

David G Birch

List of Publications by Citations

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209
papers

14,130
citations

69
h-index

113
g-index

215
ext. papers

15,498
ext. citations

5.1
avg. IF

5.96
L-index

#	Paper	IF	Citations
209	Insights into the function of Rim protein in photoreceptors and etiology of StargardtB disease from the phenotype in abcr knockout mice. <i>Cell</i> , 1999 , 98, 13-23	56.2	769
208	Effect of dietary omega-3 fatty acids on retinal function of very-low-birth-weight neonates. <i>Pediatric Research</i> , 1990 , 28, 485-92	3.2	509
207	A randomized controlled trial of early dietary supply of long-chain polyunsaturated fatty acids and mental development in term infants. <i>Developmental Medicine and Child Neurology</i> , 2000 , 42, 174-81	3.3	458
206	Visual acuity and the essentiality of docosahexaenoic acid and arachidonic acid in the diet of term infants. <i>Pediatric Research</i> , 1998 , 44, 201-9	3.2	373
205	Essential fatty acids in visual and brain development. <i>Lipids</i> , 2001 , 36, 885-95	1.6	349
204	Mutations in NYX, encoding the leucine-rich proteoglycan nyctalopin, cause X-linked complete congenital stationary night blindness. <i>Nature Genetics</i> , 2000 , 26, 319-23	36.3	265
203	Natural course of retinitis pigmentosa over a three-year interval. <i>American Journal of Ophthalmology</i> , 1985 , 99, 240-51	4.9	255
202	Prevalence of mutations causing retinitis pigmentosa and other inherited retinopathies. <i>Human Mutation</i> , 2001 , 17, 42-51	4.7	234
201	A range of clinical phenotypes associated with mutations in CRX, a photoreceptor transcription-factor gene. <i>American Journal of Human Genetics</i> , 1998 , 63, 1307-15	11	233
200	Mutations in a new photoreceptor-pineal gene on 17p cause Leber congenital amaurosis. <i>Nature Genetics</i> , 2000 , 24, 79-83	36.3	231
199	Ciliary neurotrophic factor delivered by encapsulated cell intraocular implants for treatment of geographic atrophy in age-related macular degeneration. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011 , 108, 6241-5	11.5	218
198	Prevalence of disease-causing mutations in families with autosomal dominant retinitis pigmentosa: a screen of known genes in 200 families. <i>Investigative Ophthalmology and Visual Science</i> , 2006 , 47, 3052-64		214
197	Five-Year Safety and Performance Results from the Argus II Retinal Prosthesis System Clinical Trial. <i>Ophthalmology</i> , 2016 , 123, 2248-54	7.3	209
196	Standardized full-field electroretinography. Normal values and their variation with age. <i>JAMA Ophthalmology</i> , 1992 , 110, 1571-6		200
195	A comprehensive mutation analysis of RP2 and RPGR in a North American cohort of families with X-linked retinitis pigmentosa. <i>American Journal of Human Genetics</i> , 2002 , 70, 1545-54	11	194
194	Long-Term Results from an Epiretinal Prosthesis to Restore Sight to the Blind. <i>Ophthalmology</i> , 2015 , 122, 1547-54	7.3	183
193	Next generation sequencing-based molecular diagnosis of retinitis pigmentosa: identification of a novel genotype-phenotype correlation and clinical refinements. <i>Human Genetics</i> , 2014 , 133, 331-45	6.3	172

192	Thickness of receptor and post-receptor retinal layers in patients with retinitis pigmentosa measured with frequency-domain optical coherence tomography 2009 , 50, 2328-36		170
191	A quantitative measure of the electrical activity of human rod photoreceptors using electroretinography. <i>Visual Neuroscience</i> , 1990 , 5, 379-87	1.7	164
190	Safety and efficacy of omega-3 fatty acids in the nutrition of very low birth weight infants: soy oil and marine oil supplementation of formula. <i>Journal of Pediatrics</i> , 1994 , 124, 612-20	3.6	159
189	Lipofuscin accumulation, abnormal electrophysiology, and photoreceptor degeneration in mutant ELOVL4 transgenic mice: a model for macular degeneration. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005 , 102, 4164-9	11.5	158
188	Treatment of retinitis pigmentosa due to MERTK mutations by ocular subretinal injection of adeno-associated virus gene vector: results of a phase I trial. <i>Human Genetics</i> , 2016 , 135, 327-43	6.3	156
187	The very large G-protein-coupled receptor VLGR1: a component of the ankle link complex required for the normal development of auditory hair bundles. <i>Journal of Neuroscience</i> , 2006 , 26, 6543-53	6.6	154
186	Mutant prominin 1 found in patients with macular degeneration disrupts photoreceptor disk morphogenesis in mice. <i>Journal of Clinical Investigation</i> , 2008 , 118, 2908-16	15.9	154
185	Mutations in the inosine monophosphate dehydrogenase 1 gene (IMPDH1) cause the RP10 form of autosomal dominant retinitis pigmentosa. <i>Human Molecular Genetics</i> , 2002 , 11, 559-68	5.6	151
184	A computational model of the amplitude and implicit time of the b-wave of the human ERG. <i>Visual Neuroscience</i> , 1992 , 8, 107-26	1.7	148
183	A randomized controlled trial of long-chain polyunsaturated fatty acid supplementation of formula in term infants after weaning at 6 wk of age. <i>American Journal of Clinical Nutrition</i> , 2002 , 75, 570-80	7	136
182	Spatial contrast sensitivity in albino and pigmented rats. <i>Vision Research</i> , 1979 , 19, 933-7	2.1	134
181	Randomized trial of ciliary neurotrophic factor delivered by encapsulated cell intraocular implants for retinitis pigmentosa. <i>American Journal of Ophthalmology</i> , 2013 , 156, 283-292.e1	4.9	133
180	Rom-1 is required for rod photoreceptor viability and the regulation of disk morphogenesis. <i>Nature Genetics</i> , 2000 , 25, 67-73	36.3	133
179	Prevalence of AIPL1 mutations in inherited retinal degenerative disease. <i>Molecular Genetics and Metabolism</i> , 2000 , 70, 142-50	3.7	133
178	Yearly rates of rod and cone functional loss in retinitis pigmentosa and cone-rod dystrophy. <i>Ophthalmology</i> , 1999 , 106, 258-68	7.3	132
177	Visual maturation of term infants fed long-chain polyunsaturated fatty acid-supplemented or control formula for 12 mo. <i>American Journal of Clinical Nutrition</i> , 2005 , 81, 871-9	7	130
176	Role of essential fatty acids in the function of the developing nervous system. <i>Lipids</i> , 1996 , 31 Suppl, S167-76	1.6	130
175	Visual function in breast-fed term infants weaned to formula with or without long-chain polyunsaturates at 4 to 6 months: a randomized clinical trial. <i>Journal of Pediatrics</i> , 2003 , 142, 669-77	3.6	127

174	Comprehensive molecular diagnosis of 179 Leber congenital amaurosis and juvenile retinitis pigmentosa patients by targeted next generation sequencing. <i>Journal of Medical Genetics</i> , 2013 , 50, 674-88	5.8	125
173	Spectral-domain optical coherence tomography measures of outer segment layer progression in patients with X-linked retinitis pigmentosa. <i>JAMA Ophthalmology</i> , 2013 , 131, 1143-50	3.9	125
172	Normative reference ranges for the retinal nerve fiber layer, macula, and retinal layer thicknesses in children. <i>American Journal of Ophthalmology</i> , 2013 , 155, 354-360.e1	4.9	123
171	Control of late off-center cone bipolar cell differentiation and visual signaling by the homeobox gene <i>Vsx1</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004 , 101, 1754-9	11.5	123
170	Human cone receptor activity: the leading edge of the a-wave and models of receptor activity. <i>Visual Neuroscience</i> , 1993 , 10, 857-71	1.7	116
169	Spectrum and frequency of mutations in <i>IMPDH1</i> associated with autosomal dominant retinitis pigmentosa and leber congenital amaurosis. <i>Investigative Ophthalmology and Visual Science</i> , 2006 , 47, 34-42		115
168	A leucine to arginine amino acid substitution at codon 46 of rhodopsin is responsible for a severe form of autosomal dominant retinitis pigmentosa. <i>Human Mutation</i> , 1993 , 2, 205-13	4.7	113
167	Light adaptation of human rod receptors: the leading edge of the human a-wave and models of rod receptor activity. <i>Vision Research</i> , 1993 , 33, 1605-18	2.1	112
166	GPR179 is required for depolarizing bipolar cell function and is mutated in autosomal-recessive complete congenital stationary night blindness. <i>American Journal of Human Genetics</i> , 2012 , 90, 331-9	11	108
165	A comparison of visual field sensitivity to photoreceptor thickness in retinitis pigmentosa 2010 , 51, 4213-9		107
164	The transition zone between healthy and diseased retina in patients with retinitis pigmentosa 2011 , 52, 101-8		107
163	Beta wave of the scotopic (rod) electroretinogram as a measure of the activity of human on-bipolar cells. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 1996 , 13, 623-33	1.8	105
162	Impact of early dietary intake and blood lipid composition of long-chain polyunsaturated fatty acids on later visual development. <i>Journal of Pediatric Gastroenterology and Nutrition</i> , 2000 , 31, 540-53	2.8	102
161	Mutations in the X-linked retinitis pigmentosa genes <i>RPGR</i> and <i>RP2</i> found in 8.5% of families with a provisional diagnosis of autosomal dominant retinitis pigmentosa 2013 , 54, 1411-6		101
160	The Natural History of the Progression of Atrophy Secondary to Stargardt Disease (ProgStar) Studies: Design and Baseline Characteristics: ProgStar Report No. 1. <i>Ophthalmology</i> , 2016 , 123, 817-28	7.3	94
159	The phenotype of Leber congenital amaurosis in patients with <i>AiPL1</i> mutations. <i>JAMA Ophthalmology</i> , 2004 , 122, 1029-37		94
158	Mutations in <i>RPGR</i> and <i>RP2</i> account for 15% of males with simplex retinal degenerative disease 2012 , 53, 8232-7		91
157	The inner segment/outer segment border seen on optical coherence tomography is less intense in patients with diminished cone function 2011 , 52, 9703-9		89

156	Photoresponses of human rods in vivo derived from paired-flash electroretinograms. <i>Visual Neuroscience</i> , 1997 , 14, 73-82	1.7	87
155	Inherited Retinal Degenerations: Current Landscape and Knowledge Gaps. <i>Translational Vision Science and Technology</i> , 2018 , 7, 6	3.3	87
154	Spectrum of mutations in the RPGR gene that are identified in 20% of families with X-linked retinitis pigmentosa. <i>American Journal of Human Genetics</i> , 1997 , 61, 1287-92	11	86
153	Assessing abnormal rod photoreceptor activity with the a-wave of the electroretinogram: applications and methods. <i>Documenta Ophthalmologica</i> , 1996 , 92, 253-67	2.2	86
152	Mutations in a BTB-Kelch protein, KLHL7, cause autosomal-dominant retinitis pigmentosa. <i>American Journal of Human Genetics</i> , 2009 , 84, 792-800	11	84
151	Phototransduction in human cones measured using the alpha-wave of the ERG. <i>Vision Research</i> , 1995 , 35, 2801-10	2.1	84
150	Safety and effect on rod function of ACU-4429, a novel small-molecule visual cycle modulator. <i>Retina</i> , 2012 , 32, 183-8	3.6	81
149	Identification of disease-causing mutations in autosomal dominant retinitis pigmentosa (adRP) using next-generation DNA sequencing 2011 , 52, 494-503		77
148	The Iroquois homeobox gene, <i>Irx5</i> , is required for retinal cone bipolar cell development. <i>Developmental Biology</i> , 2005 , 287, 48-60	3.1	77
147	Retinal pathology and skin barrier defect in mice carrying a Stargardt disease-3 mutation in elongase of very long chain fatty acids-4. <i>Molecular Vision</i> , 2007 , 13, 258-72	2.3	76
146	Mutation Detection in Patients with Retinal Dystrophies Using Targeted Next Generation Sequencing. <i>PLoS ONE</i> , 2016 , 11, e0145951	3.7	76
145	A comparison of progressive loss of the ellipsoid zone (EZ) band in autosomal dominant and x-linked retinitis pigmentosa 2014 , 55, 7417-22		72
144	Rod sensitivity, cone sensitivity, and photoreceptor layer thickness in retinal degenerative diseases 2011 , 52, 7141-7		71
143	Allelic heterogeneity and genetic modifier loci contribute to clinical variation in males with X-linked retinitis pigmentosa due to RPGR mutations. <i>PLoS ONE</i> , 2011 , 6, e23021	3.7	71
142	Method for deriving visual field boundaries from OCT scans of patients with retinitis pigmentosa. <i>Biomedical Optics Express</i> , 2011 , 2, 1106-14	3.5	70
141	Quantitative electroretinogram measures of phototransduction in cone and rod photoreceptors: normal aging, progression with disease, and test-retest variability. <i>JAMA Ophthalmology</i> , 2002 , 120, 1045-51		70
140	Long-term Follow-up of Patients With Retinitis Pigmentosa Receiving Intraocular Ciliary Neurotrophic Factor Implants. <i>American Journal of Ophthalmology</i> , 2016 , 170, 10-14	4.9	67
139	Genomic rearrangements of the PRPF31 gene account for 2.5% of autosomal dominant retinitis pigmentosa. <i>Investigative Ophthalmology and Visual Science</i> , 2006 , 47, 4579-88		65

138	A novel locus (RP24) for X-linked retinitis pigmentosa maps to Xq26-27. <i>American Journal of Human Genetics</i> , 1998 , 63, 1439-47	11	63
137	Deficiency of rds/peripherin causes photoreceptor death in mouse models of digenic and dominant retinitis pigmentosa. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2001 , 98, 7718-23	11.5	62
136	Transition zones between healthy and diseased retina in choroideremia (CHM) and Stargardt disease (STGD) as compared to retinitis pigmentosa (RP) 2011 , 52, 9581-90		59
135	Mutations in the RP1 gene causing autosomal dominant retinitis pigmentosa. <i>Human Molecular Genetics</i> , 1999 , 8, 2121-8	5.6	56
134	Visual function in patients with cone-rod dystrophy (CRD) associated with mutations in the ABCA4(ABCR) gene. <i>Experimental Eye Research</i> , 2001 , 73, 877-86	3.7	55
133	Mutation analysis identifies GUCY2D as the major gene responsible for autosomal dominant progressive cone degeneration 2008 , 49, 5015-23		54
132	Progression of Stargardt Disease as Determined by Fundus Autofluorescence in the Retrospective Progression of Stargardt Disease Study (ProgStar Report No. 9). <i>JAMA Ophthalmology</i> , 2017 , 135, 1232-1241	3.9	53
131	A randomized, placebo-controlled clinical trial of docosahexaenoic acid supplementation for X-linked retinitis pigmentosa. <i>American Journal of Ophthalmology</i> , 2004 , 137, 704-18	4.9	53
130	Visual Acuity Loss and Associated Risk Factors in the Retrospective Progression of Stargardt Disease Study (ProgStar Report No. 2). <i>Ophthalmology</i> , 2016 , 123, 1887-97	7.3	52
129	Quantification of Ellipsoid Zone Changes in Retinitis Pigmentosa Using en Face Spectral Domain-Optical Coherence Tomography. <i>JAMA Ophthalmology</i> , 2016 , 134, 628-35	3.9	51
128	Rates of decline in regions of the visual field defined by frequency-domain optical coherence tomography in patients with RPGR-mediated X-linked retinitis pigmentosa. <i>Ophthalmology</i> , 2015 , 122, 833-9	7.3	50
127	Relationships among multifocal electroretinogram amplitude, visual field sensitivity, and SD-OCT receptor layer thicknesses in patients with retinitis pigmentosa 2012 , 53, 833-40		50
126	Abnormalities of the retinal cone system in retinitis pigmentosa. <i>Vision Research</i> , 1996 , 36, 1699-709	2.1	48
125	Macular Sensitivity Measured With Microperimetry in Stargardt Disease in the Progression of Atrophy Secondary to Stargardt Disease (ProgStar) Study: Report No. 7. <i>JAMA Ophthalmology</i> , 2017 , 135, 696-703	3.9	46
124	Four-year placebo-controlled trial of docosahexaenoic acid in X-linked retinitis pigmentosa (DHAX trial): a randomized clinical trial. <i>JAMA Ophthalmology</i> , 2014 , 132, 866-73	3.9	45
123	Variability of full-field electroretinogram responses in subjects without diffuse photoreceptor cell disease. <i>Ophthalmology</i> , 2003 , 110, 1159-63	7.3	44
122	Focal cone electroretinograms: aging and macular disease. <i>Documenta Ophthalmologica</i> , 1988 , 69, 211-20.2		44
121	Age-related macular degeneration: a target for nanotechnology derived medicines. <i>International Journal of Nanomedicine</i> , 2007 , 2, 65-77	7.3	44

120	Phase ii, randomized, placebo-controlled, 90-day study of emixustat hydrochloride in geographic atrophy associated with dry age-related macular degeneration. <i>Retina</i> , 2015 , 35, 1173-83	3.6	43
119	Safety and Proof-of-Concept Study of Oral QLT091001 in Retinitis Pigmentosa Due to Inherited Deficiencies of Retinal Pigment Epithelial 65 Protein (RPE65) or Lecithin:Retinol Acyltransferase (LRAT). <i>PLoS ONE</i> , 2015 , 10, e0143846	3.7	43
118	Biological safety assessment of docosahexaenoic acid supplementation in a randomized clinical trial for X-linked retinitis pigmentosa. <i>JAMA Ophthalmology</i> , 2003 , 121, 1269-78		43
117	Evidence for genetic heterogeneity in X-linked congenital stationary night blindness. <i>American Journal of Human Genetics</i> , 1998 , 62, 865-75	11	42
116	Impaired synthesis of DHA in patients with X-linked retinitis pigmentosa. <i>Journal of Lipid Research</i> , 2001 , 42, 1395-1401	6.3	42
115	Retinal degeneration in retinitis pigmentosa and neuronal ceroid lipofuscinosis: An overview. <i>Molecular Genetics and Metabolism</i> , 1999 , 66, 356-66	3.7	40
114	The Gly56Arg mutation in NR2E3 accounts for 1-2% of autosomal dominant retinitis pigmentosa. <i>Molecular Vision</i> , 2007 , 13, 1970-5	2.3	40
113	Loss of caveolin-1 impairs retinal function due to disturbance of subretinal microenvironment. <i>Journal of Biological Chemistry</i> , 2012 , 287, 16424-34	5.4	38
112	Incidence of Atrophic Lesions in Stargardt Disease in the Progression of Atrophy Secondary to Stargardt Disease (ProgStar) Study: Report No. 5. <i>JAMA Ophthalmology</i> , 2017 , 135, 687-695	3.9	36
111	Docosahexaenoic Acid Slows Visual Field Progression in X-Linked Retinitis Pigmentosa: Ancillary Outcomes of the DHAX Trial 2015 , 56, 6646-53		36
110	A dominant mutation in hexokinase 1 (HK1) causes retinitis pigmentosa 2014 , 55, 7147-58		36
109	Outcome measures and their application in clinical trials for retinal degenerative diseases: outline, review, and perspective. <i>Retina</i> , 2005 , 25, 772-7	3.6	36
108	Progression of Stargardt Disease as Determined by Fundus Autofluorescence Over a 12-Month Period: ProgStar Report No. 11. <i>JAMA Ophthalmology</i> , 2019 , 137, 1134-1145	3.9	35
107	A Comparison of Methods for Tracking Progression in X-Linked Retinitis Pigmentosa Using Frequency Domain OCT. <i>Translational Vision Science and Technology</i> , 2013 , 2, 5	3.3	35
106	Fatty acid profile of buccal cheek cell phospholipids as an index for dietary intake of docosahexaenoic acid in preterm infants. <i>Lipids</i> , 1999 , 34, 337-42	1.6	35
105	Recovery kinetics of human rod phototransduction inferred from the two-branched alpha-wave saturation function. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 1996 , 13, 586-600	1.8	35
104	Macular atrophy in birdshot retinochoroidopathy: an optical coherence tomography and multifocal electroretinography analysis. <i>Retina</i> , 2010 , 30, 930-7	3.6	34
103	A novel GCAP1(N104K) mutation in EF-hand 3 (EF3) linked to autosomal dominant cone dystrophy. <i>Vision Research</i> , 2008 , 48, 2425-32	2.1	33

102	Worldwide Argus II implantation: recommendations to optimize patient outcomes. <i>BMC Ophthalmology</i> , 2016 , 16, 52	2.3	32
101	Cone deactivation kinetics and GRK1/GRK7 expression in enhanced S cone syndrome caused by mutations in NR2E3. <i>Investigative Ophthalmology and Visual Science</i> , 2003 , 44, 1268-74		32
100	Functional characterization of mouse RDH11 as a retinol dehydrogenase involved in dark adaptation in vivo. <i>Journal of Biological Chemistry</i> , 2005 , 280, 20413-20	5.4	32
99	The focal electroretinogram in the clinical assessment of macular disease. <i>Ophthalmology</i> , 1989 , 96, 109-14	7.4	32
98	Mutations in the TOPORS gene cause 1% of autosomal dominant retinitis pigmentosa. <i>Molecular Vision</i> , 2008 , 14, 922-7	2.3	32
97	Abnormal cone structure in foveal schisis cavities in X-linked retinoschisis from mutations in exon 6 of the RS1 gene 2011 , 52, 9614-23		31
96	Retinal disease in mice lacking hypoxia-inducible transcription factor-2alpha. <i>Investigative Ophthalmology and Visual Science</i> , 2005 , 46, 1010-6		31
95	Dependence of cone b-wave implicit time on rod amplitude in retinitis pigmentosa. <i>Vision Research</i> , 1987 , 27, 1105-12	2.1	30
94	Targeted high-throughput DNA sequencing for gene discovery in retinitis pigmentosa. <i>Advances in Experimental Medicine and Biology</i> , 2010 , 664, 325-31	3.6	30
93	Behavioral measurements of rat spectral sensitivity. <i>Vision Research</i> , 1975 , 15, 687-91	2.1	29
92	Fixation Location and Stability Using the MP-1 Microperimeter in Stargardt Disease: ProgStar Report No. 3. <i>Ophthalmology Retina</i> , 2017 , 1, 68-76	3.8	28
91	Advancing Clinical Trials for Inherited Retinal Diseases: Recommendations from the Second Monaciano Symposium. <i>Translational Vision Science and Technology</i> , 2020 , 9, 2	3.3	28
90	Phenotypic characterization of 3 families with autosomal dominant retinitis pigmentosa due to mutations in KLHL7. <i>JAMA Ophthalmology</i> , 2011 , 129, 1475-82		27
89	Visual acuity and spatial contrast sensitivity in tree squirrels. <i>Behavioural Processes</i> , 1982 , 7, 367-75	1.6	27
88	Dark-Adapted Chromatic Perimetry for Measuring Rod Visual Fields in Patients with Retinitis Pigmentosa. <i>Translational Vision Science and Technology</i> , 2017 , 6, 15	3.3	26
87	Detailed genetic characteristics of an international large cohort of patients with Stargardt disease: ProgStar study report 8. <i>British Journal of Ophthalmology</i> , 2019 , 103, 390-397	5.5	26
86	Red blood cell fatty acid levels in patients with autosomal dominant retinitis pigmentosa. <i>Experimental Eye Research</i> , 1993 , 57, 359-68	3.7	26
85	Effects of constant illumination on vision in the albino rat. <i>Physiology and Behavior</i> , 1977 , 19, 255-9	3.5	26

84	Transcription factor PRDM8 is required for rod bipolar and type 2 OFF-cone bipolar cell survival and amacrine subtype identity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, E3010-9	11.5	25
83	Characterization of RP1L1, a highly polymorphic paralog of the retinitis pigmentosa 1 (RP1) gene. <i>Molecular Vision</i> , 2003 , 9, 129-37	2.3	25
82	A Novel Dominant Mutation in SAG, the Arrestin-1 Gene, Is a Common Cause of Retinitis Pigmentosa in Hispanic Families in the Southwestern United States 2017 , 58, 2774-2784		24
81	Effect of Oral Valproic Acid vs Placebo for Vision Loss in Patients With Autosomal Dominant Retinitis Pigmentosa: A Randomized Phase 2 Multicenter Placebo-Controlled Clinical Trial. <i>JAMA Ophthalmology</i> , 2018 , 136, 849-856	3.9	24
80	A double-blind placebo-controlled evaluation of the acute effects of sildenafil citrate (Viagra) on visual function in subjects with early-stage age-related macular degeneration. <i>American Journal of Ophthalmology</i> , 2002 , 133, 665-72	4.9	24
79	Effect of stimulus size on static visual fields in patients with retinitis pigmentosa. <i>Ophthalmology</i> , 2000 , 107, 1950-4	7.3	24
78	Metabolism of omega-3 fatty acids in patients with autosomal dominant retinitis pigmentosa. <i>Experimental Eye Research</i> , 1995 , 60, 279-89	3.7	23
77	Diagnosis of a mild peroxisomal phenotype with next-generation sequencing. <i>Molecular Genetics and Metabolism Reports</i> , 2016 , 9, 75-78	1.8	22
76	Leveraging splice-affecting variant predictors and a minigene validation system to identify Mendelian disease-causing variants among exon-captured variants of uncertain significance. <i>Human Mutation</i> , 2017 , 38, 1521-1533	4.7	22
75	ApoER2 function in the establishment and maintenance of retinal synaptic connectivity. <i>Journal of Neuroscience</i> , 2011 , 31, 14413-23	6.6	22
74	Mutations in known genes account for 58% of autosomal dominant retinitis pigmentosa (adRP). <i>Advances in Experimental Medicine and Biology</i> , 2008 , 613, 203-9	3.6	22
73	Safety assessment of docosahexaenoic acid in X-linked retinitis pigmentosa: the 4-year DHAX trial 2014 , 55, 4958-66		21
72	Cone and rod ERG phototransduction parameters in retinitis pigmentosa. <i>Investigative Ophthalmology and Visual Science</i> , 2003 , 44, 3993-4000		21
71	Submicrovolt full-field cone electroretinograms: artifacts and reproducibility. <i>Documenta Ophthalmologica</i> , 1996 , 92, 269-80	2.2	21
70	Light-induced damage to photopic and scotopic mechanisms in the rat depends on rearing conditions. <i>Experimental Neurology</i> , 1980 , 68, 269-83	5.7	21
69	North Carolina macular dystrophy (MCDR1) caused by a novel tandem duplication of the gene. <i>Molecular Vision</i> , 2016 , 22, 1239-1247	2.3	21
68	Longitudinal Changes of Fixation Location and Stability Within 12 Months in Stargardt Disease: ProgStar Report No. 12. <i>American Journal of Ophthalmology</i> , 2018 , 193, 54-61	4.9	20
67	Scotopic Microperimetric Assessment of Rod Function in Stargardt Disease (SMART) Study: Design and Baseline Characteristics (Report No. 1). <i>Ophthalmic Research</i> , 2019 , 61, 36-43	2.9	20

66	Characterizing the phenotype and genotype of a family with occult macular dystrophy. <i>JAMA Ophthalmology</i> , 2012 , 130, 1554-9		20
65	Visual phenotype in patients with Arg41Gln and Ala196+1bp mutations in the CRX gene. <i>Ophthalmic Genetics</i> , 2000 , 21, 89-99	1.2	20
64	Mutations in the small nuclear riboprotein 200 kDa gene (SNRNP200) cause 1.6% of autosomal dominant retinitis pigmentosa. <i>Molecular Vision</i> , 2013 , 19, 2407-17	2.3	20
63	A Workshop on Measuring the Progression of Atrophy Secondary to Stargardt Disease in the ProgStar Studies: Findings and Lessons Learned. <i>Translational Vision Science and Technology</i> , 2019 , 8, 16	3.3	19
62	Increment-threshold functions for different rodent species. <i>Vision Research</i> , 1975 , 15, 375-8	2.1	19
61	Pupillometric measures of retinal sensitivity in infants and adults with retinitis pigmentosa. <i>Vision Research</i> , 1987 , 27, 499-505	2.1	18
60	Structure/Psychophysical Relationships in X-Linked Retinoschisis 2016 , 57, 332-7		18
59	Reliability of a Manual Procedure for Marking the EZ Endpoint Location in Patients with Retinitis Pigmentosa. <i>Translational Vision Science and Technology</i> , 2016 , 5, 6	3.3	18
58	Regional Variations and Intra-/Intersession Repeatability for Scotopic Sensitivity in Normal Controls and Patients With Inherited Retinal Degenerations 2019 , 60, 1122-1131		17
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