

# Rachael A Pearson

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/2925233/publications.pdf>

Version: 2024-02-01

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	Retinal repair by transplantation of photoreceptor precursors. <i>Nature</i> , 2006, 444, 203-207.	27.8	999
2	Restoration of vision after transplantation of photoreceptors. <i>Nature</i> , 2012, 485, 99-103.	27.8	447
3	Photoreceptor precursors derived from three-dimensional embryonic stem cell cultures integrate and mature within adult degenerate retina. <i>Nature Biotechnology</i> , 2013, 31, 741-747.	17.5	345
4	ATP Released via Gap Junction Hemichannels from the Pigment Epithelium Regulates Neural Retinal Progenitor Proliferation. <i>Neuron</i> , 2005, 46, 731-744.	8.1	290
5	Repair of the degenerate retina by photoreceptor transplantation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 354-359.	7.1	246
6	Donor and host photoreceptors engage in material transfer following transplantation of post-mitotic photoreceptor precursors. <i>Nature Communications</i> , 2016, 7, 13029.	12.8	239
7	Recapitulation of Human Retinal Development from Human Pluripotent Stem Cells Generates Transplantable Populations of Cone Photoreceptors. <i>Stem Cell Reports</i> , 2017, 9, 820-837.	4.8	186
8	Long-term and age-dependent restoration of visual function in a mouse model of CNGB3-associated achromatopsia following gene therapy. <i>Human Molecular Genetics</i> , 2011, 20, 3161-3175.	2.9	157
9	Pharmacological disruption of the outer limiting membrane leads to increased retinal integration of transplanted photoreceptor precursors. <i>Experimental Eye Research</i> , 2008, 86, 601-611.	2.6	147
10	Defining the Integration Capacity of Embryonic Stem Cell-Derived Photoreceptor Precursors. <i>Stem Cells</i> , 2012, 30, 1424-1435.	3.2	119
11	Long-Term Survival of Photoreceptors Transplanted into the Adult Murine Neural Retina Requires Immune Modulation. <i>Stem Cells</i> , 2010, 28, 1997-2007.	3.2	117
12	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. <i>Cell Transplantation</i> , 2010, 19, 487-503.	2.5	115
13	Cellular strategies for retinal repair by photoreceptor replacement. <i>Progress in Retinal and Eye Research</i> , 2015, 46, 31-66.	15.5	114
14	Adult Ciliary Epithelial Cells, Previously Identified as Retinal Stem Cells with Potential for Retinal Repair, Fail to Differentiate into New Rod Photoreceptors. <i>Stem Cells</i> , 2010, 28, 1048-1059.	3.2	107
15	Effective Transplantation of Photoreceptor Precursor Cells Selected via Cell Surface Antigen Expression. <i>Stem Cells</i> , 2011, 29, 1391-1404.	3.2	107
16	Control of cell proliferation by neurotransmitters in the developing vertebrate retina. <i>Brain Research</i> , 2008, 1192, 37-60.	2.2	106
17	Müller Glia Activation in Response to Inherited Retinal Degeneration Is Highly Varied and Disease-Specific. <i>PLoS ONE</i> , 2015, 10, e0120415.	2.5	103
18	Cone and rod photoreceptor transplantation in models of the childhood retinopathy Leber congenital amaurosis using flow-sorted Crx-positive donor cells. <i>Human Molecular Genetics</i> , 2010, 19, 4545-4559.	2.9	96

#	ARTICLE	IF	CITATIONS
19	Transplantation of Photoreceptor Precursors Isolated via a Cell Surface Biomarker Panel from Embryonic Stem Cell-Derived Self-Forming Retina. <i>Stem Cells</i> , 2015, 33, 2469-2482.	3.2	96
20	Transplanted Donor- or Stem Cell-Derived Cone Photoreceptors Can Both Integrate and Undergo Material Transfer in an Environment-Dependent Manner. <i>Stem Cell Reports</i> , 2018, 10, 406-421.	4.8	96
21	Cell transplantation strategies for retinal repair. <i>Progress in Brain Research</i> , 2009, 175, 3-21.	1.4	87
22	Comparative Analysis of Progenitor Cells Isolated from the Iris, Pars Plana, and Ciliary Body of the Adult Porcine Eye. <i>Stem Cells</i> , 2007, 25, 2430-2438.	3.2	82
23	Differentiation and Transplantation of Embryonic Stem Cell-Derived Cone Photoreceptors into a Mouse Model of End-Stage Retinal Degeneration. <i>Stem Cell Reports</i> , 2017, 8, 1659-1674.	4.8	82
24	Stem cell therapy and the retina. <i>Eye</i> , 2007, 21, 1352-1359.	2.1	75
25	Gap Junctions Modulate Interkinetic Nuclear Movement in Retinal Progenitor Cells. <i>Journal of Neuroscience</i> , 2005, 25, 10803-10814.	3.6	74
26	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. <i>Human Gene Therapy</i> , 2011, 22, 1179-1190.	2.7	70
27	Migration, Integration and Maturation of Photoreceptor Precursors Following Transplantation in the Mouse Retina. <i>Stem Cells and Development</i> , 2014, 23, 941-954.	2.1	68
28	Restoration of visual function in advanced disease after transplantation of purified human pluripotent stem cell-derived cone photoreceptors. <i>Cell Reports</i> , 2021, 35, 109022.	6.4	65
29	Ca <sup>2+</sup> signalling and gap junction coupling within and between pigment epithelium and neural retina in the developing chick. <i>European Journal of Neuroscience</i> , 2004, 19, 2435-2445.	2.6	57
30	Assessment of AAV Vector Tropisms for Mouse and Human Pluripotent Stem Cell-Derived RPE and Photoreceptor Cells. <i>Human Gene Therapy</i> , 2018, 29, 1124-1139.	2.7	53
31	Advances in repairing the degenerate retina by rod photoreceptor transplantation. <i>Biotechnology Advances</i> , 2014, 32, 485-491.	11.7	46
32	Nanotube-like processes facilitate material transfer between photoreceptors. <i>EMBO Reports</i> , 2021, 22, e53732.	4.5	42
33	Photoreceptor replacement therapy: Challenges presented by the diseased recipient retinal environment. <i>Visual Neuroscience</i> , 2014, 31, 333-344.	1.0	39
34	Rescue of mutant rhodopsin traffic by metformin-induced AMPK activation accelerates photoreceptor degeneration. <i>Human Molecular Genetics</i> , 2017, 26, ddw387.	2.9	39
35	Prevention of Photoreceptor Cell Loss in a Cln6 Mouse Model of Batten Disease Requires CLN6 Gene Transfer to Bipolar Cells. <i>Molecular Therapy</i> , 2018, 26, 1343-1353.	8.2	39
36	Müller Glia Reactivity and Development of Gliosis in Response to Pathological Conditions. <i>Advances in Experimental Medicine and Biology</i> , 2018, 1074, 303-308.	1.6	36

#	ARTICLE	IF	CITATIONS
37	Manipulation of the Recipient Retinal Environment by Ectopic Expression of Neurotrophic Growth Factors Can Improve Transplanted Photoreceptor Integration and Survival. <i>Cell Transplantation</i> , 2012, 21, 871-887.	2.5	35
38	Absence of Chx10 Causes Neural Progenitors to Persist in the Adult Retina. , 2006, 47, 386.		33
39	Dominant Cone-Rod Dystrophy: A Mouse Model Generated by Gene Targeting of the GCAP1/Guca1a Gene. <i>PLoS ONE</i> , 2011, 6, e18089.	2.5	28
40	Harnessing the Potential of Human Pluripotent Stem Cells and Gene Editing for the Treatment of Retinal Degeneration. <i>Current Stem Cell Reports</i> , 2017, 3, 112-123.	1.6	27
41	Comparative Analysis of the Retinal Potential of Embryonic Stem Cells and Amniotic Fluid-Derived Stem Cells. <i>Stem Cells and Development</i> , 2011, 20, 851-863.	2.1	22
42	Pluripotent stem cells and their utility in treating photoreceptor degenerations. <i>Progress in Brain Research</i> , 2017, 231, 191-223.	1.4	19
43	Rebuilding the Retina: Prospects for Müller Glial-mediated Self-repair. <i>Current Eye Research</i> , 2020, 45, 349-360.	1.5	18
44	Gliosis Can Impede Integration Following Photoreceptor Transplantation into the Diseased Retina. <i>Advances in Experimental Medicine and Biology</i> , 2016, 854, 579-585.	1.6	18
45	RNAi-mediated suppression of vimentin or glial fibrillary acidic protein prevents the establishment of Müller glial cell hypertrophy in progressive retinal degeneration. <i>Glia</i> , 2021, 69, 2272-2290.	4.9	17
46	Unlocking the Potential for Endogenous Repair to Restore Sight. <i>Neuron</i> , 2018, 100, 524-526.	8.1	11
47	Isolation and characterisation of neural progenitor cells from the adult Chx10 <sup>orj/orj</sup> central neural retina. <i>Molecular and Cellular Neurosciences</i> , 2008, 38, 359-373.	2.2	10
48	Repeated nuclear translocations underlie photoreceptor positioning and lamination of the outer nuclear layer in the mammalian retina. <i>Cell Reports</i> , 2021, 36, 109461.	6.4	9
49	Conditional Dicer1 depletion using Chrb4-Cre leads to cone cell death and impaired photopic vision. <i>Scientific Reports</i> , 2019, 9, 2314.	3.3	8
50	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. <i>Cell Communication and Adhesion</i> , 2001, 8, 355-359.	1.0	6
51	Isolation and Culture of Adult Ciliary Epithelial Cells, Previously Identified as Retinal Stem Cells, and Retinal Progenitor Cells. <i>Current Protocols in Stem Cell Biology</i> , 2011, 19, Unit 1H.4.	3.0	2
52	Neurotransmitters and neurotrophins. , 0, , 99-125.		1
53	Photoreceptor Transplantation: Re-evaluating the Mechanisms That Underlie Rescue. , 2020, , 614-629.		1
54	Cover Image, Volume 69, Issue 9. <i>Glia</i> , 2021, 69, C1.	4.9	0

#	ARTICLE	IF	CITATIONS
55	Tracking neuronal motility in live murine retinal explants. STAR Protocols, 2021, 2, 101008.	1.2	0