

Luke A Wiley

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/7245999/publications.pdf>

Version: 2024-02-01

45
papers

1,756
citations

304368

22
h-index

301761

39
g-index

45
all docs

45
docs citations

45
times ranked

2703
citing authors

#	ARTICLE	IF	CITATIONS
1	Using CRISPR-Cas9 to Generate Gene-Corrected Autologous iPSCs for the Treatment of Inherited Retinal Degeneration. <i>Molecular Therapy</i> , 2017, 25, 1999-2013.	3.7	121
2	Endothelial cell FGF signaling is required for injury response but not for vascular homeostasis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 13379-13384.	3.3	111
3	Patient-specific induced pluripotent stem cells (iPSCs) for the study and treatment of retinal degenerative diseases. <i>Progress in Retinal and Eye Research</i> , 2015, 44, 15-35.	7.3	108
4	cGMP production of patient-specific iPSCs and photoreceptor precursor cells to treat retinal degenerative blindness. <i>Scientific Reports</i> , 2016, 6, 30742.	1.6	108
5	North Carolina Macular Dystrophy Is Caused by Dysregulation of the Retinal Transcription Factor PRDM13. <i>Ophthalmology</i> , 2016, 123, 9-18.	2.5	105
6	Two-photon polymerization for production of human iPSC-derived retinal cell grafts. <i>Acta Biomaterialia</i> , 2017, 55, 385-395.	4.1	76
7	Duplication of TBK1 Stimulates Autophagy in iPSC-derived Retinal Cells from a Patient with Normal Tension Glaucoma. <i>Journal of Stem Cell Research & Therapy</i> , 2014, 04, 161.	0.3	75
8	Hypomorphic mutations in <i>TRNT1</i> cause retinitis pigmentosa with erythrocytic microcytosis. <i>Human Molecular Genetics</i> , 2016, 25, 44-56.	1.4	64
9	CRISPR-Cas9 genome engineering: Treating inherited retinal degeneration. <i>Progress in Retinal and Eye Research</i> , 2018, 65, 28-49.	7.3	64
10	Impaired autophagy in macrophages promotes inflammatory eye disease. <i>Autophagy</i> , 2016, 12, 1876-1885.	4.3	58
11	Sympathetic Innervation Regulates Basement Membrane Thickening and Pericyte Number in Rat Retina. , 2005, 46, 744.		55
12	Assessment of Adeno-Associated Virus Serotype Tropism in Human Retinal Explants. <i>Human Gene Therapy</i> , 2018, 29, 424-436.	1.4	53
13	Mechanical properties of murine and porcine ocular tissues in compression. <i>Experimental Eye Research</i> , 2014, 121, 194-199.	1.2	51
14	Effect of Molecular Weight and Functionality on Acrylated Poly(caprolactone) for Stereolithography and Biomedical Applications. <i>Biomacromolecules</i> , 2018, 19, 3682-3692.	2.6	51
15	Two-photon polymerized poly(caprolactone) retinal cell delivery scaffolds and their systemic and retinal biocompatibility. <i>Acta Biomaterialia</i> , 2019, 94, 204-218.	4.1	51
16	Molecular response of chorioretinal endothelial cells to complement injury: implications for macular degeneration. <i>Journal of Pathology</i> , 2016, 238, 446-456.	2.1	47
17	Feeder-free differentiation of cells exhibiting characteristics of corneal endothelium from human induced pluripotent stem cells. <i>Biology Open</i> , 2018, 7, .	0.6	46
18	Patient-specific induced pluripotent stem cells to evaluate the pathophysiology of TRNT1 -associated Retinitis pigmentosa. <i>Stem Cell Research</i> , 2017, 21, 58-70.	0.3	45

#	ARTICLE	IF	CITATIONS
19	The tumor suppressor gene <i>Trp53</i> protects the mouse lens against posterior subcapsular cataracts and the BMP receptor <i>Acvr1</i> acts as a tumor suppressor in the lens. <i>DMM Disease Models and Mechanisms</i> , 2011, 4, 484-495.	1.2	38
20	Neuronal Differentiation of Induced Pluripotent Stem Cells on Surfactant Templated Chitosan Hydrogels. <i>Biomacromolecules</i> , 2016, 17, 1684-1695.	2.6	38
21	Generating iPSC-Derived Choroidal Endothelial Cells to Study Age-Related Macular Degeneration. , 2015, 56, 8258.		36
22	Using Patient-Specific Induced Pluripotent Stem Cells and Wild-Type Mice to Develop a Gene Augmentation-Based Strategy to Treat <i>CLN3</i> -Associated Retinal Degeneration. <i>Human Gene Therapy</i> , 2016, 27, 835-846.	1.4	29
23	Retinal Tropism and Transduction of Adeno-Associated Virus Varies by Serotype and Route of Delivery (Intravitreal, Subretinal, or Suprachoroidal) in Rats. <i>Human Gene Therapy</i> , 2020, 31, 1288-1299.	1.4	28
24	Correction of NR2E3 Associated Enhanced S-cone Syndrome Patient-specific iPSCs using CRISPR-Cas9. <i>Genes</i> , 2019, 10, 278.	1.0	27
25	Superior Cervical Ganglionectomy Induces Changes in Growth Factor Expression in the Rat Retina. , 2006, 47, 439.		22
26	The Tumor Suppressor Merlin Is Required for Cell Cycle Exit, Terminal Differentiation, and Cell Polarity in the Developing Murine Lens. , 2010, 51, 3611.		21
27	Optimizing Donor Cellular Dissociation and Subretinal Injection Parameters for Stem Cell-Based Treatments. <i>Stem Cells Translational Medicine</i> , 2019, 8, 797-809.	1.6	21
28	Concise Review: Patient-Specific Stem Cells to Interrogate Inherited Eye Disease. <i>Stem Cells Translational Medicine</i> , 2016, 5, 132-140.	1.6	19
29	Helper-Dependent Adenovirus Transduces the Human and Rat Retina but Elicits an Inflammatory Reaction When Delivered Subretinally in Rats. <i>Human Gene Therapy</i> , 2019, 30, 1371-1384.	1.4	19
30	Differentiation of Induced Pluripotent Stem Cells to Neural Retinal Precursor Cells on Porous Poly-Lactic-co-Glycolic Acid Scaffolds. <i>Journal of Ocular Pharmacology and Therapeutics</i> , 2016, 32, 310-316.	0.6	17
31	Gene Therapy Using Stem Cells. <i>Cold Spring Harbor Perspectives in Medicine</i> , 2015, 5, a017434-a017434.	2.9	16
32	Development of High-Resolution Three-Dimensional-Printed Extracellular Matrix Scaffolds and Their Compatibility with Pluripotent Stem Cells and Early Retinal Cells. <i>Journal of Ocular Pharmacology and Therapeutics</i> , 2020, 36, 42-55.	0.6	16
33	Visualizing lens epithelial cell proliferation in whole lenses. <i>Molecular Vision</i> , 2010, 16, 1253-9.	1.1	16
34	Generation of Xeno-Free, cGMP-Compliant Patient-Specific iPSCs from Skin Biopsy. <i>Current Protocols in Stem Cell Biology</i> , 2017, 42, 4A.12.1-4A.12.14.	3.0	15
35	CRISPR-Cas9-Mediated Correction of the 1.02% Common Deletion in <i>CLN3</i> in Induced Pluripotent Stem Cells from Patients with Batten Disease. <i>CRISPR Journal</i> , 2018, 1, 75-87.	1.4	15
36	WNT7A/B promote choroidal neovascularization. <i>Experimental Eye Research</i> , 2018, 174, 107-112.	1.2	12

#	ARTICLE	IF	CITATIONS
37	Stem Cells as Tools for Studying the Genetics of Inherited Retinal Degenerations. Cold Spring Harbor Perspectives in Medicine, 2015, 5, a017160-a017160.	2.9	11
38	A Method for Sectioning and Immunohistochemical Analysis of Stem Cellâ€‘Derived 3â€‘D Organoids. Current Protocols in Stem Cell Biology, 2016, 37, 1C.19.1-1C.19.11.	3.0	11
39	Retinoblastoma protein prevents enteric nervous system defects and intestinal pseudo-obstruction. Journal of Clinical Investigation, 2013, 123, 5152-5164.	3.9	10
40	Biocompatibility of Human Induced Pluripotent Stem Cellâ€‘Derived Retinal Progenitor Cell Grafts in Immunocompromised Rats. Cell Transplantation, 2022, 31, 096368972211044.	1.2	9
41	The effect of retinal scaffold modulus on performance during surgical handling. Experimental Eye Research, 2021, 207, 108566.	1.2	5
42	Development and biological characterization of a clinical gene transfer vector for the treatment of MAK-associated retinitis pigmentosa. Gene Therapy, 2021, , .	2.3	5
43	Chimeric Helper-Dependent Adenoviruses Transduce Retinal Ganglion Cells and MÃ¼ller Cells in Human Retinal Explants. Journal of Ocular Pharmacology and Therapeutics, 2021, 37, 575-579.	0.6	5
44	Prevascularized silicon membranes for the enhancement of transport to implanted medical devices. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2016, 104, 1602-1609.	1.6	3
45	Expression of the retina-specific flippase, ABCA4, in epidermal keratinocytes. F1000Research, 0, 5, 193.	0.8	3