

T Michael Redmond

List of Publications by Year in descending order

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113
papers

10,198
citations

94433

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38395

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117
all docs

117
docs citations

117
times ranked

6497
citing authors

#	ARTICLE	IF	CITATIONS
1	Xanthophylls Modulate Palmitoylation of Mammalian β -Carotene Oxygenase 2. <i>Antioxidants</i> , 2021, 10, 413.	5.1	4
2	The Functional Consequences of the Novel Ribosomal Pausing Site in SARS-CoV-2 Spike Glycoprotein RNA. <i>International Journal of Molecular Sciences</i> , 2021, 22, 6490.	4.1	12
3	CIB2 regulates mTORC1 signaling and is essential for autophagy and visual function. <i>Nature Communications</i> , 2021, 12, 3906.	12.8	28
4	Proposed therapy, developed in a Pcdh15-deficient mouse, for progressive loss of vision in human Usher syndrome. <i>ELife</i> , 2021, 10, .	6.0	12
5	Evolutionary aspects and enzymology of metazoan carotenoid cleavage oxygenases. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2020, 1865, 158665.	2.4	16
6	Palmitoylation of Metazoan Carotenoid Oxygenases. <i>Molecules</i> , 2020, 25, 1942.	3.8	4
7	Stable Intronic Sequences and Exon Skipping Events in the Human RPE65 Gene: Analysis of Expression in Retinal Pigment Epithelium Cells and Cell Culture Models. <i>Frontiers in Genetics</i> , 2019, 10, 634.	2.3	3
8	Utility of In Vitro Mutagenesis of RPE65 Protein for Verification of Mutational Pathogenicity Before Gene Therapy. <i>JAMA Ophthalmology</i> , 2019, 137, 1381.	2.5	11
9	The dual roles of RPE65 S-palmitoylation in membrane association and visual cycle function. <i>Scientific Reports</i> , 2019, 9, 5218.	3.3	19
10	Volatile Evolution of Long Non-Coding RNA Repertoire in Retinal Pigment Epithelium: Insights from Comparison of Bovine and Human RNA Expression Profiles. <i>Genes</i> , 2019, 10, 205.	2.4	10
11	Aberrant RNA splicing is the major pathogenic effect in a knock-out mouse model of the dominantly inherited c.1430A>G human RPE65 mutation. <i>Human Mutation</i> , 2019, 40, 426-443.	2.5	22
12	RPE65 Palmitoylation: A Tale of Lipid Posttranslational Modification. <i>Advances in Experimental Medicine and Biology</i> , 2019, 1185, 537-541.	1.6	3
13	Proinflammatory cytokine interferon- β increases the expression of BANCR, a long non-coding RNA, in retinal pigment epithelial cells. <i>Cytokine</i> , 2018, 104, 147-150.	3.2	23
14	Expression of ABCA4 in the retinal pigment epithelium and its implications for Stargardt macular degeneration. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, E11120-E11127.	7.1	112
15	Inhibition of thyroid hormone receptor locally in the retina is a therapeutic strategy for retinal degeneration. <i>FASEB Journal</i> , 2017, 31, 3425-3438.	0.5	12
16	RPE65 takes on another role in the vertebrate retina. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 10818-10820.	7.1	5
17	Phylogenetic analysis of the metazoan carotenoid oxygenase superfamily: a new ancestral gene assemblage of BCO-like (BCOL) proteins. <i>Scientific Reports</i> , 2017, 7, 13192.	3.3	20
18	Inhibitory effects of fenretinide metabolites N-[4-methoxyphenyl]retinamide (MPR) and 4-oxo-N-(4-hydroxyphenyl)retinamide (3-keto-HPR) on fenretinide molecular targets β -carotene oxygenase 1, stearyl-CoA desaturase 1 and dihydroceramide β -4-desaturase 1. <i>PLoS ONE</i> , 2017, 12, e0176487.	2.5	13

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19	Appropriately differentiated ARPE-19 cells regain phenotype and gene expression profiles similar to those of native RPE cells. <i>Molecular Vision</i> , 2017, 23, 60-89.	1.1	100
20	Targeting iodothyronine deiodinases locally in the retina is a therapeutic strategy for retinal degeneration. <i>FASEB Journal</i> , 2016, 30, 4313-4325.	0.5	16
21	Inhibition of RPE65 Retinol Isomerase Activity by Inhibitors of Lipid Metabolism. <i>Journal of Biological Chemistry</i> , 2016, 291, 4966-4973.	3.4	6
22	Proinflammatory cytokines decrease the expression of genes critical for RPE function. <i>Molecular Vision</i> , 2016, 22, 1156-1168.	1.1	34
23	Resveratrol attenuates CXCL11 expression induced by proinflammatory cytokines in retinal pigment epithelial cells. <i>Cytokine</i> , 2015, 74, 335-338.	3.2	16
24	A History of the Classical Visual Cycle. <i>Progress in Molecular Biology and Translational Science</i> , 2015, 134, 433-448.	1.7	34
25	Mouse model of human RPE65 P25L hypomorph resembles wild type under normal light rearing but is fully resistant to acute light damage. <i>Human Molecular Genetics</i> , 2015, 24, 4417-4428.	2.9	19
26	Fenretinide Induces Ubiquitin-Dependent Proteasomal Degradation of Stearoyl-CoA Desaturase in Human Retinal Pigment Epithelial Cells. <i>Journal of Cellular Physiology</i> , 2014, 229, 1028-1038.	4.1	13
27	The Rpe65 ^{rd12} Allele Exerts a Semidominant Negative Effect on Vision in Mice. , 2014, 55, 2500.		14
28	Suppressing thyroid hormone signaling preserves cone photoreceptors in mouse models of retinal degeneration. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 3602-3607.	7.1	47
29	Multiple A2E treatments lead to melanization of rod outer segment-challenged ARPE-19 cells. <i>Molecular Vision</i> , 2014, 20, 285-300.	1.1	24
30	Complementation Test of Rpe65 Knockout and Tvrn148. , 2013, 54, 5111.		9
31	Differential regulation of microRNA-146a and microRNA-146b-5p in human retinal pigment epithelial cells by interleukin-1 β , tumor necrosis factor- α , and interferon- γ . <i>Molecular Vision</i> , 2013, 19, 737-50.	1.1	73
32	The Mechanism of Fenretinide (4-HPR) Inhibition of β -carotene Monooxygenase 1. New Suspect for the Visual Side Effects of Fenretinide. <i>Advances in Experimental Medicine and Biology</i> , 2012, 723, 167-174.	1.6	9
33	Aromatic Residues in the Substrate Cleft of RPE65 Protein Govern Retinol Isomerization and Modulate Its Progression. <i>Journal of Biological Chemistry</i> , 2012, 287, 30552-30559.	3.4	18
34	Subretinal Delivery and Electroporation in Pigmented and Nonpigmented Adult Mouse Eyes. <i>Methods in Molecular Biology</i> , 2012, 884, 53-69.	0.9	18
35	In Vivo Assessment of Rodent Retinal Structure Using Spectral Domain Optical Coherence Tomography. <i>Advances in Experimental Medicine and Biology</i> , 2012, 723, 489-494.	1.6	7
36	Origin and Evolution of Retinoid Isomerization Machinery in Vertebrate Visual Cycle: Hint from Jawless Vertebrates. <i>PLoS ONE</i> , 2012, 7, e49975.	2.5	37

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37	Alteration of sphingolipid metabolism during 4-hydroxyphenyl retinamide induced cell death in the ARPE-19 human retinal pigment epithelial cell line. <i>FASEB Journal</i> , 2012, 26, 792.1.	0.5	0
38	Aromatic Lipophilic Spin Traps Effectively Inhibit RPE65 Isomerohydrolase Activity. <i>Biochemistry</i> , 2011, 50, 6739-6741.	2.5	19
39	Decreased expression of insulin-like growth factor binding protein-5 during 4-hydroxyphenyl retinamide-induced neuronal differentiation of ARPE-19 human retinal pigment epithelial cells: Regulation by CCAAT/enhancer-binding protein. <i>Journal of Cellular Physiology</i> , 2010, 224, 827-836.	4.1	10
40	RPE65, Visual Cycle Retinol Isomerase, Is Not Inherently 11-cis-specific. <i>Journal of Biological Chemistry</i> , 2010, 285, 1919-1927.	3.4	58
41	Inflammatory cytokines regulate microRNA-155 expression in human retinal pigment epithelial cells by activating JAK/STAT pathway. <i>Biochemical and Biophysical Research Communications</i> , 2010, 402, 390-395.	2.1	106
42	Gene Therapy for Leber's Congenital Amaurosis is Safe and Effective Through 1.5 Years After Vector Administration. <i>Molecular Therapy</i> , 2010, 18, 643-650.	8.2	503
43	MicroRNA expression in human retinal pigment epithelial (ARPE-19) cells: increased expression of microRNA-9 by N-(4-hydroxyphenyl)retinamide. <i>Molecular Vision</i> , 2010, 16, 1475-86.	1.1	52
44	Spectral Domain Optical Coherence Tomography in Mouse Models of Retinal Degeneration. , 2009, 50, 5888.		193
45	Biochemical evidence for the tyrosine involvement in cationic intermediate stabilization in mouse β -carotene 15, 15'-monooxygenase. <i>BMC Biochemistry</i> , 2009, 10, 31.	4.4	20
46	Focus on Molecules: RPE65, the visual cycle retinol isomerase. <i>Experimental Eye Research</i> , 2009, 88, 846-847.	2.6	29
47	Age-dependent effects of RPE65 gene therapy for Leber's congenital amaurosis: a phase 1 dose-escalation trial. <i>Lancet, The</i> , 2009, 374, 1597-1605.	13.7	774
48	Mitogen-activated protein kinase pathway mediates 4-hydroxyphenyl retinamide-induced neuronal differentiation in the ARPE-19 human retinal pigment epithelial cell line. <i>Journal of Neurochemistry</i> , 2008, 106, 591-602.	3.9	14
49	Safety and Efficacy of Gene Transfer for Leber's Congenital Amaurosis. <i>New England Journal of Medicine</i> , 2008, 358, 2240-2248.	27.0	1,941
50	A Comprehensive Clinical and Biochemical Functional Study of a Novel RPE65 Hypomorphic Mutation. , 2008, 49, 5235.		73
51	Effect of Leu/Met variation at residue 450 on isomerase activity and protein expression of RPE65 and its modulation by variation at other residues. <i>Molecular Vision</i> , 2007, 13, 1813-21.	1.1	16
52	The level of thymic expression of RPE65 inversely correlates with its capacity to induce experimental autoimmune uveitis (EAU) in different rodent strains. <i>Experimental Eye Research</i> , 2006, 83, 897-902.	2.6	6
53	9-cis Retinal Increased in Retina of RPE65 Knockout Mice with Decrease in Coat Pigmentation. <i>Photochemistry and Photobiology</i> , 2006, 82, 1461-1467.	2.5	6
54	RPE65 Is an Iron(II)-dependent Isomerohydrolase in the Retinoid Visual Cycle. <i>Journal of Biological Chemistry</i> , 2006, 281, 2835-2840.	3.4	111

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55	Identification of a KRAB-Zinc Finger Protein Binding to the Rpe65 Gene Promoter. <i>Current Eye Research</i> , 2006, 31, 457-466.	1.5	3
56	Assessing the Efficacy of Gene Therapy in Rpe65 ^{-/-} Mice Using Photoentrainment of Circadian Rhythm. , 2006, 572, 239-245.		1
57	9-cis Retinal Increased in Retina of RPE65 Knockout Mice with Decrease in Coat Pigmentation. <i>Photochemistry and Photobiology</i> , 2006, 82, 1461.	2.5	9
58	Cone Opsin Mislocalization in Rpe65 ^{+/+} Mice: A Defect That Can Be Corrected by 11-cis Retinal. , 2005, 46, 3876.		128
59	Key Role of Conserved Histidines in Recombinant Mouse Î ² -Carotene 15,15- α -Monooxygenase-1 Activity. <i>Journal of Biological Chemistry</i> , 2005, 280, 29217-29223.	3.4	78
60	Mutation of key residues of RPE65 abolishes its enzymatic role as isomerohydrolase in the visual cycle. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 13658-13663.	7.1	374
61	Mole Quantity of RPE65 and Its Productivity in the Generation of 11-cis-Retinal from Retinyl Esters in the Living Mouse Eye. <i>Biochemistry</i> , 2005, 44, 9880-9888.	2.5	53
62	Impairment of the Transient Pupillary Light Reflex in Rpe65 ^{-/-} Mice and Humans with Leber Congenital Amaurosis. , 2004, 45, 1259.		92
63	Recombinant adeno-associated virus type 2-mediated gene delivery into the knockout mouse eye results in limited rescue. <i>Genetic Vaccines and Therapy</i> , 2004, 2, 3.	1.5	88
64	In Utero Gene Therapy Rescues Vision in a Murine Model of Congenital Blindness. <i>Molecular Therapy</i> , 2004, 9, 182-188.	8.2	191
65	Spontaneous activity of opsin apoprotein is a cause of Leber congenital amaurosis. <i>Nature Genetics</i> , 2003, 35, 158-164.	21.4	163
66	Retinyl Esters Are the Substrate for Isomerohydrolase. <i>Biochemistry</i> , 2003, 42, 2229-2238.	2.5	113
67	Entrainment of circadian rhythm to a photoperiod reversal shows retinal dystrophy in RPE65 ^{-/-} mice. <i>Physiology and Behavior</i> , 2003, 79, 701-711.	2.1	7
68	Acute Radiolabeling of Retinoids in Eye Tissues of Normal and Rpe65-Deficient Mice. , 2003, 44, 1435.		30
69	Identification of beta-carotene 15,15- α -monooxygenase as a peroxisome proliferator-activated receptor target gene. <i>FASEB Journal</i> , 2003, 17, 1304-1306.	0.5	97
70	In Vivo Gene Therapy in Young and Adult RPE65 ^{-/-} Dogs Produces Long-Term Visual Improvement. , 2003, 94, 31-37.		109
71	Expression of Î ² -Carotene 15,15- α Monooxygenase in Retina and RPE-Choroid. , 2003, 44, 44.		34
72	Correlation of Regenerable Opsin with Rod ERG Signal in Rpe65 ^{-/-} Mice during Development and Aging. , 2003, 44, 310.		62

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73	Functional and Structural Recovery of the Retina after Gene Therapy in the RPE65 Null Mutation Dog. , 2003, 44, 1663.		235
74	Functional and Structural Evaluation after AAV.RPE65 Gene Transfer in the Canine Model of Leber's Congenital Amaurosis. <i>Advances in Experimental Medicine and Biology</i> , 2003, 533, 423-430.	1.6	40
75	Assessment of rAAV-Mediated Gene Therapy in the Rpe65 ^{-/-} Mouse. <i>Advances in Experimental Medicine and Biology</i> , 2003, 533, 431-438.	1.6	8
76	11-cis-Retinal Reduces Constitutive Opsin Phosphorylation and Improves Quantum Catch in Retinoid-deficient Mouse Rod Photoreceptors. <i>Journal of Biological Chemistry</i> , 2002, 277, 40491-40498.	3.4	75
77	Expression and promoter activation of the Rpe65 gene in retinal pigment epithelium cell lines. <i>Current Eye Research</i> , 2002, 24, 368-375.	1.5	11
78	RPE65 is highly uveitogenic in rats. <i>Investigative Ophthalmology and Visual Science</i> , 2002, 43, 2258-63.	3.3	24
79	Generation of Knockout Animal Models. , 2001, 47, 215-236.		0
80	Intrachoroidal Neovascularization in Transgenic Mice Overexpressing Vascular Endothelial Growth Factor in the Retinal Pigment Epithelium. <i>American Journal of Pathology</i> , 2001, 158, 1161-1172.	3.8	206
81	New views on RPE65 deficiency: the rod system is the source of vision in a mouse model of Leber congenital amaurosis. <i>Nature Genetics</i> , 2001, 29, 70-74.	21.4	222
82	Identification, Expression, and Substrate Specificity of a Mammalian β -Carotene 15,15-Dioxygenase. <i>Journal of Biological Chemistry</i> , 2001, 276, 6560-6565.	3.4	257
83	Transgenic expression of an immunologically privileged retinal antigen extraocularly enhances self tolerance and abrogates susceptibility to autoimmune uveitis. <i>European Journal of Immunology</i> , 2000, 30, 272-278.	2.9	42
84	Protection of Rpe65-deficient mice identifies rhodopsin as a mediator of light-induced retinal degeneration. <i>Nature Genetics</i> , 2000, 25, 63-66.	21.4	253
85	A QTL on distal Chromosome 3 that influences the severity of light-induced damage to mouse photoreceptors. <i>Mammalian Genome</i> , 2000, 11, 422-427.	2.2	109
86	The Upstream Region of the Rpe65 Gene Confers Retinal Pigment Epithelium-specific Expression in Vivo and in Vitro and Contains Critical Octamer and E-box Binding Sites. <i>Journal of Biological Chemistry</i> , 2000, 275, 31274-31282.	3.4	45
87	[46] Genetic analysis of RPE65: From human disease to mouse model. <i>Methods in Enzymology</i> , 2000, 316, 705-724.	1.0	57
88	Identification of RPE65 in transformed kidney cells. <i>FEBS Letters</i> , 1999, 452, 199-204.	2.8	24
89	Rpe65 is necessary for production of 11-cis-vitamin A in the retinal visual cycle. <i>Nature Genetics</i> , 1998, 20, 344-351.	21.4	917
90	Cloning and localization of RPE65 mRNA in salamander cone photoreceptor cells. <i>Biochimica Et Biophysica Acta Gene Regulatory Mechanisms</i> , 1998, 1443, 255-261.	2.4	34

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91	Role of the 3' Untranslated Region of RPE65 mRNA in the Translational Regulation of the RPE65 Gene: Identification of a Specific Translation Inhibitory Element. <i>Archives of Biochemistry and Biophysics</i> , 1998, 357, 37-44.	3.0	25
92	RPE65, the Major Retinal Pigment Epithelium Microsomal Membrane Protein, Associates with Phospholipid Liposomes. <i>Archives of Biochemistry and Biophysics</i> , 1997, 346, 21-27.	3.0	46
93	Mutations in RPE65 cause Leber's congenital amaurosis. <i>Nature Genetics</i> , 1997, 17, 139-141.	21.4	572
94	The Gene for the Retinal Pigment Epithelium-Specific Protein RPE65 Is Localized to Human 1p31 and Mouse 3. <i>Genomics</i> , 1994, 20, 509-512.	2.9	62
95	A developmentally regulated microsomal protein specific for the pigment epithelium of the vertebrate retina. <i>Journal of Neuroscience Research</i> , 1993, 34, 414-425.	2.9	111
96	Immunological features of synthetic peptides derived from the retinal protein IRBP: Differences between immunodominant and non-dominant peptides. <i>Current Eye Research</i> , 1990, 9, 95-98.	1.5	6
97	Repeated determinants within the retinal interphotoreceptor retinoid-binding protein (IRBP): Immunological properties of the repeats of an immunodominant determinant. <i>Cellular Immunology</i> , 1990, 126, 331-342.	3.0	18
98	Uveitis and immune responses in primates immunized with IRBP-derived synthetic peptides. <i>Current Eye Research</i> , 1990, 9, 193-199.	1.5	16
99	Localization of the gene for interphotoreceptor retinoid-binding protein to mouse chromosome 14 near Np-1. <i>Genomics</i> , 1990, 8, 727-731.	2.9	20
100	Rat T-cell lines specific to a nonimmunodominant determinant of a retinal protein (IRBP) produce uveoretinitis and pinealitis. <i>Cellular Immunology</i> , 1989, 122, 251-261.	3.0	31
101	Synthesis of an immunopathogenic fusion protein derived from a bovine interphotoreceptor retinoid-binding protein cDNA clone. <i>Gene</i> , 1989, 80, 109-118.	2.2	11
102	Cloning of cDNAs encoding human interphotoreceptor retinoid-binding protein (IRBP) and comparison with bovine IRBP sequences. <i>Gene</i> , 1989, 80, 99-108.	2.2	30
103	mRNA for interphotoreceptor retinoid-binding protein (IRBP): Distribution and size diversity in vertebrate species. <i>Experimental Eye Research</i> , 1989, 49, 171-180.	2.6	20
104	Immune responses to peptides derived from the retinal protein IRBP: Immunopathogenic determinants are not necessarily immunodominant. <i>Clinical Immunology and Immunopathology</i> , 1989, 53, 212-224.	2.0	15
105	Cyanogen bromide fragments of bovine interphotoreceptor retinoid-binding protein induce experimental autoimmune uveoretinitis in Lewis rats. <i>Current Eye Research</i> , 1988, 7, 375-385.	1.5	12
106	Synthetic peptides derived from IRBP induce EAU and EAP in Lewis rats. <i>Current Eye Research</i> , 1988, 7, 727-735.	1.5	37
107	Lymphocyte responses to retinal-specific antigens in uveitis patients and healthy subjects. <i>Current Eye Research</i> , 1988, 7, 393-402.	1.5	44
108	IRBP from bovine retina is poorly uveitogenic in guinea pigs and is identical to A-antigen. <i>Current Eye Research</i> , 1987, 6, 409-417.	1.5	7

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109	Immunohistochemical Analysis of Experimental Autoimmune Uveoretinitis (Eau) Induced by Interphotoreceptor Retinoid-Binding Protein (Irbp) in the Rat. Immunological Investigations, 1987, 16, 63-74.	2.0	25
110	Experimental autoimmune uveoretinitis (EAU) induced by retinal interphotoreceptor retinoid-binding protein (IRBP): Differences between EAU induced by IRBP and by S-antigen. Clinical Immunology and Immunopathology, 1987, 43, 256-264.	2.0	59
111	Uveitis induced in primates by IRBP: Humoral and cellular immune responses. Experimental Eye Research, 1987, 45, 695-702.	2.6	22
112	cDNA clones encoding bovine interphotoreceptor retinoid binding protein. Biochemical and Biophysical Research Communications, 1985, 131, 1086-1093.	2.1	23
113	Localization of corneal superoxide dismutase by biochemical and histochemical techniques. Experimental Eye Research, 1984, 38, 369-378.	2.6	39