

Budd A Tucker

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

122
papers

5,361
citations

42
h-index

70
g-index

131
ext. papers

6,411
ext. citations

6.4
avg, IF

5.56
L-index

#	Paper	IF	Citations
122	Endogenous VEGF is required for visual function: evidence for a survival role on mller cells and photoreceptors. <i>PLoS ONE</i> , 2008 , 3, e3554	3.7	448
121	Transplantation of adult mouse iPS cell-derived photoreceptor precursors restores retinal structure and function in degenerative mice. <i>PLoS ONE</i> , 2011 , 6, e18992	3.7	238
120	Clinically Focused Molecular Investigation of 1000 Consecutive Families with Inherited Retinal Disease. <i>Ophthalmology</i> , 2017 , 124, 1314-1331	7.3	188
119	Exome sequencing and analysis of induced pluripotent stem cells identify the cilia-related gene male germ cell-associated kinase (MAK) as a cause of retinitis pigmentosa. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011 , 108, E569-76	11.5	163
118	ABCB5 is a limbal stem cell gene required for corneal development and repair. <i>Nature</i> , 2014 , 511, 353-7	50.4	161
117	The synergistic effects of NGF and IGF-1 on neurite growth in adult sensory neurons: convergence on the PI 3-kinase signaling pathway. <i>Journal of Neurochemistry</i> , 2003 , 86, 1116-28	6	153
116	Patient-specific iPSC-derived photoreceptor precursor cells as a means to investigate retinitis pigmentosa. <i>ELife</i> , 2013 , 2, e00824	8.9	138
115	Endurance exercise regimens induce differential effects on brain-derived neurotrophic factor, synapsin-I and insulin-like growth factor I after focal ischemia. <i>Neuroscience</i> , 2005 , 136, 991-1001	3.9	137
114	The membrane attack complex in aging human choriocapillaris: relationship to macular degeneration and choroidal thinning. <i>American Journal of Pathology</i> , 2014 , 184, 3142-53	5.8	134
113	Exercise intensity influences the temporal profile of growth factors involved in neuronal plasticity following focal ischemia. <i>Brain Research</i> , 2007 , 1150, 207-16	3.7	132
112	Complement activation and choriocapillaris loss in early AMD: implications for pathophysiology and therapy. <i>Progress in Retinal and Eye Research</i> , 2015 , 45, 1-29	20.5	128
111	Non-exomic and synonymous variants in ABCA4 are an important cause of Stargardt disease. <i>Human Molecular Genetics</i> , 2013 , 22, 5136-45	5.6	125
110	CEP290 gene transfer rescues Leber congenital amaurosis cellular phenotype. <i>Gene Therapy</i> , 2014 , 21, 662-72	4	100
109	CNS progenitor cells promote a permissive environment for neurite outgrowth via a matrix metalloproteinase-2-dependent mechanism. <i>Journal of Neuroscience</i> , 2007 , 27, 4499-506	6.6	98
108	Structural and molecular changes in the aging choroid: implications for age-related macular degeneration. <i>Eye</i> , 2017 , 31, 10-25	4.4	91
107	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	20.5	90
106	Single-cell transcriptomics of the human retinal pigment epithelium and choroid in health and macular degeneration. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 24100-24107	11.5	85

105	Using CRISPR-Cas9 to Generate Gene-Corrected Autologous iPSCs for the Treatment of Inherited Retinal Degeneration. <i>Molecular Therapy</i> , 2017 , 25, 1999-2013	11.7	84
104	The use of progenitor cell/biodegradable MMP2-PLGA polymer constructs to enhance cellular integration and retinal repopulation. <i>Biomaterials</i> , 2010 , 31, 9-19	15.6	81
103	Use of a synthetic xeno-free culture substrate for induced pluripotent stem cell induction and retinal differentiation. <i>Stem Cells Translational Medicine</i> , 2013 , 2, 16-24	6.9	80
102	cGMP production of patient-specific iPSCs and photoreceptor precursor cells to treat retinal degenerative blindness. <i>Scientific Reports</i> , 2016 , 6, 30742	4.9	76
101	Transcriptomic analysis across nasal, temporal, and macular regions of human neural retina and RPE/choroid by RNA-Seq. <i>Experimental Eye Research</i> , 2014 , 129, 93-106	3.7	76
100	Retinal ganglion cells survival in a glaucoma model by GDNF/Vit E PLGA microspheres prepared according to a novel microencapsulation procedure. <i>Journal of Controlled Release</i> , 2011 , 156, 92-100	11.7	76
99	North Carolina Macular Dystrophy Is Caused by Dysregulation of the Retinal Transcription Factor PRDM13. <i>Ophthalmology</i> , 2016 , 123, 9-18	7.3	73
98	Transplantation of iPSC-derived TM cells rescues glaucoma phenotypes in vivo. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, E3492-500	11.5	68
97	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 , 3, 161	1	68
96	Structural and biochemical analyses of choroidal thickness in human donor eyes 2014 , 55, 1352-60		64
95	Growth kinetics and transplantation of human retinal progenitor cells. <i>Experimental Eye Research</i> , 2009 , 89, 301-10	3.7	60
94	Robust cell integration from co-transplantation of biodegradable MMP2-PLGA microspheres with retinal progenitor cells. <i>Biomaterials</i> , 2011 , 32, 1041-50	15.6	60
93	Two-photon polymerization for production of human iPSC-derived retinal cell grafts. <i>Acta Biomaterialia</i> , 2017 , 55, 385-395	10.8	58
92	Molecular characterization of foveal versus peripheral human retina by single-cell RNA sequencing. <i>Experimental Eye Research</i> , 2019 , 184, 234-242	3.7	58
91	Src and FAK are key early signalling intermediates required for neurite growth in NGF-responsive adult DRG neurons. <i>Cellular Signalling</i> , 2008 , 20, 241-57	4.9	57
90	Basal exon skipping and genetic pleiotropy: A predictive model of disease pathogenesis. <i>Science Translational Medicine</i> , 2015 , 7, 291ra97	17.5	55
89	Stem cells for investigation and treatment of inherited retinal disease. <i>Human Molecular Genetics</i> , 2014 , 23, R9-R16	5.6	54
88	Integrin activation and neurotrophin signaling cooperate to enhance neurite outgrowth in sensory neurons. <i>Journal of Comparative Neurology</i> , 2005 , 486, 267-80	3.4	53

87	Restoration of Aqueous Humor Outflow Following Transplantation of iPSC-Derived Trabecular Meshwork Cells in a Transgenic Mouse Model of Glaucoma 2017 , 58, 2054-2062		52
86	Hypomorphic mutations in TRNT1 cause retinitis pigmentosa with erythrocytic microcytosis. <i>Human Molecular Genetics</i> , 2016 , 25, 44-56	5.6	51
85	Laminin and growth factor receptor activation stimulates differential growth responses in subpopulations of adult DRG neurons. <i>European Journal of Neuroscience</i> , 2006 , 24, 676-90	3.5	50
84	Induction of trabecular meshwork cells from induced pluripotent stem cells 2014 , 55, 7065-72		48
83	Elevated MMP Expression in the MRL Mouse Retina Creates a Permissive Environment for Retinal Regeneration. <i>Investigative Ophthalmology and Visual Science</i> , 2008 , 49, 1686-95		46
82	Müller cell activation, proliferation and migration following laser injury. <i>Molecular Vision</i> , 2009 , 15, 1886-963		46
81	CRISPR-Cas9 genome engineering: Treating inherited retinal degeneration. <i>Progress in Retinal and Eye Research</i> , 2018 , 65, 28-49	20.5	43
80	Molecular response of chorioretinal endothelial cells to complement injury: implications for macular degeneration. <i>Journal of Pathology</i> , 2016 , 238, 446-56	9.4	40
79	Allogenic iPSC-derived RPE cell transplants induce immune response in pigs: a pilot study. <i>Scientific Reports</i> , 2015 , 5, 11791	4.9	40
78	Peripheral sensory axon growth: from receptor binding to cellular signaling. <i>Canadian Journal of Neurological Sciences</i> , 2008 , 35, 551-66	1	40
77	Patient-specific induced pluripotent stem cells to evaluate the pathophysiology of TRNT1-associated Retinitis pigmentosa. <i>Stem Cell Research</i> , 2017 , 21, 58-70	1.6	38
76	Selective accumulation of the complement membrane attack complex in aging choriocapillaris. <i>Experimental Eye Research</i> , 2016 , 146, 393-397	3.7	38
75	Mechanical properties of murine and porcine ocular tissues in compression. <i>Experimental Eye Research</i> , 2014 , 121, 194-9	3.7	38
74	Low-oxygen culture conditions extend the multipotent properties of human retinal progenitor cells. <i>Tissue Engineering - Part A</i> , 2014 , 20, 1465-75	3.9	38
73	Enhanced differentiation and delivery of mouse retinal progenitor cells using a micropatterned biodegradable thin-film polycaprolactone scaffold. <i>Tissue Engineering - Part A</i> , 2015 , 21, 1247-60	3.9	37
72	Combining chondroitinase ABC and growth factors promotes the integration of murine retinal progenitor cells transplanted into Rho(-/-) mice. <i>Molecular Vision</i> , 2011 , 17, 1759-70	2.3	35
71	Monomeric C-reactive protein and inflammation in age-related macular degeneration. <i>Journal of Pathology</i> , 2016 , 240, 173-83	9.4	34
70	Two-photon polymerized poly(caprolactone) retinal cell delivery scaffolds and their systemic and retinal biocompatibility. <i>Acta Biomaterialia</i> , 2019 , 94, 204-218	10.8	32

69	Effect of Molecular Weight and Functionality on Acrylated Poly(caprolactone) for Stereolithography and Biomedical Applications. <i>Biomacromolecules</i> , 2018 , 19, 3682-3692	6.9	32
68	Generating iPSC-Derived Choroidal Endothelial Cells to Study Age-Related Macular Degeneration 2015 , 56, 8258-67		32
67	Choriocapillaris Degeneration in Geographic Atrophy. <i>American Journal of Pathology</i> , 2019 , 189, 1473-1480	4.8	31
66	Feeder-free differentiation of cells exhibiting characteristics of corneal endothelium from human induced pluripotent stem cells. <i>Biology Open</i> , 2018 , 7,	2.2	31
65	Neuronal Differentiation of Induced Pluripotent Stem Cells on Surfactant Templated Chitosan Hydrogels. <i>Biomacromolecules</i> , 2016 , 17, 1684-95	6.9	26
64	Assessment of Adeno-Associated Virus Serotype Tropism in Human Retinal Explants. <i>Human Gene Therapy</i> , 2018 , 29, 424-436	4.8	26
63	Connective Tissue Growth Factor Promotes Efficient Generation of Human Induced Pluripotent Stem Cell-Derived Choroidal Endothelium. <i>Stem Cells Translational Medicine</i> , 2017 , 6, 1533-1546	6.9	25
62	Controlled drug delivery from 3D printed two-photon polymerized poly(ethylene glycol) dimethacrylate devices. <i>International Journal of Pharmaceutics</i> , 2018 , 552, 217-224	6.5	25
61	Using Patient-Specific Induced Pluripotent Stem Cells and Wild-Type Mice to Develop a Gene Augmentation-Based Strategy to Treat CLN3-Associated Retinal Degeneration. <i>Human Gene Therapy</i> , 2016 , 27, 835-846	4.8	24
60	PyMINER Finds Gene and Autocrine-Paracrine Networks from Human Islet scRNA-Seq. <i>Cell Reports</i> , 2019 , 26, 1951-1964.e8	10.6	23
59	Disruption of RPGR protein interaction network is the common feature of RPGR missense variations that cause XLRP. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 1353-1360	11.5	23
58	Using patient-specific induced pluripotent stem cells to interrogate the pathogenicity of a novel retinal pigment epithelium-specific 65 kDa cryptic splice site mutation and confirm eligibility for enrollment into a clinical gene augmentation trial. <i>Translational Research</i> , 2015 , 166, 740-749.e1	11	22
57	A procedure for selecting and culturing subpopulations of neurons from rat dorsal root ganglia using magnetic beads. <i>Brain Research Protocols</i> , 2005 , 16, 50-7		22
56	Preservation of biological activity of glial cell line-derived neurotrophic factor (GDNF) after microencapsulation and sterilization by gamma irradiation. <i>International Journal of Pharmaceutics</i> , 2012 , 436, 545-54	6.5	21
55	CRISPR-Cas9-Based Genome Editing of Human Induced Pluripotent Stem Cells. <i>Current Protocols in Stem Cell Biology</i> , 2018 , 44, 5B.7.1-5B.7.22	2.8	20
54	Natural history of cone disease in the murine model of Leber congenital amaurosis due to CEP290 mutation: determining the timing and expectation of therapy. <i>PLoS ONE</i> , 2014 , 9, e92928	3.7	19
53	Human iPSC Modeling Reveals Mutation-Specific Responses to Gene Therapy in a Genotypically Diverse Dominant Maculopathy. <i>American Journal of Human Genetics</i> , 2020 , 107, 278-292	11	19
52	Single-Cell RNA Sequencing in Human Retinal Degeneration Reveals Distinct Glial Cell Populations. <i>Cells</i> , 2020 , 9,	7.9	18

51	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, 310-6	2.6	17
50	Loss of CD34 expression in aging human choriocapillaris endothelial cells. <i>PLoS ONE</i> , 2014 , 9, e86538	3.7	17
49	Two-Photon Polymerization as a Tool for Studying 3D Printed Topography-Induced Stem Cell Fate. <i>Macromolecular Bioscience</i> , 2019 , 19, e1800370	5.5	17
48	Is age-related macular degeneration a microvascular disease?. <i>Advances in Experimental Medicine and Biology</i> , 2014 , 801, 283-9	3.6	16
47	Pharmacokinetics of intravitreal glial cell line-derived neurotrophic factor: experimental studies in pigs. <i>Experimental Eye Research</i> , 2010 , 91, 890-5	3.7	16
46	Preparation and evaluation of human choroid extracellular matrix scaffolds for the study of cell replacement strategies. <i>Acta Biomaterialia</i> , 2017 , 57, 293-303	10.8	14
45	Correction of NR2E3 Associated Enhanced S-cone Syndrome Patient-specific iPSCs using CRISPR-Cas9. <i>Genes</i> , 2019 , 10,	4.2	14
44	Photoreceptor cells with profound structural deficits can support useful vision in mice 2014 , 55, 1859-66		14
43	Gene therapy using stem cells. <i>Cold Spring Harbor Perspectives in Medicine</i> , 2014 , 5,	5.4	13
42	Concise Review: Patient-Specific Stem Cells to Interrogate Inherited Eye Disease. <i>Stem Cells Translational Medicine</i> , 2016 , 5, 132-40	6.9	13
41	CRISPR-Cas9-Mediated Correction of the 1.02 kb Common Deletion in in Induced Pluripotent Stem Cells from Patients with Batten Disease. <i>CRISPR Journal</i> , 2018 , 1, 75-87	2.5	12
40	Retinal Pigment Epithelium and Müller Progenitor Cell Interaction Increase Müller Progenitor Cell Expression of PDGFR β and Ability to Induce Proliferative Vitreoretinopathy in a Rabbit Model. <i>Stem Cells International</i> , 2012 , 2012, 106486	5	12
39	Wide-Field Swept-Source OCT and Angiography in X-Linked Retinoschisis. <i>Ophthalmology Retina</i> , 2019 , 3, 178-185	3.8	11
38	Evaluation of serum and ocular levels of membrane attack complex and C-reactive protein in CFH-genotyped human donors. <i>Eye</i> , 2018 , 32, 1740-1742	4.4	11
37	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	2.8	11
36	Generation of an immortalized human choroid endothelial cell line (iChEC-1) using an endothelial cell specific promoter. <i>Microvascular Research</i> , 2019 , 123, 50-57	3.7	11
35	Stem cells as tools for studying the genetics of inherited retinal degenerations. <i>Cold Spring Harbor Perspectives in Medicine</i> , 2014 , 5, a017160	5.4	10
34	Bulk and single-cell gene expression analyses reveal aging human choriocapillaris has pro-inflammatory phenotype. <i>Microvascular Research</i> , 2020 , 131, 104031	3.7	10

33	Stepwise differentiation and functional characterization of human induced pluripotent stem cell-derived choroidal endothelial cells. <i>Stem Cell Research and Therapy</i> , 2020 , 11, 409	8.3	9
32	A Method for Sectioning and Immunohistochemical Analysis of Stem Cell-Derived 3-D Organoids. <i>Current Protocols in Stem Cell Biology</i> , 2016 , 37, 1C.19.1-1C.19.11	2.8	9
31	Correlation of Optical Coherence Tomography and Retinal Histology in Normal and Pro23His Retinal Degeneration Pig. <i>Translational Vision Science and Technology</i> , 2018 , 7, 18	3.3	9
30	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	4.8	8
29	Optimizing Donor Cellular Dissociation and Subretinal Injection Parameters for Stem Cell-Based Treatments. <i>Stem Cells Translational Medicine</i> , 2019 , 8, 797-809	6.9	8
28	Spectacle: An interactive resource for ocular single-cell RNA sequencing data analysis. <i>Experimental Eye Research</i> , 2020 , 200, 108204	3.7	8
27	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	2.6	8
26	Single-cell RNA sequencing in vision research: Insights into human retinal health and disease. <i>Progress in Retinal and Eye Research</i> , 2021 , 83, 100934	20.5	8
25	Development of a Molecularly Stable Gene Therapy Vector for the Treatment of -Associated X-Linked Retinitis Pigmentosa. <i>Human Gene Therapy</i> , 2019 , 30, 967-974	4.8	7
24	687. Therapeutic Correction of an LCA-Causing Splice Defect in the CEP290 Gene by CRISPR/Cas-Mediated Genome Editing. <i>Molecular Therapy</i> , 2015 , 23, S273-S274	11.7	5
23	Label-free microfluidic enrichment of photoreceptor cells. <i>Experimental Eye Research</i> , 2020 , 199, 108166	3.7	5
22	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	4.8	5
21	Imidazole Compounds for Protecting Choroidal Endothelial Cells from Complement Injury. <i>Scientific Reports</i> , 2018 , 8, 13387	4.9	4
20	Prevascularized silicon membranes for the enhancement of transport to implanted medical devices. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2016 , 104, 1602-1609	3.5	3
19	Local Factor H production by human choroidal endothelial cells mitigates complement deposition: implications for macular degeneration.. <i>Journal of Pathology</i> , 2022 ,	9.4	3
18	Autologous cell replacement: a noninvasive AI approach to clinical release testing. <i>Journal of Clinical Investigation</i> , 2020 , 130, 608-611	15.9	3
17	Predominance of hyperopia in autosomal dominant Best vitelliform macular dystrophy. <i>British Journal of Ophthalmology</i> , 2020 ,	5.5	3
16	Patient derived stem cells for discovery and validation of novel pathogenic variants in inherited retinal disease. <i>Progress in Retinal and Eye Research</i> , 2021 , 83, 100918	20.5	3

15	Evaluation of sFLT1 protein levels in human eyes with the FLT1 rs9943922 polymorphism. <i>Ophthalmic Genetics</i> , 2018 , 39, 68-72	1.2	2
14	Stem cells in large animal models of retinal and neurological disease. <i>Stem Cells International</i> , 2012 , 2012, 460504	5	2
13	Microfluidic processing of stem cells for autologous cell replacement. <i>Stem Cells Translational Medicine</i> , 2021 , 10, 1384-1393	6.9	2
12	AUTOIMMUNE RETINOPATHY MIMICKING HERITABLE RETINAL DEGENERATION IN A PATIENT WITH COMMON VARIABLE IMMUNE DEFICIENCY. <i>Retinal Cases and Brief Reports</i> , 2019 , 16,	1.1	2
11	Expression of the retina-specific flippase, ABCA4, in epidermal keratinocytes. <i>F1000Research</i> , 2021 , 5, 193	3.6	1
10	Human photoreceptor cells from different macular subregions have distinct transcriptional profiles. <i>Human Molecular Genetics</i> , 2021 , 30, 1543-1558	5.6	1
9	The effect of retinal scaffold modulus on performance during surgical handling. <i>Experimental Eye Research</i> , 2021 , 207, 108566	3.7	1
8	An Unusual Presentation of CLN3-Associated Batten Disease With Classic Histopathologic and Ultrastructural Findings. <i>Journal of Neuropathology and Experimental Neurology</i> , 2021 ,	3.1	1
7	A Safe GDNF and GDNF/BDNF Controlled Delivery System Improves Migration in Human Retinal Pigment Epithelial Cells and Survival in Retinal Ganglion Cells: Potential Usefulness in Degenerative Retinal Pathologies. <i>Pharmaceuticals</i> , 2021 , 14,	5.2	1
6	Label-free microfluidic enrichment of cancer cells from non-cancer cells in ascites. <i>Scientific Reports</i> , 2021 , 11, 18032	4.9	1
5	Correlation of features on OCT with visual acuity and Gass lesion type in Best vitelliform macular dystrophy.. <i>BMJ Open Ophthalmology</i> , 2021 , 6, e000860	3.2	1
4	Intrafamilial Variability of Ocular Manifestations of von Hippel-Lindau Disease. <i>Ophthalmology Retina</i> , 2021 , 6, 89-89	3.8	0
3	Chimeric Helper-Dependent Adenoviruses Transduce Retinal Ganglion Cells and Müller Cells in Human Retinal Explants. <i>Journal of Ocular Pharmacology and Therapeutics</i> , 2021 , 37, 575-579	2.6	0
2	Human Retinal Engineering using 3D PCL Scaffolds. <i>FASEB Journal</i> , 2018 , 32, 816.12	0.9	
1	Using Stem Cells to Rebuild the Outer Neural Retina 2016 , 57, 3521		