weight and Functionality on Acrylated Poly(caprolactone) for Stereolithography and Biomedical Applications. *Biomacromolecules*, **2018**, 19, 3682-3692	6.9	32

117	Generating iPSC-Derived Choroidal Endothelial Cells to Study Age-Related Macular Degeneration **2015**, 56, 8258-67		32
116	Mouse mutation reveals a mechanism involving mitochondrial dynamics that leads to age-dependent retinal pathologies. *ELife*, **2016**, 5,	8.9	32
115	Choriocapillaris Degeneration in Geographic Atrophy. *American Journal of Pathology*, **2019**, 189, 1473-1480	3.8	31
114	Feeder-free differentiation of cells exhibiting characteristics of corneal endothelium from human induced pluripotent stem cells. *Biology Open*, **2018**, 7,	2.2	31
113	Association of Genetic Variants With Primary Open-Angle Glaucoma Among Individuals With African Ancestry. *JAMA - Journal of the American Medical Association*, **2019**, 322, 1682-1691	27.4	31
112	Interleukin-17 retinotoxicity is prevented by gene transfer of a soluble interleukin-17 receptor acting as a cytokine blocker: implications for age-related macular degeneration. *PLoS ONE*, **2014**, 9, e95900	3.7	30
111	Effects of antioxidant components of AREDS vitamins and zinc ions on endothelial cell activation: implications for macular degeneration **2012**, 53, 1041-7		29
110	Fc receptor upregulation is associated with immune complex inflammation in the mouse retina and early age-related macular degeneration **2014**, 55, 247-58		28
109	Comparison of drusen and modifying genes in autosomal dominant radial drusen and age-related macular degeneration. *Retina*, **2015**, 35, 48-57	3.6	27
108	Comparison of retinal and choriocapillaris thicknesses following sitting to supine transition in healthy individuals and patients with age-related macular degeneration. *JAMA Ophthalmology*, **2015**, 133, 297-303	3.9	27
107	Elastin-mediated choroidal endothelial cell migration: possible role in age-related macular degeneration **2008**, 49, 5574-80		26
106	Assessment of Adeno-Associated Virus Serotype Tropism in Human Retinal Explants. *Human Gene Therapy*, **2018**, 29, 424-436	4.8	26
105	Connective Tissue Growth Factor Promotes Efficient Generation of Human Induced Pluripotent Stem Cell-Derived Choroidal Endothelium. *Stem Cells Translational Medicine*, **2017**, 6, 1533-1546	6.9	25
104	The human retina and retinal pigment epithelium are abundant sources of vitronectin mRNA. *Biochemical and Biophysical Research Communications*, **1999**, 258, 524-9	3.4	24
103	Using Patient-Specific Induced Pluripotent Stem Cells and Wild-Type Mice to Develop a Gene Augmentation-Based Strategy to Treat CLN3-Associated Retinal Degeneration. *Human Gene Therapy*, **2016**, 27, 835-846	4.8	24
102	PyMINEr Finds Gene and Autocrine-Paracrine Networks from Human Islet scRNA-Seq. *Cell Reports*, **2019**, 26, 1951-1964.e8	10.6	23
101	Using patient-specific induced pluripotent stem cells to interrogate the pathogenicity of a novel retinal pigment epithelium-specific 65 kDa cryptic splice site mutation and confirm eligibility for enrollment into a clinical gene augmentation trial. *Translational Research*, **2015**, 166, 740-749.e1	11	22
100	Molecular responses of choroidal endothelial cells to elastin derived peptides through the elastin-binding protein (GLB1). *Matrix Biology*, **2012**, 31, 113-9	11.4	21

99	Localization of complement 1 inhibitor (C1INH/SERPING1) in human eyes with age-related macular degeneration. *Experimental Eye Research*, **2009**, 89, 767-73	3.7	21
98	Results from screening over 9000 mutation-bearing mice for defects in the electroretinogram and appearance of the fundus. *Vision Research*, **2004**, 44, 3335-45	2.1	21
97	CRISPR-Cas9-Based Genome Editing of Human Induced Pluripotent Stem Cells. *Current Protocols in Stem Cell Biology*, **2018**, 44, 5B.7.1-5B.7.22	2.8	20
96	The ARMS2 A69S Polymorphism Is Associated with Delayed Rod-Mediated Dark Adaptation in Eyes at Risk for Incident Age-Related Macular Degeneration. *Ophthalmology*, **2019**, 126, 591-600	7.3	20
95	A mutation in the mouse ttc26 gene leads to impaired hedgehog signaling. *PLoS Genetics*, **2014**, 10, e1004689		19
94	Generation, characterization, and molecular cloning of the Noerg-1 mutation of rhodopsin in the mouse. *Visual Neuroscience*, **2005**, 22, 619-29	1.7	19
93	Single-cell profiling reveals an endothelium-mediated immunomodulatory pathway in the eye choroid. *Journal of Experimental Medicine*, **2020**, 217,	16.6	19
92	Single-Cell RNA Sequencing in Human Retinal Degeneration Reveals Distinct Glial Cell Populations. *Cells*, **2020**, 9,	7.9	18
91	Toll-like Receptor 2 Facilitates Oxidative Damage-Induced Retinal Degeneration. *Cell Reports*, **2020**, 30, 2209-2224.e5	10.6	17
90	Regional assessment of energy-producing metabolic activity in the endothelium of donor corneas **2015**, 56, 2803-10		17
89	Loss of CD34 expression in aging human choriocapillaris endothelial cells. *PLoS ONE*, **2014**, 9, e86538	3.7	17
88	Association of reduced Connexin 43 expression with retinal vascular lesions in human diabetic retinopathy. *Experimental Eye Research*, **2016**, 146, 103-106	3.7	17
87	Is age-related macular degeneration a microvascular disease?. *Advances in Experimental Medicine and Biology*, **2014**, 801, 283-9	3.6	16
86	Genetic insights into the pathobiology of age-related macular degeneration. *International Ophthalmology Clinics*, **2007**, 47, 1-14	1.7	16
85	EYES WITH SUBRETINAL DRUSENOID DEPOSITS AND NO DRUSEN: Progression of Macular Findings. *Retina*, **2019**, 39, 12-26	3.6	16
84	Seroreactivity against aqueous-soluble and detergent-soluble retinal proteins in posterior uveitis. *JAMA Ophthalmology*, **2011**, 129, 415-20		15
83	Comparison of color to fluorescein angiographic images from patients with early-adult onset grouped drusen suggests drusen substructure. *American Journal of Ophthalmology*, **2004**, 137, 924-30	4.9	15
82	Angiogenin in age-related macular degeneration. *Molecular Vision*, **2011**, 17, 576-82	2.3	15

81	Transgenic TBK1 mice have features of normal tension glaucoma. *Human Molecular Genetics*, **2017**, 26, 124-132	5.6	15
80	Glycoconjugates of choroidal neovascular membranes in age-related macular degeneration. *Molecular Vision*, **2005**, 11, 509-17	2.3	15
79	Preparation and evaluation of human choroid extracellular matrix scaffolds for the study of cell replacement strategies. *Acta Biomaterialia*, **2017**, 57, 293-303	10.8	14
78	Correction of NR2E3 Associated Enhanced S-cone Syndrome Patient-specific iPSCs using CRISPR-Cas9. *Genes*, **2019**, 10,	4.2	14
77	Immunosuppressive Treatment for Retinal Degeneration in Juvenile Neuronal Ceroid Lipofuscinosis (Juvenile Batten Disease). *Ophthalmic Genetics*, **2015**, 36, 359-64	1.2	14
76	Effect of internal limiting membrane abrasion on retinal tissues in macular holes **2015**, 56, 2783-9		14
75	TBK1 and flanking genes in human retina. *Ophthalmic Genetics*, **2014**, 35, 35-40	1.2	14
74	Photoreceptor cells with profound structural deficits can support useful vision in mice **2014**, 55, 1859-66		14
73	Different inner retinal pathways mediate rod-cone input in irradiance detection for the pupillary light reflex and regulation of behavioral state in mice **2011**, 52, 618-23		14
72	The SWELL1-LRRC8 complex regulates endothelial AKT-eNOS signaling and vascular function. *ELife*, **2021**, 10,	8.9	14
71	Gene therapy using stem cells. *Cold Spring Harbor Perspectives in Medicine*, **2014**, 5,	5.4	13
70	Concise Review: Patient-Specific Stem Cells to Interrogate Inherited Eye Disease. *Stem Cells Translational Medicine*, **2016**, 5, 132-40	6.9	13
69	APOPTOSIS AND ANGIOFIBROSIS IN DIABETIC TRACTIONAL MEMBRANES AFTER VASCULAR ENDOTHELIAL GROWTH FACTOR INHIBITION: Results of a Prospective Trial. Report No. 2. *Retina*, **2019**, 39, 265-273	3.6	13
68	CRISPR-Cas9-Mediated Correction of the 1.02 kb Common Deletion in in Induced Pluripotent Stem Cells from Patients with Batten Disease. *CRISPR Journal*, **2018**, 1, 75-87	2.5	12
67	Divergent phenotypes of vision and accessory visual function in mice with visual cycle dysfunction (Rpe65 rd12) or retinal degeneration (rd/rd). *Investigative Ophthalmology and Visual Science*, **2008**, 49, 2737-42		12
66	Wide-Field Swept-Source OCT and Angiography in X-Linked Retinoschisis. *Ophthalmology Retina*, **2019**, 3, 178-185	3.8	11
65	Evaluation of serum and ocular levels of membrane attack complex and C-reactive protein in CFH-genotyped human donors. *Eye*, **2018**, 32, 1740-1742	4.4	11
64	Choroidal □T cells in protection against retinal pigment epithelium and retinal injury. *FASEB Journal*, **2017**, 31, 4903-4916	0.9	11

63	Generation of Xeno-Free, cGMP-Compliant Patient-Specific iPSCs from Skin Biopsy. *Current Protocols in Stem Cell Biology*, **2017**, 42, 4A.12.1-4A.12.14	2.8	11
62	T-cell infiltration in autosomal dominant neovascular inflammatory vitreoretinopathy. *Molecular Vision*, **2010**, 16, 1034-40	2.3	11
61	Generation of an immortalized human choroid endothelial cell line (iChEC-1) using an endothelial cell specific promoter. *Microvascular Research*, **2019**, 123, 50-57	3.7	11
60	From compliment to insult: genetics of the complement system in physiology and disease in the human retina. *Human Molecular Genetics*, **2017**, 26, R51-R57	5.6	10
59	Stem cells as tools for studying the genetics of inherited retinal degenerations. *Cold Spring Harbor Perspectives in Medicine*, **2014**, 5, a017160	5.4	10
58	Bulk and single-cell gene expression analyses reveal aging human choriocapillaris has pro-inflammatory phenotype. *Microvascular Research*, **2020**, 131, 104031	3.7	10
57	Lipofuscin in human glaucomatous optic nerves. *Experimental Eye Research*, **2013**, 111, 61-6	3.7	9
56	Evaluation of variants in the selectin genes in age-related macular degeneration. *BMC Medical Genetics*, **2011**, 12, 58	2.1	9
55	Stepwise differentiation and functional characterization of human induced pluripotent stem cell-derived choroidal endothelial cells. *Stem Cell Research and Therapy*, **2020**, 11, 409	8.3	9
54	A Method for Sectioning and Immunohistochemical Analysis of Stem Cell-Derived 3-D Organoids. *Current Protocols in Stem Cell Biology*, **2016**, 37, 1C.19.1-1C.19.11	2.8	9
53	Correlation of Optical Coherence Tomography and Retinal Histology in Normal and Pro23His Retinal Degeneration Pig. *Translational Vision Science and Technology*, **2018**, 7, 18	3.3	9
52	Helper-Dependent Adenovirus Transduces the Human and Rat Retina but Elicits an Inflammatory Reaction When Delivered Subretinally in Rats. *Human Gene Therapy*, **2019**, 30, 1371-1384	4.8	8
51	Optimizing Donor Cellular Dissociation and Subretinal Injection Parameters for Stem Cell-Based Treatments. *Stem Cells Translational Medicine*, **2019**, 8, 797-809	6.9	8
50	Vitritis in pediatric genetic retinal disorders. *Ophthalmology*, **2015**, 122, 192-9	7.3	8
49	Heterozygous triplication of upstream regulatory sequences leads to dysregulation of matrix metalloproteinase 19 in patients with cavitary optic disc anomaly. *Human Mutation*, **2015**, 36, 369-78	4.7	8
48	POSTERIORLY INSERTED VITREOUS BASE: Preoperative Characteristics, Intraoperative Findings, and Outcomes After Vitrectomy. *Retina*, **2020**, 40, 943-950	3.6	8
47	Spectacle: An interactive resource for ocular single-cell RNA sequencing data analysis. *Experimental Eye Research*, **2020**, 200, 108204	3.7	8
46	Single-cell RNA sequencing in vision research: Insights into human retinal health and disease. *Progress in Retinal and Eye Research*, **2021**, 83, 100934	20.5	8

45	Development of a Molecularly Stable Gene Therapy Vector for the Treatment of -Associated X-Linked Retinitis Pigmentosa. *Human Gene Therapy*, **2019**, 30, 967-974	4.8	7
44	CLINICOPATHOLOGICAL CORRELATION IN A PATIENT WITH PREVIOUSLY TREATED BIRDSHOT CHORIORETINOPATHY. *Retinal Cases and Brief Reports*, **2017**, 11, 344-347	1.1	7
43	Anti-Ēnolase autoimmune retinopathy manifesting in early childhood. *JAMA Ophthalmology*, **2010**, 128, 1590-5		7
42	Localization of SH3PXD2B in human eyes and detection of rare variants in patients with anterior segment diseases and glaucoma. *Molecular Vision*, **2012**, 18, 705-13	2.3	7
41	Prioritization of retinal disease genes: an integrative approach. *Human Mutation*, **2013**, 34, 853-9	4.7	6
40	Histochemical Analysis of Glaucoma Caused by a Myocilin Mutation in a Human Donor Eye. *Ophthalmology Glaucoma*, **2018**, 1, 132-138	2.2	6
39	Macular Dystrophies **2013**, 852-890		5
38	Label-free microfluidic enrichment of photoreceptor cells. *Experimental Eye Research*, **2020**, 199, 108166	3.7	5
37	Retinal Tropism and Transduction of Adeno-Associated Virus Varies by Serotype and Route of Delivery (Intravitreal, Subretinal, or Suprachoroidal) in Rats. *Human Gene Therapy*, **2020**, 31, 1288-1299	4.8	5
36	Transcriptome changes in age-related macular degeneration. *BMC Medicine*, **2012**, 10, 21	11.4	4
35	Cell-Matrix Interactions in the Eye: From Cornea to Choroid. *Cells*, **2021**, 10,	7.9	4
34	Imidazole Compounds for Protecting Choroidal Endothelial Cells from Complement Injury. *Scientific Reports*, **2018**, 8, 13387	4.9	4
33	Prevascularized silicon membranes for the enhancement of transport to implanted medical devices. *Journal of Biomedical Materials Research - Part B Applied Biomaterials*, **2016**, 104, 1602-1609	3.5	3
32	Outer segment length in different best disease genotypes. *JAMA Ophthalmology*, **2014**, 132, 1152-3	3.9	3
31	Local Factor H production by human choroidal endothelial cells mitigates complement deposition: implications for macular degeneration.. *Journal of Pathology*, **2022**,	9.4	3
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