Luke A Wiley

List of Publications by Year
in descending order

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	Biocompatibility of Human Induced Pluripotent Stem Cellâ€“Derived Retinal Progenitor Cell Grafts in Immunocompromised Rats. Cell Transplantation, 2022, 31, 096368972211044.	1.2	9
2	The effect of retinal scaffold modulus on performance during surgical handling. Experimental Eye Research, 2021, 207, 108566.	1.2	5
3	Development and biological characterization of a clinical gene transfer vector for the treatment of MAK-associated retinitis pigmentosa. Gene Therapy, 2021, , .	2.3	5
4	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
5	Development of High-Resolution Three-Dimensional-Printed Extracellular Matrix Scaffolds and Their Compatibility with Pluripotent Stem Cells and Early Retinal Cells. Journal of Ocular Pharmacology and Therapeutics, 2020, 36, 42-55.	0.6	16
6	Retinal Tropism and Transduction of Adeno-Associated Virus Varies by Serotype and Route of Delivery (Intravitreal, Subretinal, or Suprachoroidal) in Rats. Human Gene Therapy, 2020, 31, 1288-1299.	1.4	28
7	Helper-Dependent Adenovirus Transduces the Human and Rat Retina but Elicits an Inflammatory Reaction When Delivered Subretinally in Rats. Human Gene Therapy, 2019, 30, 1371-1384.	1.4	19
8	Two-photon polymerized poly(caprolactone) retinal cell delivery scaffolds and their systemic and retinal biocompatibility. Acta Biomaterialia, 2019, 94, 204-218.	4.1	51
9	Optimizing Donor Cellular Dissociation and Subretinal Injection Parameters for Stem Cell-Based Treatments. Stem Cells Translational Medicine, 2019, 8, 797-809.	1.6	21
10	Correction of NR2E3 Associated Enhanced S-cone Syndrome Patient-specific iPSCs using CRISPR-Cas9. Genes, 2019, 10, 278.	1.0	27
11	Feeder-free differentiation of cells exhibiting characteristics of corneal endothelium from human induced pluripotent stem cells. Biology Open, 2018, 7, .	0.6	46
12	CRISPR-Cas9-Mediated Correction of the 1.02â€‰kb Common Deletion in CLN3 in Induced Pluripotent Stem Cells from Patients with Batten Disease. CRISPR Journal, 2018, 1, 75-87.	1.4	15
13	CRISPR-Cas9 genome engineering: Treating inherited retinal degeneration. Progress in Retinal and Eye Research, 2018, 65, 28-49.	7.3	64
14	Assessment of Adeno-Associated Virus Serotype Tropism in Human Retinal Explants. Human Gene Therapy, 2018, 29, 424-436.	1.4	53
15	WNT7A/B promote choroidal neovascularization. Experimental Eye Research, 2018, 174, 107-112.	1.2	12
16	Effect of Molecular Weight and Functionality on Acrylated Poly(caprolactone) for Stereolithography and Biomedical Applications. Biomacromolecules, 2018, 19, 3682-3692.	2.6	51
17	Using CRISPR-Cas9 to Generate Gene-Corrected Autologous iPSCs for the Treatment of Inherited Retinal Degeneration. Molecular Therapy, 2017, 25, 1999-2013.	3.7	121
18	Patient-specific induced pluripotent stem cells to evaluate the pathophysiology of TRNT1 -associated Retinitis pigmentosa. Stem Cell Research, 2017, 21, 58-70.	0.3	45

#	Article	IF	Citations
19	Two-photon polymerization for production of human iPSC-derived retinal cell grafts. Acta Biomaterialia, 2017, 55, 385-395.	4.1	76
20	Generation of Xenoâ€Free, cGMPâ€Compliant Patientâ€Specific iPSCs from Skin Biopsy. Current Protocols in Stem Cell Biology, 2017, 42, 4A.12.1-4A.12.14.	3.0	15
21	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
22	Neuronal Differentiation of Induced Pluripotent Stem Cells on Surfactant Templated Chitosan Hydrogels. Biomacromolecules, 2016, 17, 1684-1695.	2.6	38
23	Using Patient-Specific Induced Pluripotent Stem Cells and Wild-Type Mice to Develop a Gene Augmentation-Based Strategy to Treat CLN3-Associated Retinal Degeneration. Human Gene Therapy, 2016, 27, 835-846.	1.4	29
24	Impaired autophagy in macrophages promotes inflammatory eye disease. Autophagy, 2016, 12, 1876-1885.	4.3	58
25	cGMP production of patient-specific iPSCs and photoreceptor precursor cells to treat retinal degenerative blindness. Scientific Reports, 2016, 6, 30742.	1.6	108
26	North Carolina Macular Dystrophy Is Caused by Dysregulation of the Retinal Transcription Factor PRDM13. Ophthalmology, 2016, 123, 9-18.	2.5	105
27	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
28	Molecular response of chorioretinal endothelial cells to complement injury: implications for macular degeneration. Journal of Pathology, 2016, 238, 446-456.	2.1	47
29	Concise Review: Patient-Specific Stem Cells to Interrogate Inherited Eye Disease. Stem Cells Translational Medicine, 2016, 5, 132-140.	1.6	19
30	Differentiation of Induced Pluripotent Stem Cells to Neural Retinal Precursor Cells on Porous Poly-Lactic-co-Glycolic Acid Scaffolds. Journal of Ocular Pharmacology and Therapeutics, 2016, 32, 310-316.	0.6	17
31	Hypomorphic mutations inTRNT1cause retinitis pigmentosa with erythrocytic microcytosis. Human Molecular Genetics, 2016, 25, 44-56.	1.4	64
32	Generating iPSC-Derived Choroidal Endothelial Cells to Study Age-Related Macular Degeneration. , 2015, 56, 8258.		36
33	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
34	Patient-specific induced pluripotent stem cells (iPSCs) for the study and treatment of retinal degenerative diseases. Progress in Retinal and Eye Research, 2015, 44, 15-35.	7.3	108
35	Gene Therapy Using Stem Cells. Cold Spring Harbor Perspectives in Medicine, 2015, 5, a017434-a017434.	2.9	16
36	Endothelial cell FGF signaling is required for injury response but not for vascular homeostasis. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 13379-13384.	3.3	111

#	Article	IF	Citations
37	Duplication of TBK1 Stimulates Autophagy in iPSC-derived Retinal Cells from a Patient with Normal Tension Glaucoma. Journal of Stem Cell Research & Therapy, 2014, 04, 161.	0.3	75
38	Mechanical properties of murine and porcine ocular tissues in compression. Experimental Eye Research, 2014, 121, 194-199.	1.2	51
39	Retinoblastoma protein prevents enteric nervous system defects and intestinal pseudo-obstruction. Journal of Clinical Investigation, 2013, 123, 5152-5164.	3.9	10
40	The tumor suppressor geneTrp53protects the mouse lens against posterior subcapsular cataracts and the BMP receptor Acvr1 acts as a tumor suppressor in the lens. DMM Disease Models and Mechanisms, 2011, 4, 484-495.	1.2	38
41	The Tumor Suppressor Merlin Is Required for Cell Cycle Exit, Terminal Differentiation, and Cell Polarity in the Developing Murine Lens. , 2010, 51, 3611.		21
42	Visualizing lens epithelial cell proliferation in whole lenses. Molecular Vision, 2010, 16, 1253-9.	1.1	16
43	Superior Cervical Ganglionectomy Induces Changes in Growth Factor Expression in the Rat Retina. , 2006, 47, 439.		22
44	Sympathetic Innervation Regulates Basement Membrane Thickening and Pericyte Number in Rat Retina. , 2005, 46, 744.		55
45	Expression of the retina-specific flippase, ABCA4, in epidermal keratinocytes. F1000Research, 0, 5, 193.	0.8	3