Nicolas Cuenca

List of Publications by Year
in descending order

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Version: 2024-02-01

138 papers	5,409 citations	66234 42 h-index	110170 64 g-index
147 all docs	147 docs citations	147 times ranked	5255 citing authors

#	Article	IF	Citations
1	Cellular responses following retinal injuries and therapeutic approaches for neurodegenerative diseases. Progress in Retinal and Eye Research, 2014, 43, 17-75.	7.3	338
2	Functional and structural modifications during retinal degeneration in the rd10 mouse. Neuroscience, 2008, 155, 698-713.	1.1	179
3	Regressive and reactive changes in the connectivity patterns of rod and cone pathways of P23H transgenic rat retina. Neuroscience, 2004, 127, 301-317.	1.1	159
4	Early changes in synaptic connectivity following progressive photoreceptor degeneration in RCS rats. European Journal of Neuroscience, 2005, 22, 1057-1072.	1.2	138
5	The synaptic organization of the dopaminergic amacrine cell in the cat retina. Journal of Neurocytology, 1990, 19, 343-366.	1.6	115
6	Phosphorylated Î±-synuclein-immunoreactive retinal neuronal elements in Parkinson's disease subjects. Neuroscience Letters, 2014, 571, 34-38.	1.0	115
7	Phosphorylated Î±â€synuclein in the retina is a biomarker of Parkinson's disease pathology severity. Movement Disorders, 2018, 33, 1315-1324.	2.2	113
8	Cellular Characterization of OCT and Outer Retinal Bands Using Specific Immunohistochemistry Markers and Clinical Implications. Ophthalmology, 2018, 125, 407-422.	2.5	96
9	Choroidal Thickness and Volume in Healthy Young White Adults and the Relationships between them and Axial Length, Ammetropy and Sex. American Journal of Ophthalmology, 2014, 158, 574-583.e1.	1.7	94
10	The Ubiquitinâ€“Proteasome System in Retinal Health and Disease. Molecular Neurobiology, 2013, 47, 790-810.	1.9	87
11	OPTICAL COHERENCE TOMOGRAPHY IN RETINITIS PIGMENTOSA. Retina, 2012, 32, 1581-1591.	1.0	86
12	Astrocytes and MÃ¼ller Cell Alterations During Retinal Degeneration in a Transgenic Rat Model of Retinitis Pigmentosa. Frontiers in Cellular Neuroscience, 2015, 9, 484.	1.8	86
13	Abnormal activity of corneal cold thermoreceptors underlies the unpleasant sensations in dry eye disease. Pain, 2016, 157, 399-417.	2.0	86
14	Changes in the inner and outer retinal layers after acute increase of the intraocular pressure in adult albino Swiss mice. Experimental Eye Research, 2010, 91, 273-285.	1.2	84
15	Tauroursodeoxycholic Acid Prevents Retinal Degeneration in Transgenic P23H Rats. , 2011, 52, 4998.		81
16	Microglia activation in a model of retinal degeneration and TUDCA neuroprotective effects. Journal of Neuroinflammation, 2014, 11, 186.	3.1	81
17	Retinal ganglion cell numbers and delayed retinal ganglion cell death in the P23H rat retina. Experimental Eye Research, 2010, 91, 800-810.	1.2	79
18	Retinal Î±-synuclein deposits in Parkinsonâ€™s disease patients and animal models. Acta Neuropathologica, 2019, 137, 379-395.	3.9	79

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19	Interpretation of OCT and OCTA images from a histological approach: Clinical and experimental implications. Progress in Retinal and Eye Research, 2020, 77, 100828.	7.3	77
20	Metalâ€“Organic Frameworks as Drug Delivery Platforms for Ocular Therapeutics. ACS Applied Materials & Interfaces, 2019, 11, 1924-1931.	4.0	73
21	Postembedding immunocytochemistry for GABA and glycine reveals the synaptic relationships of the dopaminergic amacrine cell of the cat retina. Journal of Comparative Neurology, 1991, 310, 267-284.	0.9	71
22	Safranal, a Saffron Constituent, Attenuates Retinal Degeneration in P23H Rats. PLoS ONE, 2012, 7, e43074.	1.1	70
23	Loss of Melanopsin-Expressing Ganglion Cell Subtypes and Dendritic Degeneration in the Aging Human Retina. Frontiers in Aging Neuroscience, 2017, 9, 79.	1.7	68
24	A new look at calretinin-immunoreactive amacrine cell types in the monkey retina. Journal of Comparative Neurology, 2002, 453, 168-184.	0.9	64
25	Changes in the Photoreceptor Mosaic of P23H-1 Rats During Retinal Degeneration: Implications for Rod-Cone Dependent Survival. , 2013, 54, 5888.		61
26	Gradual morphogenesis of retinal neurons in the peripheral retinal margin of adult monkeys and humans. Journal of Comparative Neurology, 2008, 511, 557-580.	0.9	60
27	Endothelial nitric oxide synthase (eNOS) is localized to MÃ¼ller cells in all vertebrate retinas. Vision Research, 1999, 39, 2299-2303.	0.7	59
28	Localization of neurotransmitters and calcium binding proteins to neurons of salamander and mudpuppy retinas. Vision Research, 2001, 41, 1771-1783.	0.7	58
29	p75^{NTR} and Its Ligand ProNGF Activate Paracrine Mechanisms Etiological to the Vascular, Inflammatory, and Neurodegenerative Pathologies of Diabetic Retinopathy. Journal of Neuroscience, 2016, 36, 8826-8841.	1.7	58
30	Identification and Light-Dependent Translocation of a Cone-Specific Antigen, Cone Arrestin, Recognized by Monoclonal Antibody 7G6. , 2003, 44, 2858.		57
31	Alpha synuclein gene expression profile in the retina of vertebrates. Molecular Vision, 2007, 13, 949-61.	1.1	57
32	Degeneration of human photosensitive retinal ganglion cells may explain sleep and circadian rhythms disorders in Parkinsonâ€™s disease. Acta Neuropathologica Communications, 2018, 6, 90.	2.4	56
33	Morphological impairments in retinal neurons of the scotopic visual pathway in a monkey model of Parkinson's disease. Journal of Comparative Neurology, 2005, 493, 261-273.	0.9	55
34	Correlation between SD-OCT, immunocytochemistry and functional findings in an animal model of retinal degeneration. Frontiers in Neuroanatomy, 2014, 8, 151.	0.9	55
35	Systemic inflammation induced by lipopolysaccharide aggravates inherited retinal dystrophy. Cell Death and Disease, 2018, 9, 350.	2.7	55
36	Time course modifications in organotypic culture of human neuroretina. Experimental Eye Research, 2012, 104, 26-38.	1.2	54

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37	Preservation of outer retina and its synaptic connectivity following subretinal injections of human RPE cells in the Royal College of Surgeons rat. Experimental Eye Research, 2007, 85, 381-392.	1.2	53
38	Neuroprotective effects of the cannabinoid agonist HU210 on retinal degeneration. Experimental Eye Research, 2014, 120, 175-185.	1.2	52
39	Dopaminergic Retinal Cell Loss and Visual Dysfunction in Parkinson Disease. Annals of Neurology, 2020, 88, 893-906.	2.8	52
40	The neurons of the ground squirrel retina as revealed by immunostains for calcium binding proteins and neurotransmitters. Journal of Neurocytology, 2002, 31, 649-666.	1.6	51
41	Early Events in Retinal Degeneration Caused by Rhodopsin Mutation or Pigment Epithelium Malfunction: Differences and Similarities. Frontiers in Neuroanatomy, 2017, 11, 14.	0.9	51
42	Chapter 1 Cellular organization of the vertebrate retina. Progress in Brain Research, 2001, 131, 3-26.	0.9	49
43	Phagocytosis of Photoreceptor Outer Segments by Transplanted Human Neural Stem Cells as a Neuroprotective Mechanism in Retinal Degeneration. , 2013, 54, 6745.		49
44	Loss of Outer Retinal Neurons and Circuitry Alterations in the DBA/2J Mouse. , 2014, 55, 6059.		48
45	Rotenone induces degeneration of photoreceptors and impairs the dopaminergic system in the rat retina. Neurobiology of Disease, 2011, 44, 102-115.	2.1	47
46	Human iPSC derived disease model of MERTK-associated retinitis pigmentosa. Scientific Reports, 2015, 5, 12910.	1.6	47
47	Persistent inflammatory state after photoreceptor loss in an animal model of retinal degeneration. Scientific Reports, 2016, 6, 33356.	1.6	47
48	Retinal degeneration in two lines of transgenic S334ter rats. Experimental Eye Research, 2011, 92, 227-237.	1.2	45
49	Progesterone Attenuates Microglial-Driven Retinal Degeneration and Stimulates Protective Fractalkine-CX3CR1 Signaling. PLoS ONE, 2016, 11, e0165197.	1.1	44
50	Multimodal brain and retinal imaging of dopaminergic degeneration in Parkinson disease. Nature Reviews Neurology, 2022, 18, 203-220.	4.9	44
51	Expression in the mammalian retina of parkin and UCH-L1, two components of the ubiquitin-proteasome system. Brain Research, 2010, 1352, 70-82.	1.1	42
52	Whole-exome sequencing reveals ZNF408 as a new gene associated with autosomal recessive retinitis pigmentosa with vitreal alterations. Human Molecular Genetics, 2015, 24, 4037-4048.	1.4	41
53	Retinal Organoids derived from hiPSCs of an AIPL1-LCA Patient Maintain Cytoarchitecture despite Reduced levels of Mutant AIPL1. Scientific Reports, 2020, 10, 5426.	1.6	39
54	Controlled delivery of tauroursodeoxycholic acid from biodegradable microspheres slows retinal degeneration and vision loss in P23H rats. PLoS ONE, 2017, 12, e0177998.	1.1	39

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55	Inherited Photoreceptor Degeneration Causes the Death of Melanopsin-Positive Retinal Ganglion Cells and Increases Their Coexpression of Brn3a. , 2015, 56, 4592.		38
56	Development of morphological types and distribution patterns of amacrine cells immunoreactive to tyrosine hydroxylase in the cat retina. Visual Neuroscience, 1990, 4, 159-175.	0.5	37
57	Impairment of Intrinsically Photosensitive Retinal Ganglion Cells Associated With Late Stages of Retinal Degeneration. , 2013, 54, 4605.		36
58	Photosensitive Melanopsin-Containing Retinal Ganglion Cells in Health and Disease: Implications for Circadian Rhythms. International Journal of Molecular Sciences, 2019, 20, 3164.	1.8	36
59	Age-related functional and structural retinal modifications in the Igf1â˜'/â˜' null mouse. Neurobiology of Disease, 2012, 46, 476-485.	2.1	35
60	Natural Compounds from Saffron and Bear Bile Prevent Vision Loss and Retinal Degeneration. Molecules, 2015, 20, 13875-13893.	1.7	35
61	Substance P-immunoreactive neurons in the human retina. Journal of Comparative Neurology, 1995, 356, 491-504.	0.9	33
62	Proinsulin Slows Retinal Degeneration and Vision Loss in the P23H Rat Model of Retinitis Pigmentosa. Human Gene Therapy, 2012, 23, 1290-1300.	1.4	33
63	Membrane properties of an unusual intrinsically oscillating, wideâ€field teleost retinal amacrine cell. Journal of Physiology, 2002, 544, 831-847.	1.3	32
64	Circuitry and role of substance P-immunoreactive neurons in the primate retina. Journal of Comparative Neurology, 1998, 393, 439-456.	0.9	30
65	Circadian dysfunction in P23H rhodopsin transgenic rats: effects of exogenous melatonin. Journal of Pineal Research, 2011, 50, 183-191.	3.4	30
66	Immunohistochemical Evidence of Synaptic Retraction, Cytoarchitectural Remodeling, and Cell Death in the Inner Retina of the Rat Model of Oygen-Induced Retinopathy (OIR). , 2011, 52, 1693.		30
67	Alterations in Energy Metabolism, Neuroprotection and Visual Signal Transduction in the Retina of Parkinsonian, MPTP-Treated Monkeys. PLoS ONE, 2013, 8, e74439.	1.1	30
68	Neuroprotective Effect of Tauroursodeoxycholic Acid on N-Methyl-D-Aspartate-Induced Retinal Ganglion Cell Degeneration. PLoS ONE, 2015, 10, e0137826.	1.1	29
69	Morphological and neurochemical diversity of neuronal nitric oxide synthase-positive amacrine cells in the turtle retina. Cell and Tissue Research, 2000, 302, 11-19.	1.5	28
70	Circadian Dysfunction in a Rotenone-Induced Parkinsonian Rodent Model. Chronobiology International, 2012, 29, 147-156.	0.9	28
71	Colour Mathematical Morphology For Neural Image Analysis. Real Time Imaging, 2002, 8, 455-465.	1.6	27
72	A Novel Isoform of Acetylcholinesterase Exacerbates Photoreceptors Death after Photic Stress. , 2007, 48, 1290.		27

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73	Age-related changes in photosensitive melanopsin-expressing retinal ganglion cells correlate with circadian rhythm impairments in sighted and blind rats. Chronobiology International, 2016, 33, 374-391.	0.9	27
74	Morphology and distribution of neurons immunoreactive for substance P in the turtle retina. Journal of Comparative Neurology, 1989, 290, 391-411.	0.9	26
75	Choline acetyltransferase is found in terminals of horizontal cells that label with GABA, nitric oxide synthase and calcium binding proteins in the turtle retina11Published on the World Wide Web on 22 August 2000.. Brain Research, 2000, 878, 228-239.	1.1	26
76	Retinal Microglia Are Activated by Systemic Fungal Infection. , 2014, 55, 3578.		26
77	Evidence of alpha 7 nicotinic acetylcholine receptor expression in retinal pigment epithelial cells. Visual Neuroscience, 2010, 27, 139-147.	0.5	24
78	Long time remodeling during retinal degeneration evaluated by optical coherence tomography, immunocytochemistry and fundus autofluorescence. Experimental Eye Research, 2016, 150, 122-134.	1.2	24
79	Choline acetyltransferase is expressed by non-starburst amacrine cells in the ground squirrel retina. Brain Research, 2003, 964, 21-30.	1.1	23
80	Gradual Increase in Environmental Light Intensity Induces Oxidative Stress and Inflammation and Accelerates Retinal Neurodegeneration. , 2020, 61, 1.		23
81	Retinal Vascular Degeneration in the Transgenic P23H Rat Model of Retinitis Pigmentosa. Frontiers in Neuroanatomy, 2018, 12, 55.	0.9	22
82	CHANGES IN TOTAL AND INNER RETINAL THICKNESSES IN TYPE 1 DIABETES WITH NO RETINOPATHY AFTER 8 YEARS OF FOLLOW-UP. Retina, 2020, 40, 1379-1386.	1.0	22
83	A compiled BASIC program for analysis of spatial point patterns: application to retinal studies. Journal of Neuroscience Methods, 1993, 50, 1-15.	1.3	21
84	Optical Coherence Tomography Angiography in Diabetic Patients: A Systematic Review. Biomedicines, 2022, 10, 88.	1.4	21
85	Optimization of the synthesis procedure of microparticles containing gold for the selective oxidation of glycerol. Applied Catalysis A: General, 2014, 472, 11-20.	2.2	20
86	Intraretinal processing following photoreceptor rescue by non-retinal cells. Vision Research, 2009, 49, 2067-2077.	0.7	18
87	Melanopsin+RGCs Are fully Resistant to NMDA-Induced Excitotoxicity. International Journal of Molecular Sciences, 2019, 20, 3012.	1.8	18
88	New Nrf2-Inducer Compound ITH12674 Slows the Progression of Retinitis Pigmentosa in the Mouse Model rd10. Cellular Physiology and Biochemistry, 2018, 54, 142-159.	1.1	18
89	Short-term high-fat feeding exacerbates degeneration in retinitis pigmentosa by promoting retinal oxidative stress and inflammation. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	18
90	Distribution of immunoreactivity to protein kinase C in the turtle retina. Brain Research, 1990, 532, 278-287.	1.1	17

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91	A useful programme in BASIC for axonal morphometry with introduction of new cytoskeletal parameters. Journal of Neuroscience Methods, 1991, 39, 271-289.	1.3	17
92	Dendrites of rod dominant ON-bipolar cells are coupled by gap junctions in carp retina. Neuroscience Letters, 1993, 162, 34-38.	1.0	17
93	Retinitis pigmentosa is associated with shifts in the gut microbiome. Scientific Reports, 2021, 11, 6692.	1.6	16
94	Postnatal development of microtubules and neurofilaments in the rat optic nerve: A quantitative study. Journal of Comparative Neurology, 1987, 263, 613-617.	0.9	15
95	Chapter 2 Comparative anatomy of major retinal pathways in the eyes of nocturnal and diurnal mammals. Progress in Brain Research, 2001, 131, 27-52.	0.9	15
96	Deleterious Effect of NMDA Plus Kainate on the Inner Retinal Cells and Ganglion Cell Projection of the Mouse. International Journal of Molecular Sciences, 2020, 21, 1570.	1.8	15
97	Norgestrel, a Progesterone Analogue, Promotes Significant Long-Term Neuroprotection of Cone Photoreceptors in a Mouse Model of Retinal Disease. , 2019, 60, 3221.		14
98	Epigallocatechin Gallate Slows Retinal Degeneration, Reduces Oxidative Damage, and Modifies Circadian Rhythms in P23H Rats. Antioxidants, 2020, 9, 718.	2.2	14
99	Overexpression of Guanylate Cyclase Activating Protein 2 in Rod Photoreceptors In Vivo Leads to Morphological Changes at the Synaptic Ribbon. PLoS ONE, 2012, 7, e42994.	1.1	14
100	Inherited Retinal Dystrophies: Role of Oxidative Stress and Inflammation in Their Physiopathology and Therapeutic Implications. Antioxidants, 2022, 11, 1086.	2.2	14
101	Two types of mitochondria are evidenced by protein kinase C immunoreactivity in the MÃ¼ller cells of the carp retina. Neuroscience Letters, 1995, 183, 202-205.	1.0	13
102	Expression and cellular localization of the voltageâ€gated calcium channel Î±₂Î´₃ in the rodent retina. Journal of Comparative Neurology, 2015, 523, 1443-1460.	0.9	13
103	Identification of the Photoreceptor Transcriptional Co-Repressor SAMD11 as Novel Cause of Autosomal Recessive Retinitis Pigmentosa. Scientific Reports, 2016, 6, 35370.	1.6	13
104	Tracing the retina to analyze the integrity and phagocytic capacity of the retinal pigment epithelium. Scientific Reports, 2020, 10, 7273.	1.6	12
105	Pathologic confirmation of retinal ganglion cell loss in multiple system atrophy. Neurology, 2017, 88, 2233-2235.	1.5	11
106	The Absence of Toll-Like Receptor 4 Mildly Affects the Structure and Function in the Adult Mouse Retina. Frontiers in Cellular Neuroscience, 2019, 13, 59.	1.8	10
107	Role of GUCA1C in Primary Congenital Glaucoma and in the Retina: Functional Evaluation in Zebrafish. Genes, 2020, 11, 550.	1.0	10
108	Systemic epigallocatechin gallate protects against retinal degeneration and hepatic oxidative stress in the P23H-1 rat. Neural Regeneration Research, 2022, 17, 625.	1.6	10

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109	Developmental regulation of calcium-dependent feedback in Xenopus rods. Journal of General Physiology, 2004, 124, 569-585.	0.9	9
110	Mutant PRPF8 Causes Widespread Splicing Changes in Spliceosome Components in Retinitis Pigmentosa Patient iPSC-Derived RPE Cells. Frontiers in Neuroscience, 2021, 15, 636969.	1.4	9
111	Visual Disfunction due to the Selective Effect of Glutamate Agonists on Retinal Cells. International Journal of Molecular Sciences, 2021, 22, 6245.	1.8	9
112	Decrease in DHA and other fatty acids correlates with photoreceptor degeneration in retinitis pigmentosa. Experimental Eye Research, 2021, 209, 108667.	1.2	9
113	Axon types classified by morphometric and multivariate analysis in the rat optic nerve. Brain Research, 1992, 585, 431-434.	1.1	8
114	Formation and dissolution of spinules and changes in nematosome size require optic nerve integrity in black bass (Micropterus salmoides) retina. Brain Research, 1996, 707, 213-220.	1.1	8
115	Characterization of a new murine retinal cell line (MU-PH1) with glial, progenitor and photoreceptor characteristics. Experimental Eye Research, 2013, 110, 125-135.	1.2	8
116	Assessment of Visual and Chromatic Functions in a Rodent Model of Retinal Degeneration. , 2015, 56, 6275.		8
117	Immunosuppression, peripheral inflammation and invasive infection from endogenous gut microbiota activate retinal microglia in mouse models. Microbiology and Immunology, 2016, 60, 617-625.	0.7	7
118	Choroidal Changes of Long-Term Type 1 Diabetic Patients without Retinopathy. Diagnostics, 2020, 10, 235.	1.3	7
119	Phenotypic Differences in a PRPH2 Mutation in Members of the Same Family Assessed with OCT and OCTA. Diagnostics, 2021, 11, 777.	1.3	7
120	Current and future therapeutic strategies for the treatment of retinal neurodegenerative diseases. Neural Regeneration Research, 2022, 17, 103.	1.6	7
121	Combined drug triads for synergic neuroprotection in retinal degeneration. Biomedicine and Pharmacotherapy, 2022, 149, 112911.	2.5	7
122	Visual experience during postnatal development determines the size of optic nerve axons. NeuroReport, 1993, 5, 365.	0.6	6
123	Sodium Hyaluronate-Induced Ocular Hypertension in Rats Damages the Direction-Selective Circuit and Inner/Outer Retinal Plexiform Layers. , 2022, 63, 2.		6
124	Partial Rescue of Retinal Function in Chronically Hypoglycemic Mice. , 2012, 53, 915.		5
125	Effects of Daily Melatonin Supplementation on Visual Loss, Circadian Rhythms, and Hepatic Oxidative Damage in a Rodent Model of Retinitis Pigmentosa. Antioxidants, 2021, 10, 1853.	2.2	5
126	SIRCOVA-OFTARED Congress Abstracts, Valencia, June 6-8, 2013. Ophthalmic Research, 2013, 50, 27-53.	1.0	4

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127	Reply. Ophthalmology, 2018, 125, e48-e49.	2.5	4
128	Cannabinoid-mediated retinal rescue correlates with improved circadian parameters in retinal dystrophic rats. Experimental Eye Research, 2019, 180, 192-199.	1.2	4
129	Characterization of the Canine Retinal Vasculature With Optical Coherence Tomography Angiography: Comparisons With Histology and Fluorescein Angiography. Frontiers in Neuroanatomy, 2021, 15, 785249.	0.9	4
130	OPTICAL COHERENCE TOMOGRAPHY IN RETINITIS PIGMENTOSA. Retina, 2012, Publish Ahead of Print, .	1.0	2
131	Neuroprotective Effects of Tauroursodeoxicholic Acid Involves Vascular and Glial Changes in Retinitis Pigmentosa Model. Frontiers in Neuroanatomy, 2022, 16, 858073.	0.9	2
132	Reply. American Journal of Ophthalmology, 2015, 159, 818-819.	1.7	1
133	CHAPTER 1. The Cellular Course of Retinal Degenerative Conditions. RSC Drug Discovery Series, 2018, , 1-30.	0.2	1
134	Expression and cellular localization of the voltage-gated calcium channel Î±2Î´3in the rodent retina. Journal of Comparative Neurology, 2015, 523, Spc1-Spc1.	0.9	0
135	Fundus autofluorescence, OCT thickness evaluation, angiography and immunohistochemistry correlation in albino P23H rats. Acta Ophthalmologica, 2013, 91, 0-0.	0.6	0
136	Correlation between SD-OCT, immunocytochemistry and functional findings in an animal model of retinal degeneration. Acta Ophthalmologica, 2013, 91, 0-0.	0.6	0
137	Optical Coherence Tomography and Fundus Autofluorescence evaluation in an animal model of Retinal Degeneration. Acta Ophthalmologica, 2015, 93, n/a-n/a.	0.6	0
138	Prph2 mutant mice generated by CRISPR reproduces human central areolar choroidal dystrophy. Acta Ophthalmologica, 2022, 100, .	0.6	0