William W Hauswirth

List of Publications by Year
in descending order

283	24,297	7568 77	10445 139
papers	citations	h-index	g-index

287	287	287	14057
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Gene therapy restores vision in a canine model of childhood blindness. Nature Genetics, 2001, 28, 92-95.	21.4	1,130
2	Treatment of Leber Congenital Amaurosis Due toRPE65Mutations by Ocular Subretinal Injection of Adeno-Associated Virus Gene Vector: Short-Term Results of a Phase I Trial. Human Gene Therapy, 2008, 19, 979-990.	2.7	880
3	Human gene therapy for RPE65 isomerase deficiency activates the retinoid cycle of vision but with slow rod kinetics. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 15112-15117.	7.1	639
4	Gene Therapy for Leber Congenital Amaurosis Caused by RPE65 Mutations. JAMA Ophthalmology, 2012, 130, 9.	2.4	580
5	DICER1 deficit induces Alu RNA toxicity in age-related macular degeneration. Nature, 2011, 471, 325-330.	27.8	573
6	DICER1 Loss and Alu RNA Induce Age-Related Macular Degeneration via the NLRP3 Inflammasome and MyD88. Cell, 2012, 149, 847-859.	28.9	526
7	Production and purification of serotype 1, 2, and 5 recombinant adeno-associated viral vectors. Methods, 2002, 28, 158-167.	3.8	514
8	Long-Term Restoration of Rod and Cone Vision by Single Dose rAAV-Mediated Gene Transfer to the Retina in a Canine Model of Childhood Blindness. Molecular Therapy, 2005, 12, 1072-1082.	8.2	421
9	Human retinal gene therapy for Leber congenital amaurosis shows advancing retinal degeneration despite enduring visual improvement. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, E517-25.	7.1	401
10	Ribozyme rescue of photoreceptor cells in a transgenic rat model of autosomal dominant retinitis pigmentosa. Nature Medicine, 1998, 4, 967-971.	30.7	396
11	High-efficiency Transduction of the Mouse Retina by Tyrosine-mutant AAV Serotype Vectors. Molecular Therapy, 2009, 17, 463-471.	8.2	355
12	Gene Therapy with Brain-Derived Neurotrophic Factor As a Protection: Retinal Ganglion Cells in a Rat Glaucoma Model. , 2003, 44, 4357.		336
13	Improvement and Decline in Vision with Gene Therapy in Childhood Blindness. New England Journal of Medicine, 2015, 372, 1920-1926.	27.0	333
14	HumanRPE65Gene Therapy for Leber Congenital Amaurosis: Persistence of Early Visual Improvements and Safety at 1 Year. Human Gene Therapy, 2009, 20, 999-1004.	2.7	305
15	Gene therapy for redâ€“green colour blindness in adult primates. Nature, 2009, 461, 784-787.	27.8	282
16	Effects of Adeno-associated Virus-vectored Ciliary Neurotrophic Factor on Retinal Structure and Function in Mice with a P216L rds/peripherin Mutation. Experimental Eye Research, 2002, 74, 719-735.	2.6	267
17	Restoration of visual function in P23H rhodopsin transgenic rats by gene delivery of BiP/Grp78. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 5961-5966.	7.1	265
18	Virally delivered Channelrhodopsin-2 Safely and Effectively Restores Visual Function in Multiple Mouse Models of Blindness. Molecular Therapy, 2011, 19, 1220-1229.	8.2	261

#	Article	IF	Citations
19	Rescue of a mitochondrial deficiency causing Leber hereditary optic neuropathy. Annals of Neurology, 2002, 52, 534-542.	5.3	253
20	TrkB Gene Transfer Protects Retinal Ganglion Cells from Axotomy-Induced DeathIn Vivo. Journal of Neuroscience, 2002, 22, 3977-3986.	3.6	245
21	A Comprehensive Review of Retinal Gene Therapy. Molecular Therapy, 2013, 21, 509-519.	8.2	245
22	Functional genomic screening identifies dual leucine zipper kinase as a key mediator of retinal ganglion cell death. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 4045-4050.	7.1	239
23	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
24	Gene therapy rescues cone function in congenital achromatopsia. Human Molecular Genetics, 2010, 19, 2581-2593.	2.9	235
25	Novel Properties of Tyrosine-mutant AAV2 Vectors in the Mouse Retina. Molecular Therapy, 2011, 19, 293-301.	8.2	234
26	Nucleotide sequence evidence for rapid genotypic shifts in the bovine mitochondrial DNA D-loop. Nature, 1983, 306, 400-402.	27.8	231
27	DicerInactivation Leads to Progressive Functional and Structural Degeneration of the Mouse Retina. Journal of Neuroscience, 2008, 28, 4878-4887.	3.6	204
28	SOD2 Knockdown Mouse Model of Early AMD. , 2007, 48, 4407.		201
29	Restoration of cone vision in a mouse model of achromatopsia. Nature Medicine, 2007, 13, 685-687.	30.7	200
30	Vision 1 Year after Gene Therapy for Leber's Congenital Amaurosis. New England Journal of Medicine, 2009, 361, 725-727.	27.0	197
31	Safety of Recombinant Adeno-Associated Virus Type 2â€“RPE65 Vector Delivered by Ocular Subretinal Injection. Molecular Therapy, 2006, 13, 1074-1084.	8.2	196
32	Effect of CNTF on Retinal Ganglion Cell Survival in Experimental Glaucoma. , 2009, 50, 2194.		195
33	Treatment of retinitis pigmentosa due to MERTK mutations by ocular subretinal injection of adeno-associated virus gene vector: results of a phase I trial. Human Genetics, 2016, 135, 327-343.	3.8	195
34	Gene Therapy Restores Vision-Dependent Behavior as Well as Retinal Structure and Function in a Mouse Model of RPE65 Leber Congenital Amaurosis. Molecular Therapy, 2006, 13, 565-572.	8.2	185
35	Results at 2 Years after Gene Therapy for RPE65-Deficient Leber Congenital Amaurosis and Severe Early-Childhoodâ€“Onset Retinal Dystrophy. Ophthalmology, 2016, 123, 1606-1620.	5.2	184
36	Origin and termination of adeno-associated virus DNA replication. Virology, 1977, 78, 488-499.	2.4	183

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37	Glial Cell Line Derived Neurotrophic Factor Delays Photoreceptor Degeneration in a Transgenic Rat Model of Retinitis Pigmentosa. Molecular Therapy, 2001, 4, 622-629.	8.2	173
38	Gene Therapy for Leber Hereditary Optic Neuropathy. Ophthalmology, 2017, 124, 1621-1634.	5.2	172
39	AAV-mediated gene transfer of pigment epithelium-derived factor inhibits choroidal neovascularization. Investigative Ophthalmology and Visual Science, 2002, 43, 1994-2000.	3.3	168
40	Prolonged Recovery of Retinal Structure/Function after Gene Therapy in an Rs1h-Deficient Mouse Model of X-Linked Juvenile Retinoschisis. Molecular Therapy, 2005, 12, 644-651.	8.2	166
41	Dual AAV-mediated gene therapy restores hearing in a DFNB9 mouse model. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 4496-4501.	7.1	162
42	Retinal degeneration 12 (rd12): a new, spontaneously arising mouse model for human Leber congenital amaurosis (LCA). Molecular Vision, 2005, 11, 152-62.	1.1	159
43	Gene delivery to mitochondria by targeting modified adenoassociated virus suppresses Leberâ€™s hereditary optic neuropathy in a mouse model. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, E1238-47.	7.1	153
44	[48] Production and purification of recombinant adeno-associated virus. Methods in Enzymology, 2000, 316, 743-761.	1.0	152
45	Baculoviral IAP Repeat-Containing-4 Protects Optic Nerve Axons in a Rat Glaucoma Model. Molecular Therapy, 2002, 5, 780-787.	8.2	151
46	Anatomical, cellular and molecular analysis of 8,000-yr-old human brain tissue from the Windover archaeological site. Nature, 1986, 323, 803-806.	27.8	147
47	ACE2 and Ang-(1-7) Confer Protection Against Development of Diabetic Retinopathy. Molecular Therapy, 2012, 20, 28-36.	8.2	143
48	Targeting Photoreceptors via Intravitreal Delivery Using Novel, Capsid-Mutated AAV Vectors. PLoS ONE, 2013, 8, e62097.	2.5	143
49	Safety in Nonhuman Primates of Ocular AAV2-RPE65, a Candidate Treatment for Blindness in Leber Congenital Amaurosis. Human Gene Therapy, 2006, 17, 845-858.	2.7	142
50	Intraocular route of AAV2 vector administration defines humoral immune response and therapeutic potential. Molecular Vision, 2008, 14, 1760-9.	1.1	140
51	Long-term Retinal Function and Structure Rescue Using Capsid Mutant AAV8 Vector in the rd10 Mouse, a Model of Recessive Retinitis Pigmentosa. Molecular Therapy, 2011, 19, 234-242.	8.2	135
52	IL-10 Suppresses Chemokines, Inflammation, and Fibrosis in a Model of Chronic Renal Disease. Journal of the American Society of Nephrology: JASN, 2005, 16, 3651-3660.	6.1	134
53	AAV-Mediated Gene Therapy for Retinal Degeneration in therd10Mouse Containing a Recessive PDEÎ² Mutation. , 2008, 49, 4278.		133
54	Title is missing!. Nature Genetics, 2001, 28, 92-95.	21.4	132

#	Article	IF	Citations
55	Ancient HLA genes from 7,500-year-old archaeological remains. Nature, 1991, 349, 785-788.	27.8	126
56	Adeno-associated virus type-2 expression of pigmented epithelium-derived factor or Kringles 1â€“3 of angiostatin reduce retinal neovascularization. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 8909-8914.	7.1	124
57	Mitochondrial Protein Nitration Primes Neurodegeneration in Experimental Autoimmune Encephalomyelitis. Journal of Biological Chemistry, 2006, 281, 31950-31962.	3.4	123
58	Pharmacological and rAAV Gene Therapy Rescue of Visual Functions in a Blind Mouse Model of Leber Congenital Amaurosis. PLoS Medicine, 2005, 2, e333.	8.4	120
59	Suppression of Mitochondrial Oxidative Stress Provides Long-term Neuroprotection in Experimental Optic Neuritis. , 2007, 48, 681.		115
60	Mutation-independent rhodopsin gene therapy by knockdown and replacement with a single AAV vector. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E8547-E8556.	7.1	114
61	Canine and Human Visual Cortex Intact and Responsive Despite Early Retinal Blindness from RPE65 Mutation. PLoS Medicine, 2007, 4, e230.	8.4	107
62	The Mutant Human ND4 Subunit of Complex I Induces Optic Neuropathy in the Mouse. , 2007, 48, 1.		107
63	Ribozyme gene therapy: applications for molecular medicine. Trends in Molecular Medicine, 2001, 7, 221-228.	6.7	106
64	Dual Adeno-Associated Virus Vectors Result in EfficientIn VitroandIn VivoExpression of an Oversized Gene,MYO7A. Human Gene Therapy Methods, 2014, 25, 166-177.	2.1	105
65	AAV-Mediated Cone Rescue in a Naturally Occurring Mouse Model of CNGA3-Achromatopsia. PLoS ONE, 2012, 7, e35250.	2.5	105
66	AAV Delivery of Wild-Type Rhodopsin Preserves Retinal Function in a Mouse Model of Autosomal Dominant Retinitis Pigmentosa. Human Gene Therapy, 2011, 22, 567-575.	2.7	104
67	Interleukin 10 attenuates neointimal proliferation and inflammation in aortic allografts by a heme oxygenase-dependent pathway. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 7251-7256.	7.1	101
68	Diabetic eNOS-Knockout Mice Develop Accelerated Retinopathy. , 2010, 51, 5240.		101
69	Lentiviral Gene Transfer of Rpe65 Rescues Survival and Function of Cones in a Mouse Model of Leber Congenital Amaurosis. PLoS Medicine, 2006, 3, e347.	8.4	100
70	The Human Rhodopsin Kinase Promoter in an AAV5 Vector Confers Rod- and Cone-Specific Expression in the Primate Retina. Human Gene Therapy, 2012, 23, 1101-1115.	2.7	99
71	Adeno-Associated Virus-Vectored Gene Therapy for Retinal Disease. Human Gene Therapy, 2005, 16, 649-663.	2.7	98
72	ERK1/2 activation is a therapeutic target in age-related macular degeneration. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 13781-13786.	7.1	98

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73	Gene Augmentation Therapy Restores Retinal Function and Visual Behavior in a Sheep Model of CNGA3 Achromatopsia. Molecular Therapy, 2015, 23, 1423-1433.	8.2	93
74	Adeno-associated virus DNA replication: Nonunit-length molecules. Virology, 1979, 93, 57-68.	2.4	92
75	Advancing Therapeutic Strategies for Inherited Retinal Degeneration: Recommendations From the Monaciano Symposium. Investigative Ophthalmology and Visual Science, 2015, 56, 918-931.	3.3	92
76	Effect of Late-stage Therapy on Disease Progression in AAV-mediated Rescue of Photoreceptor Cells in the Retinoschisin-deficient Mouse. Molecular Therapy, 2008, 16, 1010-1017.	8.2	91
77	Residual Foveal Cone Structure in CNGB3-Associated Achromatopsia. , 2016, 57, 3984.		90
78	Complement C3-Targeted Gene Therapy Restricts Onset and Progression of Neurodegeneration in Chronic Mouse Glaucoma. Molecular Therapy, 2018, 26, 2379-2396.	8.2	89
79	Functional and Behavioral Restoration of Vision by Gene Therapy in the Guanylate Cyclase-1 (GC1) Knockout Mouse. PLoS ONE, 2010, 5, e11306.	2.5	89
80	Comparative analysis of in vivo and in vitro AAV vector transduction in the neonatal mouse retina: Effects of serotype and site of administration. Vision Research, 2008, 48, 377-385.	1.4	87
81	Efficient Transduction of Vascular Endothelial Cells with Recombinant Adeno-Associated Virus Serotype 1 and 5 Vectors. Human Gene Therapy, 2005, 16, 235-247.	2.7	84
82	Inhibition of Choroidal Neovascularization in a Nonhuman Primate Model by Intravitreal Administration of an AAV2 Vector Expressing a Novel Anti-VEGF Molecule. Molecular Therapy, 2011, 19, 260-265.	8.2	84
83	Preclinical Potency and Safety Studies of an AAV2-Mediated Gene Therapy Vector for the Treatment of MERTK Associated Retinitis Pigmentosa. Human Gene Therapy Clinical Development, 2013, 24, 23-28.	3.1	84
84	Suppression of complex I gene expression induces optic neuropathy. Annals of Neurology, 2003, 53, 198-205.	5.3	83
85	Safety and Effects of the Vector for the Leber Hereditary Optic Neuropathy Gene Therapy Clinical Trial. JAMA Ophthalmology, 2014, 132, 409.	2.5	83
86	Length heterogeneity of a conserved displacement-loop sequence in human mitochondrial DNA. Nucleic Acids Research, 1985, 13, 8093-8104.	14.5	80
87	Gene therapy prevents photoreceptor death and preserves retinal function in a Bardet-Biedl syndrome mouse model. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 6276-6281.	7.1	80
88	DICER1/ Alu RNA dysmetabolism induces Caspase-8â€“mediated cell death in age-related macular degeneration. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 16082-16087.	7.1	79
89	Efficiency and Safety of AAV-Mediated Gene Delivery of the Human ND4 Complex I Subunit in the Mouse Visual System. , 2009, 50, 4205.		76
90	Long-Term Rescue of Retinal Structure and Function by Rhodopsin RNA Replacement with a Single Adeno-Associated Viral Vector in P23HRHOTransgenic Mice. Human Gene Therapy, 2012, 23, 356-366.	2.7	76

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91	ER Stress Is Involved in T17M Rhodopsin-Induced Retinal Degeneration. , 2012, 53, 3792.		75
92	Successful arrest of photoreceptor and vision loss expands the therapeutic window of retinal gene therapy to later stages of disease. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, E5844-53.	7.1	75
93	Photoreceptor avascular privilege is shielded by soluble VEGF receptor-1. ELife, 2013, 2, e00324.	6.0	75
94	Intraocular CNTF Reduces Vision in Normal Rats in a Dose-Dependent Manner. , 2007, 48, 5756.		74
95	Transient Photoreceptor Deconstruction by CNTF Enhances rAAV-Mediated Cone Functional Rescue in Late Stage CNGB3-Achromatopsia. Molecular Therapy, 2013, 21, 1131-1141.	8.2	74
96	SOD2 gene transfer protects against optic neuropathy induced by deficiency of complex I. Annals of Neurology, 2004, 56, 182-191.	5.3	73
97	Brain-Derived Neurotrophic Factor Gene Transfer With Adeno-Associated Viral and Lentiviral Vectors Prevents Rubrospinal Neuronal Atrophy and Stimulates Regeneration-Associated Gene Expression After Acute Cervical Spinal Cord Injury. Spine, 2007, 32, 1164-1173.	2.0	73
98	XIAP Protection of Photoreceptors in Animal Models of Retinitis Pigmentosa. PLoS ONE, 2007, 2, e314.	2.5	73
99	Genetically Targeted Binary Labeling of Retinal Neurons. Journal of Neuroscience, 2014, 34, 7845-7861.	3.6	72
100	Adeno-Associated Virus Type 2 and Hepatocellular Carcinoma?. Human Gene Therapy, 2015, 26, 779-781.	2.7	71
101	Extracellular signal-regulated kinase 1/2 mediates survival, but not axon regeneration, of adult injured central nervous system neurons in vivo. Journal of Neurochemistry, 2005, 93, 72-83.	3.9	70
102	Molecular and Cellular Alterations Induced by Sustained Expression of Ciliary Neurotrophic Factor in a Mouse Model of Retinitis Pigmentosa. , 2007, 48, 1389.		70
103	Light-Driven Cone Arrestin Translocation in Cones of Postnatal Guanylate Cyclase-1 Knockout Mouse Retina Treated with AAV-GC1. , 2006, 47, 3745.		68
104	Leber Hereditary Optic Neuropathy Gene Therapy Clinical Trial Recruitment. JAMA Ophthalmology, 2010, 128, 1129.	2.4	68
105	Highly Efficient Delivery of Adeno-Associated Viral Vectors to the Primate Retina. Human Gene Therapy, 2016, 27, 580-597.	2.7	68
106	Molecular Anthropology Meets Genetic Medicine to Treat Blindness in the North African Jewish Population: Human Gene Therapy Initiated in Israel. Human Gene Therapy, 2010, 21, 1749-1757.	2.7	65
107	Whirlin Replacement Restores the Formation of the USH2 Protein Complex in Whirlin Knockout Photoreceptors. , 2011, 52, 2343.		64
108	Modeling and Preventing Progressive Hearing Loss in Usher Syndrome III. Scientific Reports, 2017, 7, 13480.	3.3	63

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109	BEST1 gene therapy corrects a diffuse retina-wide microdetachment modulated by light exposure. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E2839-E2848.	7.1	62
110	AAV-Mediated Gene Therapy in the Guanylate Cyclase (RetGC1/RetGC2) Double Knockout Mouse Model of Leber Congenital Amaurosis. Human Gene Therapy, 2013, 24, 189-202.	2.7	60
111	Optimization of Retinal Gene Therapy for X-Linked Retinitis Pigmentosa Due to RPGR Mutations. Molecular Therapy, 2017, 25, 1866-1880.	8.2	60
112	Cone-Specific Promoters for Gene Therapy of Achromatopsia and Other Retinal Diseases. Human Gene Therapy, 2016, 27, 72-82.	2.7	59
113	Increased Sensitivity to Light-Induced Damage in a Mouse Model of Autosomal Dominant Retinal Disease. , 2007, 48, 1942.		58
114	Long-term Preservation of Cone Photoreceptors and Restoration of Cone Function by Gene Therapy in the Guanylate Cyclase-1 Knockout (GC1KO) Mouse. , 2011, 52, 7098.		58
115	Gene Therapy Rescues Cone Structure and Function in the 3-Month-Oldrd12Mouse: A Model for Midcourse RPE65 Leber Congenital Amaurosis. , 2011, 52, 7.		58
116	Long-Term Structural Outcomes of Late-Stage RPE65 Gene Therapy. Molecular Therapy, 2020, 28, 266-278.	8.2	56
117	Mechanistic Basis for the Failure of Cone Transducin to Translocate: Why Cones Are Never Blinded by Light. Journal of Neuroscience, 2010, 30, 6815-6824.	3.6	54
118	CCN2/CTGF regulates neovessel formation via targeting structurally conserved cystine knot motifs in multiple angiogenic regulators. FASEB Journal, 2012, 26, 3365-3379.	0.5	54
119	Safety and Biodistribution Evaluation in Cynomolgus Macaques of rAAV2tYF-PR1.7-hCNGB3, a Recombinant AAV Vector for Treatment of Achromatopsia. Human Gene Therapy Clinical Development, 2016, 27, 37-48.	3.1	53
120	Long-term Suppression of Neurodegeneration in Chronic Experimental Optic Neuritis: Antioxidant Gene Therapy. , 2007, 48, 5360.		52
121	LHON Gene Therapy Vector Prevents Visual Loss and Optic Neuropathy Induced by G11778A Mutant Mitochondrial DNA: Biodistribution and Toxicology Profile. Investigative Ophthalmology and Visual Science, 2014, 55, 7739-7753.	3.3	52
122	Structural and Functional Protection of Photoreceptors from MNU-Induced Retinal Degeneration by the X-Linked Inhibitor of Apoptosis. , 2003, 44, 2757.		51
123	Use of Mitochondrial Antioxidant Defenses for Rescue of Cells With a Leber Hereditary Optic Neuropathyâ€“Causing Mutation. JAMA Ophthalmology, 2007, 125, 268.	2.4	51
124	Clarin-1, Encoded by the Usher Syndrome III Causative Gene, Forms a Membranous Microdomain. Journal of Biological Chemistry, 2009, 284, 18980-18993.	3.4	51
125	Ab-Externo AAV-Mediated Gene Delivery to the Suprachoroidal Space Using a 250 Micron Flexible Microcatheter. PLoS ONE, 2011, 6, e17140.	2.5	50
126	RD3 gene delivery restores guanylate cyclase localization and rescues photoreceptors in the Rd3 mouse model of Leber congenital amaurosis 12. Human Molecular Genetics, 2013, 22, 3894-3905.	2.9	50

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127	REPEATABILITY AND LONGITUDINAL ASSESSMENT OF FOVEAL CONE STRUCTURE IN CNGB3-ASSOCIATED ACHROMATOPSIA. Retina, 2017, 37, 1956-1966.	1.7	50
128	Tyrosine-Mutant AAV8 Delivery of HumanMERTKProvides Long-Term Retinal Preservation in RCS Rats. , 2012, 53, 1895.		48
129	Rationally Engineered AAV Capsids Improve Transduction and Volumetric Spread in the CNS. Molecular Therapy - Nucleic Acids, 2017, 8, 184-197.	5.1	48
130	Patients and animal models of CNGÎ²1-deficient retinitis pigmentosa support gene augmentation approach. Journal of Clinical Investigation, 2017, 128, 190-206.	8.2	48
131	Recombinant AAV-Mediated BEST1 Transfer to the Retinal Pigment Epithelium: Analysis of Serotype-Dependent Retinal Effects. PLoS ONE, 2013, 8, e75666.	2.5	48
132	Self-complementary AAV5 vector facilitates quicker transgene expression inÂphotoreceptor and retinal pigment epithelial cells of normal mouse. Experimental Eye Research, 2010, 90, 546-554.	2.6	47
133	XIAP Therapy Increases Survival of Transplanted Rod Precursors in a Degenerating Host Retina. , 2011, 52, 1567.		47
134	Stability and Safety of an AAV Vector for Treating RPGR-ORF15 X-Linked Retinitis Pigmentosa. Human Gene Therapy, 2015, 26, 593-602.	2.7	47
135	Induction of Rapid and Highly Efficient Expression of the Human ND4 Complex I Subunit in the Mouse Visual System by Self-complementary Adeno-Associated Virus. JAMA Ophthalmology, 2010, 128, 876.	2.4	46
136	Long-term RNA interference gene therapy in a dominant retinitis pigmentosa mouse model. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 18476-18481.	7.1	46
137	Imaging the response of the retina to electrical stimulation with genetically encoded calcium indicators. Journal of Neurophysiology, 2013, 109, 1979-1988.	1.8	45
138	In vivo knockdown of Piccolino disrupts presynaptic ribbon morphology in mouse photoreceptor synapses. Frontiers in Cellular Neuroscience, 2014, 8, 259.	3.7	44
139	Targeted CNS delivery using human MiniPromoters and demonstrated compatibility with adeno-associated viral vectors. Molecular Therapy - Methods and Clinical Development, 2014, 1, 5.	4.1	44
140	Gene therapy using self-complementary Y733F capsid mutant AAV2/8 restores vision in a model of early onset Leber congenital amaurosis. Human Molecular Genetics, 2011, 20, 4569-4581.	2.9	43
141	Anti-apoptotic effects of CNTF gene transfer on photoreceptor degeneration in experimental antibody-induced retinopathy. Journal of Autoimmunity, 2003, 21, 121-129.	6.5	42
142	Cone-specific expression using a human red opsin promoter in recombinant AAV. Vision Research, 2008, 48, 332-338.	1.4	42
143	Î³-Secretase and Presenilin Mediate Cleavage and Phosphorylation of Vascular Endothelial Growth Factor Receptor-1. Journal of Biological Chemistry, 2011, 286, 42514-42523.	3.4	41
144	ELOVL4-Mediated Production of Very Long-Chain Ceramides Stabilizes Tight Junctions and Prevents Diabetes-Induced Retinal Vascular Permeability. Diabetes, 2018, 67, 769-781.	0.6	41

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145	Lowering Blood Pressure Blocks Mesangiolysis and Mesangial Nodules, but Not Tubulointerstitial Injury, in Diabetic eNOS Knockout Mice. American Journal of Pathology, 2009, 174, 1221-1229.	3.8	40
146	Kinesin family 17 (osmotic avoidance abnormalâ€3) is dispensable for photoreceptor morphology and function. FASEB Journal, 2015, 29, 4866-4880.	0.5	40
147	Gene therapy following subretinal AAV5 vector delivery is not affected by a previous intravitreal AAV5 vector administration in the partner eye. Molecular Vision, 2009, 15, 267-75.	1.1	40
148	Functional interchangeability of rod and cone transducin Î±-subunits. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 17681-17686.	7.1	39
149	Pseudo-Fovea Formation After Gene Therapy for RPE65-LCA. Investigative Ophthalmology and Visual Science, 2015, 56, 526-537.	3.3	39
150	Knockdown of wild-type mouse rhodopsin using an AAV vectored ribozyme as part of an RNA replacement approach. Molecular Vision, 2005, 11, 648-56.	1.1	39
151	Downregulation of p22phox in Retinal Pigment Epithelial Cells Inhibits Choroidal Neovascularization in Mice. Molecular Therapy, 2008, 16, 1688-1694.	8.2	38
152	Gene Therapy Fully Restores Vision to the All-Cone Nrl^{â^'/â^'}Gucy2e^{â^'/â^'} Mouse Model of Leber Congenital Amaurosis-1. Human Gene Therapy, 2015, 26, 575-592.	2.7	38
153	Targeted Gene Delivery to the Enteric Nervous System Using AAV: A Comparison Across Serotypes and Capsid Mutants. Molecular Therapy, 2015, 23, 488-500.	8.2	38
154	Dual ABCA4-AAV Vector Treatment Reduces Pathogenic Retinal A2E Accumulation in a Mouse Model of Autosomal Recessive Stargardt Disease. Human Gene Therapy, 2019, 30, 1361-1370.	2.7	38
155	Achromatopsia as a Potential Candidate for Gene Therapy. Advances in Experimental Medicine and Biology, 2010, 664, 639-646.	1.6	38
156	Effects on XIAP Retinal Detachmentâ€"Induced Photoreceptor Apoptosis. , 2009, 50, 1448.		37
157	Occludin S490 Phosphorylation Regulates Vascular Endothelial Growth Factorâ€"Induced Retinal Neovascularization. American Journal of Pathology, 2016, 186, 2486-2499.	3.8	37
158	Human Blue-Opsin Promoter Preferentially Targets Reporter Gene Expression to Rat S-Cone Photoreceptors. , 2006, 47, 3505.		35
159	Gene Therapy for Retinitis Pigmentosa Caused by MFRP Mutations: Human Phenotype and Preliminary Proof of Concept. Human Gene Therapy, 2012, 23, 367-376.	2.7	35
160	Organizational motifs for ground squirrel cone bipolar cells. Journal of Comparative Neurology, 2012, 520, 2864-2887.	1.6	35
161	Angiostatin overexpression is associated with an improvement in chronic kidney injury by an anti-inflammatory mechanism. American Journal of Physiology - Renal Physiology, 2009, 296, F145-F152.	2.7	34
162	Role of Connective Tissue Growth Factor in the Retinal Vasculature during Development and Ischemia. , 2011, 52, 8701.		34

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163	Recombinant Adeno-Associated Virus Vector-Based Gene Transfer for Defects in Oxidative Metabolism. Human Gene Therapy, 2000, 11, 2067-2078.	2.7	33
164	Adeno-Associated Viral Vectors and the Retina. Advances in Experimental Medicine and Biology, 2008, 613, 121-128.	1.6	33
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