Rachael A Pearson

List of Publications by Year
in descending order

55 papers	5,451 citations	117625 34 h-index	189892 50 g-index
55 all docs	55 docs citations	55 times ranked	3676 citing authors

#	Article	IF	Citations
1	Restoration of visual function in advanced disease after transplantation of purified human pluripotent stem cell-derived cone photoreceptors. Cell Reports, 2021, 35, 109022.	6.4	65
2	RNAiâ€mediated suppression of vimentin or glial fibrillary acidic protein prevents the establishment of MÃ¼ller glial cell hypertrophy in progressive retinal degeneration. Glia, 2021, 69, 2272-2290.	4.9	17
3	Cover Image, Volume 69, Issue 9. Glia, 2021, 69, C1.	4.9	0
4	Repeated nuclear translocations underlie photoreceptor positioning and lamination of the outer nuclear layer in the mammalian retina. Cell Reports, 2021, 36, 109461.	6.4	9
5	Nanotubeâ€like processes facilitate material transfer between photoreceptors. EMBO Reports, 2021, 22, e53732.	4.5	42
6	Tracking neuronal motility in live murine retinal explants. STAR Protocols, 2021, 2, 101008.	1.2	0
7	Rebuilding the Retina: Prospects for MÃ¼ller Glial-mediated Self-repair. Current Eye Research, 2020, 45, 349-360.	1.5	18
8	Photoreceptor Transplantation: Re-evaluating the Mechanisms That Underlie Rescue. , 2020, , 614-629.		1
9	Conditional Dicer1 depletion using Chrnb4-Cre leads to cone cell death and impaired photopic vision. Scientific Reports, 2019, 9, 2314.	3.3	8
10	Prevention of Photoreceptor Cell Loss in a Cln6 Mouse Model of Batten Disease Requires CLN6 Gene Transfer to Bipolar Cells. Molecular Therapy, 2018, 26, 1343-1353.	8.2	39
11	Transplanted Donor- or Stem Cell-Derived Cone Photoreceptors Can Both Integrate and Undergo Material Transfer in an Environment-Dependent Manner. Stem Cell Reports, 2018, 10, 406-421.	4.8	96
12	Assessment of AAV Vector Tropisms for Mouse and Human Pluripotent Stem Cellâ€“Derived RPE and Photoreceptor Cells. Human Gene Therapy, 2018, 29, 1124-1139.	2.7	53
13	Unlocking the Potential for Endogenous Repair to Restore Sight. Neuron, 2018, 100, 524-526.	8.1	11
14	MÃ¼ller Glia Reactivity and Development of Gliosis in Response to Pathological Conditions. Advances in Experimental Medicine and Biology, 2018, 1074, 303-308.	1.6	36
15	Rescue of mutant rhodopsin traffic by metformin-induced AMPK activation accelerates photoreceptor degeneration. Human Molecular Genetics, 2017, 26, ddw387.	2.9	39
16	Harnessing the Potential of Human Pluripotent Stem Cells and Gene Editing for the Treatment of Retinal Degeneration. Current Stem Cell Reports, 2017, 3, 112-123.	1.6	27
17	Differentiation and Transplantation of Embryonic Stem Cell-Derived Cone Photoreceptors into a Mouse Model of End-Stage Retinal Degeneration. Stem Cell Reports, 2017, 8, 1659-1674.	4.8	82
18	Recapitulation of Human Retinal Development from Human Pluripotent Stem Cells Generates Transplantable Populations of Cone Photoreceptors. Stem Cell Reports, 2017, 9, 820-837.	4.8	186

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19	Pluripotent stem cells and their utility in treating photoreceptor degenerations. Progress in Brain Research, 2017, 231, 191-223.	1.4	19
20	Donor and host photoreceptors engage in material transfer following transplantation of post-mitotic photoreceptor precursors. Nature Communications, 2016, 7, 13029.	12.8	239
21	Gliosis Can Impede Integration Following Photoreceptor Transplantation into the Diseased Retina. Advances in Experimental Medicine and Biology, 2016, 854, 579-585.	1.6	18
22	Transplantation of Photoreceptor Precursors Isolated via a Cell Surface Biomarker Panel from Embryonic Stem Cell-Derived Self-Forming Retina. Stem Cells, 2015, 33, 2469-2482.	3.2	96
23	MÃ¼ller Glia Activation in Response to Inherited Retinal Degeneration Is Highly Varied and Disease-Specific. PLoS ONE, 2015, 10, e0120415.	2.5	103
24	Cellular strategies for retinal repair by photoreceptor replacement. Progress in Retinal and Eye Research, 2015, 46, 31-66.	15.5	114
25	Advances in repairing the degenerate retina by rod photoreceptor transplantation. Biotechnology Advances, 2014, 32, 485-491.	11.7	46
26	Migration, Integration and Maturation of Photoreceptor Precursors Following Transplantation in the Mouse Retina. Stem Cells and Development, 2014, 23, 941-954.	2.1	68
27	Photoreceptor replacement therapy: Challenges presented by the diseased recipient retinal environment. Visual Neuroscience, 2014, 31, 333-344.	1.0	39
28	Photoreceptor precursors derived from three-dimensional embryonic stem cell cultures integrate and mature within adult degenerate retina. Nature Biotechnology, 2013, 31, 741-747.	17.5	345
29	Repair of the degenerate retina by photoreceptor transplantation. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 354-359.	7.1	246
30	Manipulation of the Recipient Retinal Environment by Ectopic Expression of Neurotrophic Growth Factors Can Improve Transplanted Photoreceptor Integration and Survival. Cell Transplantation, 2012, 21, 871-887.	2.5	35
31	Defining the Integration Capacity of Embryonic Stem Cell-Derived Photoreceptor Precursors. Stem Cells, 2012, 30, 1424-1435.	3.2	119
32	Restoration of vision after transplantation of photoreceptors. Nature, 2012, 485, 99-103.	27.8	447
33	Long-Term Preservation of Cones and Improvement in Visual Function Following Gene Therapy in a Mouse Model of Leber Congenital Amaurosis Caused by Guanylate Cyclase-1 Deficiency. Human Gene Therapy, 2011, 22, 1179-1190.	2.7	70
34	Comparative Analysis of the Retinal Potential of Embryonic Stem Cells and Amniotic Fluid-Derived Stem Cells. Stem Cells and Development, 2011, 20, 851-863.	2.1	22
35	Dominant Cone-Rod Dystrophy: A Mouse Model Generated by Gene Targeting of the GCAP1/Guca1a Gene. PLoS ONE, 2011, 6, e18089.	2.5	28
36	Effective Transplantation of Photoreceptor Precursor Cells Selected via Cell Surface Antigen Expression. Stem Cells, 2011, 29, 1391-1404.	3.2	107

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37	Long-term and age-dependent restoration of visual function in a mouse model of CNGB3-associated achromatopsia following gene therapy. Human Molecular Genetics, 2011, 20, 3161-3175.	2.9	157
38	Isolation and Culture of Adult Ciliary Epithelial Cells, Previously Identified as Retinal Stem Cells, and Retinal Progenitor Cells. Current Protocols in Stem Cell Biology, 2011, 19, Unit 1H.4.	3.0	2
39	Targeted Disruption of Outer Limiting Membrane Junctional Proteins (Crb1 and ZO-1) Increases Integration of Transplanted Photoreceptor Precursors into the Adult Wild-Type and Degenerating Retina. Cell Transplantation, 2010, 19, 487-503.	2.5	115
40	Adult Ciliary Epithelial Cells, Previously Identified as Retinal Stem Cells with Potential for Retinal Repair, Fail to Differentiate into New Rod Photoreceptors. Stem Cells, 2010, 28, 1048-1059.	3.2	107
41	Long-Term Survival of Photoreceptors Transplanted into the Adult Murine Neural Retina Requires Immune Modulation. Stem Cells, 2010, 28, 1997-2007.	3.2	117
42	Cone and rod photoreceptor transplantation in models of the childhood retinopathy Leber congenital amaurosis using flow-sorted Crx-positive donor cells. Human Molecular Genetics, 2010, 19, 4545-4559.	2.9	96
43	Cell transplantation strategies for retinal repair. Progress in Brain Research, 2009, 175, 3-21.	1.4	87
44	Control of cell proliferation by neurotransmitters in the developing vertebrate retina. Brain Research, 2008, 1192, 37-60.	2.2	106
45	Isolation and characterisation of neural progenitor cells from the adult Chx10orJ/orJ central neural retina. Molecular and Cellular Neurosciences, 2008, 38, 359-373.	2.2	10
46	Pharmacological disruption of the outer limiting membrane leads to increased retinal integration of transplanted photoreceptor precursors. Experimental Eye Research, 2008, 86, 601-611.	2.6	147
47	Comparative Analysis of Progenitor Cells Isolated from the Iris, Pars Plana, and Ciliary Body of the Adult Porcine Eye. Stem Cells, 2007, 25, 2430-2438.	3.2	82
48	Stem cell therapy and the retina. Eye, 2007, 21, 1352-1359.	2.1	75
49	Absence ofChx10Causes Neural Progenitors to Persist in the Adult Retina. , 2006, 47, 386.		33
50	Retinal repair by transplantation of photoreceptor precursors. Nature, 2006, 444, 203-207.	27.8	999
51	Gap Junctions Modulate Interkinetic Nuclear Movement in Retinal Progenitor Cells. Journal of Neuroscience, 2005, 25, 10803-10814.	3.6	74
52	ATP Released via Gap Junction Hemichannels from the Pigment Epithelium Regulates Neural Retinal Progenitor Proliferation. Neuron, 2005, 46, 731-744.	8.1	290
53	Ca2+ signalling and gap junction coupling within and between pigment epithelium and neural retina in the developing chick. European Journal of Neuroscience, 2004, 19, 2435-2445.	2.6	57
54	Use of pIRES Vectors to Express EGFP and Connexin Constructs in Studies of the Role of Gap Junctional Communication in the Early Development of the Chick Retina and Brain. Cell Communication and Adhesion, 2001, 8, 355-359.	1.0	6

#	Article	IF	Citations
55	Neurotransmitters and neurotrophins. , 0, , 99-125.		1