Luke A Wiley

List of Publications by Citations

43 papers	1,276 citations	22 h-index	35 g-index
45 ext. papers	1,550 ext. citations	6 avg, IF	4.13 L-index

#	Paper	IF	Citations
43	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	20.5	90
42	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, 13379-84	11.5	88
41	Using CRISPR-Cas9 to Generate Gene-Corrected Autologous iPSCs for the Treatment of Inherited Retinal Degeneration. *Molecular Therapy*, **2017**, 25, 1999-2013	11.7	84
40	cGMP production of patient-specific iPSCs and photoreceptor precursor cells to treat retinal degenerative blindness. *Scientific Reports*, **2016**, 6, 30742	4.9	76
39	North Carolina Macular Dystrophy Is Caused by Dysregulation of the Retinal Transcription Factor PRDM13. *Ophthalmology*, **2016**, 123, 9-18	7.3	73
38	Duplication of TBK1 Stimulates Autophagy in iPSC-derived Retinal Cells from a Patient with Normal Tension Glaucoma. *Journal of Stem Cell Research & Therapy*, **2014**, 3, 161	1	68
37	Two-photon polymerization for production of human iPSC-derived retinal cell grafts. *Acta Biomaterialia*, **2017**, 55, 385-395	10.8	58
36	Hypomorphic mutations in TRNT1 cause retinitis pigmentosa with erythrocytic microcytosis. *Human Molecular Genetics*, **2016**, 25, 44-56	5.6	51
35	Sympathetic innervation regulates basement membrane thickening and pericyte number in rat retina. *Investigative Ophthalmology and Visual Science*, **2005**, 46, 744-8		51
34	CRISPR-Cas9 genome engineering: Treating inherited retinal degeneration. *Progress in Retinal and Eye Research*, **2018**, 65, 28-49	20.5	43
33	Molecular response of chorioretinal endothelial cells to complement injury: implications for macular degeneration. *Journal of Pathology*, **2016**, 238, 446-56	9.4	40
32	Impaired autophagy in macrophages promotes inflammatory eye disease. *Autophagy*, **2016**, 12, 1876-1885	10.2	39
31	Patient-specific induced pluripotent stem cells to evaluate the pathophysiology of TRNT1-associated Retinitis pigmentosa. *Stem Cell Research*, **2017**, 21, 58-70	1.6	38
30	Mechanical properties of murine and porcine ocular tissues in compression. *Experimental Eye Research*, **2014**, 121, 194-9	3.7	38
29	The tumor suppressor gene Trp53 protects 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, 484-95	4.1	34
28	Two-photon polymerized poly(caprolactone) retinal cell delivery scaffolds and their systemic and retinal biocompatibility. *Acta Biomaterialia*, **2019**, 94, 204-218	10.8	32
27	Effect of Molecular Weight and Functionality on Acrylated Poly(caprolactone) for Stereolithography and Biomedical Applications. *Biomacromolecules*, **2018**, 19, 3682-3692	6.9	32

26	Generating iPSC-Derived Choroidal Endothelial Cells to Study Age-Related Macular Degeneration **2015**, 56, 8258-67		32
25	Feeder-free differentiation of cells exhibiting characteristics of corneal endothelium from human induced pluripotent stem cells. *Biology Open*, **2018**, 7,	2.2	31
24	Neuronal Differentiation of Induced Pluripotent Stem Cells on Surfactant Templated Chitosan Hydrogels. *Biomacromolecules*, **2016**, 17, 1684-95	6.9	26
23	Assessment of Adeno-Associated Virus Serotype Tropism in Human Retinal Explants. *Human Gene Therapy*, **2018**, 29, 424-436	4.8	26
22	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	4.8	24
21	Superior cervical ganglionectomy induces changes in growth factor expression in the rat retina. *Investigative Ophthalmology and Visual Science*, **2006**, 47, 439-43		21
20	The tumor suppressor merlin is required for cell cycle exit, terminal differentiation, and cell polarity in the developing murine lens **2010**, 51, 3611-8		19
19	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, 310-6	2.6	17
18	Visualizing lens epithelial cell proliferation in whole lenses. *Molecular Vision*, **2010**, 16, 1253-9	2.3	15
17	Correction of NR2E3 Associated Enhanced S-cone Syndrome Patient-specific iPSCs using CRISPR-Cas9. *Genes*, **2019**, 10,	4.2	14
16	Gene therapy using stem cells. *Cold Spring Harbor Perspectives in Medicine*, **2014**, 5,	5.4	13
15	Concise Review: Patient-Specific Stem Cells to Interrogate Inherited Eye Disease. *Stem Cells Translational Medicine*, **2016**, 5, 132-40	6.9	13
14	CRISPR-Cas9-Mediated Correction of the 1.02 kb Common Deletion in in Induced Pluripotent Stem Cells from Patients with Batten Disease. *CRISPR Journal*, **2018**, 1, 75-87	2.5	12
13	Generation of Xeno-Free, cGMP-Compliant Patient-Specific iPSCs from Skin Biopsy. *Current Protocols in Stem Cell Biology*, **2017**, 42, 4A.12.1-4A.12.14	2.8	11
12	Stem cells as tools for studying the genetics of inherited retinal degenerations. *Cold Spring Harbor Perspectives in Medicine*, **2014**, 5, a017160	5.4	10
11	Retinoblastoma protein prevents enteric nervous system defects and intestinal pseudo-obstruction. *Journal of Clinical Investigation*, **2013**, 123, 5152-64	15.9	10
10	A Method for Sectioning and Immunohistochemical Analysis of Stem Cell-Derived 3-D Organoids. *Current Protocols in Stem Cell Biology*, **2016**, 37, 1C.19.1-1C.19.11	2.8	9
9	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	4.8	8

8	Optimizing Donor Cellular Dissociation and Subretinal Injection Parameters for Stem Cell-Based Treatments. *Stem Cells Translational Medicine*, **2019**, 8, 797-809	6.9	8
7	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	2.6	8
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	4.8	5
5	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	3.5	3
4	WNT7A/B promote choroidal neovascularization. *Experimental Eye Research*, **2018**, 174, 107-112	3.7	3
3	Expression of the retina-specific flippase, ABCA4, in epidermal keratinocytes. *F1000Research*,5, 193	3.6	1
2	The effect of retinal scaffold modulus on performance during surgical handling. *Experimental Eye Research*, **2021**, 207, 108566	3.7	1
1	Chimeric Helper-Dependent Adenoviruses Transduce Retinal Ganglion Cells and Müller Cells in Human Retinal Explants. *Journal of Ocular Pharmacology and Therapeutics*, **2021**, 37, 575-579	2.6	0