

Muna I Naash

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/5522810/publications.pdf>

Version: 2024-02-01

116
papers

4,455
citations

94433

37
h-index

144013

57
g-index

116
all docs

116
docs citations

116
times ranked

3391
citing authors

#	ARTICLE	IF	CITATIONS
1	<i>Prph2</i> disease mutations lead to structural and functional defects in the RPE. <i>FASEB Journal</i> , 2022, 36, e22284.	0.5	3
2	Riboflavin deficiency leads to irreversible cellular changes in the RPE and disrupts retinal function through alterations in cellular metabolic homeostasis. <i>Redox Biology</i> , 2022, 54, 102375.	9.0	4
3	Absence of retbindin blocks glycolytic flux, disrupts metabolic homeostasis, and leads to photoreceptor degeneration. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	10
4	Gene Therapy to the Retina and the Cochlea. <i>Frontiers in Neuroscience</i> , 2021, 15, 652215.	2.8	13
5	Photoreceptor Disc Enclosure Is Tightly Controlled by Peripherin-2 Oligomerization. <i>Journal of Neuroscience</i> , 2021, 41, 3588-3596.	3.6	14
6	Co-Injection of Sulfotyrosine Facilitates Retinal Uptake of Hyaluronic Acid Nanospheres Following Intravitreal Injection. <i>Pharmaceutics</i> , 2021, 13, 1510.	4.5	2
7	Modulation of SOD3 Levels Is Detrimental to Retinal Homeostasis. <i>Antioxidants</i> , 2021, 10, 1595.	5.1	4
8	Flavins Act as a Critical Liaison Between Metabolic Homeostasis and Oxidative Stress in the Retina. <i>Frontiers in Cell and Developmental Biology</i> , 2020, 8, 861.	3.7	14
9	ROM1 contributes to phenotypic heterogeneity in PRPH2-associated retinal disease. <i>Human Molecular Genetics</i> , 2020, 29, 2708-2722.	2.9	7
10	Syntaxin 3 is essential for photoreceptor outer segment protein trafficking and survival. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 20615-20624.	7.1	23
11	Pluripotent Stem Cells for the Treatment of Retinal Degeneration: Current Strategies and Future Directions. <i>Frontiers in Cell and Developmental Biology</i> , 2020, 8, 743.	3.7	12
12	Retbindin: A riboflavin Binding Protein, Is Critical for Photoreceptor Homeostasis and Survival in Models of Retinal Degeneration. <i>International Journal of Molecular Sciences</i> , 2020, 21, 8083.	4.1	4
13	Photoreceptor Disc Enclosure Occurs in the Absence of Normal Peripherin-2 Oligomerization. <i>Frontiers in Cellular Neuroscience</i> , 2020, 14, 92.	3.7	12
14	Elimination of a Retinal Riboflavin Binding Protein Exacerbates Degeneration in a Model of Cone-Rod Dystrophy. , 2020, 61, 17.		7
15	The Symbiotic Relationship between the Neural Retina and Retinal Pigment Epithelium Is Supported by Utilizing Differential Metabolic Pathways. <i>IScience</i> , 2020, 23, 101004.	4.1	27
16	The Intersection of Serine Metabolism and Cellular Dysfunction in Retinal Degeneration. <i>Cells</i> , 2020, 9, 674.	4.1	19
17	Novel molecular mechanisms for Prph2-associated pattern dystrophy. <i>FASEB Journal</i> , 2020, 34, 1211-1230.	0.5	19
18	The Interplay between Peripherin 2 Complex Formation and Degenerative Retinal Diseases. <i>Cells</i> , 2020, 9, 784.	4.1	13

#	ARTICLE	IF	CITATIONS
19	Prph2 initiates outer segment morphogenesis but maturation requires Prph2/Rom1 oligomerization. <i>Human Molecular Genetics</i> , 2019, 28, 459-475.	2.9	26
20	Oxidative Stress, Diabetic Retinopathy, and Superoxide Dismutase 3. <i>Advances in Experimental Medicine and Biology</i> , 2019, 1185, 335-339.	1.6	9
21	The Role of the Prph2 C-Terminus in Outer Segment Morphogenesis. <i>Advances in Experimental Medicine and Biology</i> , 2019, 1185, 495-499.	1.6	3
22	Flavin Imbalance as an Important Player in Diabetic Retinopathy. <i>Advances in Experimental Medicine and Biology</i> , 2019, 1185, 575-579.	1.6	3
23	Phenotypic characterization of P23H and S334ter rhodopsin transgenic rat models of inherited retinal degeneration. <i>Experimental Eye Research</i> , 2018, 167, 56-90.	2.6	72
24	Optimizing Non-viral Gene Therapy Vectors for Delivery to Photoreceptors and Retinal Pigment Epithelial Cells. <i>Advances in Experimental Medicine and Biology</i> , 2018, 1074, 109-115.	1.6	7
25	Role of Fibulins 2 and 5 in Retinal Development and Maintenance. <i>Advances in Experimental Medicine and Biology</i> , 2018, 1074, 275-280.	1.6	1
26	Retbindin Is Capable of Protecting Photoreceptors from Flavin-Sensitized Light-Mediated Cell Death In Vitro. <i>Advances in Experimental Medicine and Biology</i> , 2018, 1074, 485-490.	1.6	4
27	Flavin homeostasis in the mouse retina during aging and degeneration. <i>Journal of Nutritional Biochemistry</i> , 2018, 62, 123-133.	4.2	12
28	Differential composition of DHA and very-long-chain PUFAs in rod and cone photoreceptors. <i>Journal of Lipid Research</i> , 2018, 59, 1586-1596.	4.2	56
29	DNA nanoparticles are safe and nontoxic in non-human primate eyes. <i>International Journal of Nanomedicine</i> , 2018, Volume 13, 1361-1379.	6.7	26
30	Oligomerization of Prph2 and Rom1 is essential for photoreceptor outer segment formation. <i>Human Molecular Genetics</i> , 2018, 27, 3507-3518.	2.9	44
31	Rom1 converts Y141C-Prph2-associated pattern dystrophy to retinitis pigmentosa. <i>Human Molecular Genetics</i> , 2017, 26, ddw408.	2.9	26
32	Ablation of the riboflavin-binding protein retbindin reduces flavin levels and leads to progressive and dose-dependent degeneration of rods and cones. <i>Journal of Biological Chemistry</i> , 2017, 292, 21023-21034.	3.4	27
33	Role of RDS and Rhodopsin in Cngb1-Related Retinal Degeneration. , 2016, 57, 787.		10
34	The K153Del PRPH2 mutation differentially impacts photoreceptor structure and function. <i>Human Molecular Genetics</i> , 2016, 25, 3500-3514.	2.9	22
35	Nanoparticle-mediated miR200-b delivery for the treatment of diabetic retinopathy. <i>Journal of Controlled Release</i> , 2016, 236, 31-37.	9.9	39
36	PRPH2/RDS and ROM-1: Historical context, current views and future considerations. <i>Progress in Retinal and Eye Research</i> , 2016, 52, 47-63.	15.5	92

#	ARTICLE	IF	CITATIONS
37	The Potential Role of Flavins and Retbindin in Retinal Function and Homeostasis. <i>Advances in Experimental Medicine and Biology</i> , 2016, 854, 643-648.	1.6	2
38	Therapeutic Approach of Nanotechnology for Oxidative Stress Induced Ocular Neurodegenerative Diseases. <i>Advances in Experimental Medicine and Biology</i> , 2016, 854, 463-469.	1.6	17
39	RDS Functional Domains and Dysfunction in Disease. <i>Advances in Experimental Medicine and Biology</i> , 2016, 854, 217-222.	1.6	4
40	Characterization of Ribozymes Targeting a Congenital Night Blindness Mutation in Rhodopsin Mutation. <i>Advances in Experimental Medicine and Biology</i> , 2016, 854, 509-515.	1.6	1
41	Retinal Degeneration Slow (RDS) Glycosylation Plays a Role in Cone Function and in the Regulation of RDS-ROM-1 Protein Complex Formation. <i>Journal of Biological Chemistry</i> , 2015, 290, 27901-27913.	3.4	21
42	SNAREs Interact with Retinal Degeneration Slow and Rod Outer Segment Membrane Protein-1 during Conventional and Unconventional Outer Segment Targeting. <i>PLoS ONE</i> , 2015, 10, e0138508.	2.5	29
43	Varying the GARP2-to-RDS Ratio Leads to Defects in Rim Formation and Rod and Cone Function. , 2015, 56, 8187.		9
44	Retbindin Is an Extracellular Riboflavin-binding Protein Found at the Photoreceptor/Retinal Pigment Epithelium Interface. <i>Journal of Biological Chemistry</i> , 2015, 290, 5041-5052.	3.4	23
45	Glycosylation of rhodopsin is necessary for its stability and incorporation into photoreceptor outer segment discs. <i>Human Molecular Genetics</i> , 2015, 24, 2709-2723.	2.9	27
46	Nanoparticle-based technologies for retinal gene therapy. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2015, 95, 353-367.	4.3	76
47	Impaired Association of Retinal Degeneration-3 with Guanylate Cyclase-1 and Guanylate Cyclase-activating Protein-1 Leads to Leber Congenital Amaurosis-1. <i>Journal of Biological Chemistry</i> , 2015, 290, 3488-3499.	3.4	34
48	Genomic DNA nanoparticles rescue rhodopsin-associated retinitis pigmentosa phenotype. <i>FASEB Journal</i> , 2015, 29, 2535-2544.	0.5	44
49	Non-viral therapeutic approaches to ocular diseases: An overview and future directions. <i>Journal of Controlled Release</i> , 2015, 219, 471-487.	9.9	40
50	Genotypic and Phenotypic Characterization of P23H Line 1 Rat Model. <i>PLoS ONE</i> , 2015, 10, e0127319.	2.5	51
51	Initiation of Rod Outer Segment Disc Formation Requires RDS. <i>PLoS ONE</i> , 2014, 9, e98939.	2.5	32
52	Synthesis and Characterization of Glycol Chitosan DNA Nanoparticles for Retinal Gene Delivery. <i>ChemMedChem</i> , 2014, 9, 189-196.	3.2	44
53	Gene Therapy for PRPH2-Associated Ocular Disease: Challenges and Prospects. <i>Cold Spring Harbor Perspectives in Medicine</i> , 2014, 4, a017376-a017376.	6.2	37
54	Insights into the mechanisms of macular degeneration associated with the R172W mutation in RDS. <i>Human Molecular Genetics</i> , 2014, 23, 3102-3114.	2.9	42

#	ARTICLE	IF	CITATIONS
55	The Y141C knockin mutation in RDS leads to complex phenotypes in the mouse. <i>Human Molecular Genetics</i> , 2014, 23, 6260-6274.	2.9	40
56	Fibulin 2, a Tyrosine O-Sulfated Protein, Is Up-regulated Following Retinal Detachment. <i>Journal of Biological Chemistry</i> , 2014, 289, 13419-13433.	3.4	10
57	Rim formation is not a prerequisite for distribution of cone photoreceptor outer segment proteins. <i>FASEB Journal</i> , 2014, 28, 3468-3479.	0.5	16
58	Yttrium oxide nanoparticles prevent photoreceptor death in a light-damage model of retinal degeneration. <i>Free Radical Biology and Medicine</i> , 2014, 75, 140-148.	2.9	47
59	A review of therapeutic prospects of non-viral gene therapy in the retinal pigment epithelium. <i>Biomaterials</i> , 2013, 34, 7158-7167.	11.4	57
60	Persistence of non-viral vector mediated RPE65 expression: Case for viability as a gene transfer therapy for RPE-based diseases. <i>Journal of Controlled Release</i> , 2013, 172, 745-752.	9.9	39
61	Structural characterization of the second intradiscal loop of the photoreceptor tetraspanin <scp>RDS</scp>. <i>FEBS Journal</i> , 2013, 280, 127-138.	4.7	6
62	S/MAR-containing DNA nanoparticles promote persistent RPE gene expression and improvement in RPE65-associated LCA. <i>Human Molecular Genetics</i> , 2013, 22, 1632-1642.	2.9	66
63	Overexpression of Retinal Degeneration Slow (RDS) Protein Adversely Affects Rods in the rd7 Model of Enhanced S-Cone Syndrome. <i>PLoS ONE</i> , 2013, 8, e63321.	2.5	2
64	Structural and functional relationships between photoreceptor tetraspanins and other superfamily members. <i>Cellular and Molecular Life Sciences</i> , 2012, 69, 1035-1047.	5.4	26
65	Overexpression of ROM-1 in the Cone-Dominant Retina. <i>Advances in Experimental Medicine and Biology</i> , 2012, 723, 633-639.	1.6	6
66	Mislocalization of Oligomerization-Incompetent RDS is Associated with Mislocalization of Cone Opsins and Cone Transducin. <i>Advances in Experimental Medicine and Biology</i> , 2012, 723, 657-662.	1.6	3
67	DNA nanoparticle-mediated ABCA4 delivery rescues Stargardt dystrophy in mice. <i>Journal of Clinical Investigation</i> , 2012, 122, 3221-3226.	8.2	130
68	Defects in the Outer Limiting Membrane Are Associated with Rosette Development in the <i>Nrl</i> ^{-/-} Retina. <i>PLoS ONE</i> , 2012, 7, e32484.	2.5	43
69	Differential Developmental Deficits in Retinal Function in the Absence of either Protein Tyrosine Sulfotransferase-1 or -2. <i>PLoS ONE</i> , 2012, 7, e39702.	2.5	10
70	Comparative Analysis of DNA Nanoparticles and AAVs for Ocular Gene Delivery. <i>PLoS ONE</i> , 2012, 7, e52189.	2.5	67
71	Nanoparticle-mediated gene transfer specific to retinal pigment epithelial cells. <i>Biomaterials</i> , 2011, 32, 9483-9493.	11.4	41
72	Gene delivery to mitotic and postmitotic photoreceptors <i>Via</i> compacted DNA nanoparticles results in improved phenotype in a mouse model of retinitis pigmentosa. <i>FASEB Journal</i> , 2010, 24, 1178-1191.	0.5	108

#	ARTICLE	IF	CITATIONS
73	Differences in RDS trafficking, assembly and function in cones versus rods: insights from studies of C150S-RDS. <i>Human Molecular Genetics</i> , 2010, 19, 4799-4812.	2.9	46
74	A 350Åbp region of the proximal promoter of Rds drives cell-type specific gene expression. <i>Experimental Eye Research</i> , 2010, 91, 186-194.	2.6	7
75	A Partial Structural and Functional Rescue of a Retinitis Pigmentosa Model with Compacted DNA Nanoparticles. <i>PLoS ONE</i> , 2009, 4, e5290.	2.5	93
76	RPE65: Role in the Visual Cycle, Human Retinal Disease, and Gene Therapy. <i>Ophthalmic Genetics</i> , 2009, 30, 57-62.	1.2	112
77	Differential requirements for retinal degeneration slow intermolecular disulfide-linked oligomerization in rods versus cones. <i>Human Molecular Genetics</i> , 2009, 18, 797-808.	2.9	59
78	Focus on molecules: RDS. <i>Experimental Eye Research</i> , 2009, 89, 278-279.	2.6	8
79	Ocular Delivery of Compacted DNA-Nanoparticles Does Not Elicit Toxicity in the Mouse Retina. <i>PLoS ONE</i> , 2009, 4, e7410.	2.5	66
80	Differential distribution of proteins and lipids in detergent-resistant and detergent-soluble domains in rod outer segment plasma membranes and disks. <i>Journal of Neurochemistry</i> , 2008, 104, 336-352.	3.9	32
81	Nanoparticle applications in ocular gene therapy. <i>Vision Research</i> , 2008, 48, 319-324.	1.4	93
82	Outer Segment Oligomerization of Rds: Evidence from Mouse Models and Subcellular Fractionation. <i>Biochemistry</i> , 2008, 47, 1144-1156.	2.5	46
83	Expression Profiling after Retinal Detachment and Reattachment: A Possible Role for Aquaporin-O. , 2008, 49, 511.		35
84	Genetic Supplementation of RDS Alleviates a Loss-of-function Phenotype in C214S Model of Retinitis Pigmentosa. <i>Advances in Experimental Medicine and Biology</i> , 2008, 613, 129-138.	1.6	18
85	Nonviral ocular gene therapy: assessment and future directions. <i>Current Opinion in Molecular Therapeutics</i> , 2008, 10, 456-63.	2.8	28
86	Retinal Stem Cells Transplanted into Models of Late Stages of Retinitis Pigmentosa Preferentially Adopt a Glial or a Retinal Ganglion Cell Fate. , 2007, 48, 446.		98
87	Late-Onset Cone Photoreceptor Degeneration Induced by R172W Mutation in Rds and Partial Rescue by Gene Supplementation. , 2007, 48, 5397.		23
88	Effect of Rds abundance on cone outer segment morphogenesis, photoreceptor gene expression, and outer limiting membrane integrity. <i>Journal of Comparative Neurology</i> , 2007, 504, 619-630.	1.6	32
89	Efficient Non-Viral Ocular Gene Transfer with Compacted DNA Nanoparticles. <i>PLoS ONE</i> , 2006, 1, e38.	2.5	182
90	Retention of function without normal disc morphogenesis occurs in cone but not rod photoreceptors. <i>Journal of Cell Biology</i> , 2006, 173, 59-68.	5.2	87

#	ARTICLE	IF	CITATIONS
91	The Role of Rds in Outer Segment Morphogenesis and Human Retinal Disease. <i>Ophthalmic Genetics</i> , 2006, 27, 117-122.	1.2	36
92	882. Non-Viral Ocular Gene Transfer for Hereditary Retinal Degeneration. <i>Molecular Therapy</i> , 2006, 13, S340.	8.2	3
93	Light/Dark Translocation of Alphotransducin in Mouse Photoreceptor Cells Expressing G90D Mutant Opsin. , 2006, 572, 125-131.		2
94	The Cys214â†’Ser mutation in peripherin/rds causes a loss-of-function phenotype in transgenic mice. <i>Biochemical Journal</i> , 2005, 388, 605-613.	3.7	74
95	Role of the Second Intradiscal Loop of Peripherin/rds in Homo and Hetero Associations. <i>Biochemistry</i> , 2005, 44, 4897-4904.	2.5	45
96	Expression of Cone-Photoreceptor-Specific Antigens in a Cell Line Derived from Retinal Tumors in Transgenic Mice. , 2004, 45, 764.		295
97	Absence of Functional and Structural Abnormalities Associated with Expression of EGFP in the Retina. , 2004, 45, 15.		15
98	The R172W mutation in peripherin/rds causes a cone-rod dystrophy in transgenic mice. <i>Human Molecular Genetics</i> , 2004, 13, 2075-2087.	2.9	87
99	Modulating Expression of Peripherin/rds in Transgenic Mice: Critical Levels and the Effect of Overexpression. , 2004, 45, 2514.		63
100	Constitutive Overexpression of Human Erythropoietin Protects the Mouse Retina against Induced But Not Inherited Retinal Degeneration. <i>Journal of Neuroscience</i> , 2004, 24, 5651-5658.	3.6	122
101	Retinal abnormalities associated with the G90D mutation in opsin. <i>Journal of Comparative Neurology</i> , 2004, 478, 149-163.	1.6	33
102	Molecular Characterization of the Skate Peripherin/rds Gene: Relationship to Its Orthologues and Paralogues. , 2003, 44, 2433.		18
103	P2Y2 Receptor Agonist INS37217 Enhances Functional Recovery after Detachment Caused by Subretinal Injection in Normal and rds Mice. , 2003, 44, 4505.		44
104	Mouse Models of Human Retinal Disease Caused by Expression of Mutant Rhodopsin. <i>Advances in Experimental Medicine and Biology</i> , 2003, 533, 173-179.	1.6	8
105	Peripherin/Rds in Skate Retina. <i>Advances in Experimental Medicine and Biology</i> , 2003, 533, 377-383.	1.6	5
106	Retinal Degeneration in the nervous Mutant Mouse. IV. Inner Retinal Changes. <i>Experimental Eye Research</i> , 2001, 72, 243-252.	2.6	12
107	Transgenic Bcl-2 Expressed in Photoreceptor Cells Confers Both Death-sparing and Death-inducing Effects. <i>Experimental Eye Research</i> , 2001, 73, 711-721.	2.6	17
108	Expression of a mutant opsin gene increases the susceptibility of the retina to light damage. <i>Visual Neuroscience</i> , 1997, 14, 55-62.	1.0	95

#	ARTICLE	IF	CITATIONS
109	The Effect of Peripherin/rds Haploinsufficiency on Rod and Cone Photoreceptors. Journal of Neuroscience, 1997, 17, 8118-8128.	3.6	111
110	Structural and developmental analysis of the mouse peripherin/rds gene. Somatic Cell and Molecular Genetics, 1997, 23, 165-183.	0.7	13
111	Polygenic Disease and Retinitis Pigmentosa: Albinism Exacerbates Photoreceptor Degeneration Induced by the Expression of a Mutant Opsin in Transgenic Mice. Journal of Neuroscience, 1996, 16, 7853-7858.	3.6	43
112	Properties of the mouse cone-mediated electroretinogram during light adaptation. Neuroscience Letters, 1993, 162, 9-11.	2.1	105
113	Photoreceptor physiology in the rat is governed by the light environment. Experimental Eye Research, 1989, 49, 205-215.	2.6	35
114	Glutathione-dependent enzymes in intact rod outer segments. Experimental Eye Research, 1989, 48, 309-318.	2.6	20
115	Effect of light history on retinal antioxidants and light damage susceptibility in the rat. Experimental Eye Research, 1987, 44, 779-788.	2.6	143
116	Characterization of glutathione peroxidase in frog retina. Current Eye Research, 1984, 3, 1299-1304.	1.5	10