Alice Pbay

List of Publications by Year in Descending Order

115 papers	2,772 citations	33 h-index	48 g-index
136 ext. papers	3,525 ext. citations	5.6 avg, IF	4.81 L-index

#	Paper	IF	Citations
115	Cell type-specific manifestations of cortical thickness heterogeneity in schizophrenia.. *Molecular Psychiatry*, **2022**,	15.1	3
114	Cellular pathophysiology of Friedreich's ataxia cardiomyopathy. *International Journal of Cardiology*, **2022**, 346, 71-78	3.2	0
113	Transcriptomic Profiling of Human Pluripotent Stem Cell-derived Retinal Pigment Epithelium over Time. *Genomics, Proteomics and Bioinformatics*, **2021**, 19, 223-242	6.5	4
112	Image-Based Quantitation of Kainic Acid-Induced Excitotoxicity as a Model of Neurodegeneration in Human iPSC-Derived Neurons. *Methods in Molecular Biology*, **2021**, 1	1.4	2
111	CRISPR/Cas-Mediated Knock-in of Genetically Encoded Fluorescent Biosensors into the AAVS1 Locus of Human-Induced Pluripotent Stem Cells. *Methods in Molecular Biology*, **2021**, 1	1.4	1
110	Microglia-like Cells Promote Neuronal Functions in Cerebral Organoids.. *Cells*, **2021**, 11,	7.9	5
109	Single cell eQTL analysis identifies cell type-specific genetic control of gene expression in fibroblasts and reprogrammed induced pluripotent stem cells. *Genome Biology*, **2021**, 22, 76	18.3	16
108	Culture Variabilities of Human iPSC-Derived Cerebral Organoids Are a Major Issue for the Modelling of Phenotypes Observed in Alzheimer's Disease. *Stem Cell Reviews and Reports*, **2021**, 1	7.3	14
107	Generation of a gene-corrected human isogenic iPSC line from an Alzheimer's disease iPSC line carrying the London mutation in APP (V717I). *Stem Cell Research*, **2021**, 53, 102373	1.6	0
106	Genetic variation affects morphological retinal phenotypes extracted from UK Biobank optical coherence tomography images. *PLoS Genetics*, **2021**, 17, e1009497	6	5
105	Automation of Organoid Cultures: Current Protocols and Applications. *SLAS Discovery*, **2021**, 26, 1138-1147	3.4	2
104	The Use of Human Pluripotent Stem Cells (hPSCs) and CRISPR-Mediated Gene Editing in Retinal Diseases. *Essentials in Ophthalmology*, **2021**, 455-466	0.2	
103	Use of CRISPR/Cas ribonucleoproteins for high throughput gene editing of induced pluripotent stem cells. *Methods*, **2021**, 194, 18-29	4.6	3
102	Comparative performance of the BGI and Illumina sequencing technology for single-cell RNA-sequencing. *NAR Genomics and Bioinformatics*, **2020**, 2, lqaa034	3.7	19
101	If Human Brain Organoids Are the Answer to Understanding Dementia, What Are the Questions?. *Neuroscientist*, **2020**, 26, 438-454	7.6	12
100	Animal and Human Models of Retinal Diseases **2020**, 590-613		
99	Engineering domain-inlaid SaCas9 adenine base editors with reduced RNA off-targets and increased on-target DNA editing. *Nature Communications*, **2020**, 11, 4871	17.4	13

98	A Simple Differentiation Protocol for Generation of Induced Pluripotent Stem Cell-Derived Basal Forebrain-Like Cholinergic Neurons for Alzheimer's Disease and Frontotemporal Dementia Disease Modeling. *Cells*, **2020**, 9,	7.9	11
97	Comparison of CRISPR/Cas Endonucleases for Retinal Gene Editing. *Frontiers in Cellular Neuroscience*, **2020**, 14, 570917	6.1	7
96	Mitochondrial Fusion by M1 Promotes Embryoid Body Cardiac Differentiation of Human Pluripotent Stem Cells. *Stem Cells International*, **2019**, 2019, 6380135	5	9
95	PSEN1Δ9, APPswe, and APOE4 Confer Disparate Phenotypes in Human iPSC-Derived Microglia. *Stem Cell Reports*, **2019**, 13, 669-683	8	64
94	Non-invasive in vivo hyperspectral imaging of the retina for potential biomarker use in Alzheimer's disease. *Nature Communications*, **2019**, 10, 4227	17.4	77
93	Optimization of silk fibroin membranes for retinal implantation. *Materials Science and Engineering C* , **2019**, 105, 110131	8.3	8
92	Bio-engineering a tissue flap utilizing a porous scaffold incorporating a human induced pluripotent stem cell-derived endothelial cell capillary network connected to a vascular pedicle. *Acta Biomaterialia*, **2019**, 94, 281-294	10.8	9
91	A Need for Better Understanding Is the Major Determinant for Public Perceptions of Human Gene Editing. *Human Gene Therapy*, **2019**, 30, 36-43	4.8	23
90	Utility of Self-Destructing CRISPR/Cas Constructs for Targeted Gene Editing in the Retina. *Human Gene Therapy*, **2019**, 30, 1349-1360	4.8	13
89	Human pluripotent stem cells for the modelling of diseases of the retina and optic nerve: toward a retina in a dish. *Current Opinion in Pharmacology*, **2019**, 48, 114-119	5.1	7
88	Screening of CRISPR/Cas base editors to target the AMD high-risk Y402H complement factor H variant. *Molecular Vision*, **2019**, 25, 174-182	2.3	3
87	Genotype-free demultiplexing of pooled single-cell RNA-seq. *Genome Biology*, **2019**, 20, 290	18.3	19
86	Differentiation of Retinal Glial Cells From Human Embryonic Stem Cells by Promoting the Notch Signaling Pathway. *Frontiers in Cellular Neuroscience*, **2019**, 13, 527	6.1	7
85	Maintenance of Human Embryonic Stem Cells by Sphingosine-1-Phosphate and Platelet-Derived Growth Factor. *Methods in Molecular Biology*, **2018**, 1697, 133-140	1.4	3
84	Role of lysophosphatidic acid in the retinal pigment epithelium and photoreceptors. *Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids*, **2018**, 1863, 750-761	5	16
83	Single cell RNA sequencing of stem cell-derived retinal ganglion cells. *Scientific Data*, **2018**, 5, 180013	8.2	29
82	Biologically active constituents of the secretome of human W8B2 cardiac stem cells. *Scientific Reports*, **2018**, 8, 1579	4.9	13
81	Mitochondrial fission protein Drp1 inhibition promotes cardiac mesodermal differentiation of human pluripotent stem cells. *Cell Death Discovery*, **2018**, 4, 39	6.9	44

80	Automated Cell Culture Systems and Their Applications to Human Pluripotent Stem Cell Studies. *SLAS Technology*, **2018**, 23, 315-325	3	26
79	Longitudinal expression profiling of CD4+ and CD8+ cells in patients with active to quiescent giant cell arteritis. *BMC Medical Genomics*, **2018**, 11, 61	3.7	8
78	Human fibroblast and stem cell resource from the Dominantly Inherited Alzheimer Network. *Alzheimer's Research and Therapy*, **2018**, 10, 69	9	11
77	The current state of stem cell therapy for ocular disease. *Experimental Eye Research*, **2018**, 177, 65-75	3.7	13
76	Single-Cell Profiling Identifies Key Pathways Expressed by iPSCs Cultured in Different Commercial Media. *IScience*, **2018**, 7, 30-39	6.1	12
75	Roles of lysophosphatidic acid and sphingosine-1-phosphate in stem cell biology. *Progress in Lipid Research*, **2018**, 72, 42-54	14.3	18
74	Generation of a human induced pluripotent stem cell line CERAi001-A-6 using episomal vectors. *Stem Cell Research*, **2017**, 22, 13-15	1.6	1
73	Development of a Modular Automated System for Maintenance and Differentiation of Adherent Human Pluripotent Stem Cells. *SLAS Discovery*, **2017**, 22, 1016-1025	3.4	22
72	Drusen in patient-derived hiPSC-RPE models of macular dystrophies. *Proceedings of the National Academy of Sciences of the United States of America*, **2017**, 114, E8214-E8223	11.5	57
71	Mitochondrial replacement in an iPSC model of Leber's hereditary optic neuropathy. *Aging*, **2017**, 9, 1341-1350	5.6	35
70	Friedreich's ataxia induced pluripotent stem cell-derived cardiomyocytes display electrophysiological abnormalities and calcium handling deficiency. *Aging*, **2017**, 9, 1440-1452	5.6	20
69	The Immortal Life of Ethics? The Alienation of Body Tissue, Ethics and the Informed Consent Procedure Within Induced Pluripotent Stem Cell Research **2017**, 61-87		1
68	Lysophosphatidic Acid and Sphingosine-1-Phosphate in Pluripotent Stem Cells. *Pancreatic Islet Biology*, **2017**, 1-9	0.4	
67	Role of ectonucleotide pyrophosphatase/phosphodiesterase 2 in the midline axis formation of zebrafish. *Scientific Reports*, **2016**, 6, 37678	4.9	7
66	Enriched retinal ganglion cells derived from human embryonic stem cells. *Scientific Reports*, **2016**, 6, 30552	4.9	59
65	Participant understanding and recall of informed consent for induced pluripotent stem cell biobanking. *Cell and Tissue Banking*, **2016**, 17, 449-56	2.2	19
64	Defined Medium Conditions for the Induction and Expansion of Human Pluripotent Stem Cell-Derived Retinal Pigment Epithelium. *Stem Cell Reviews and Reports*, **2016**, 12, 179-88	6.4	19
63	Using human pluripotent stem cells to study Friedreich ataxia cardiomyopathy. *International Journal of Cardiology*, **2016**, 212, 37-43	3.2	4

62	Study of Gap Junctions in Human Embryonic Stem Cells. *Methods in Molecular Biology*, **2016**, 1307, 105-21	1.4	2
61	Enhancing Human Cardiomyocyte Differentiation from Induced Pluripotent Stem Cells with Trichostatin A. *Methods in Molecular Biology*, **2016**, 1357, 415-21	1.4	5
60	Study of mitochondrial respiratory defects on reprogramming to human induced pluripotent stem cells. *Aging*, **2016**, 8, 945-57	5.6	33
59	Electrical Stimulation Promotes Cardiac Differentiation of Human Induced Pluripotent Stem Cells. *Stem Cells International*, **2016**, 2016, 1718041	5	57
58	AAV-Mediated CRISPR/Cas Gene Editing of Retinal Cells In Vivo **2016**, 57, 3470-6		97
57	Genome engineering in ophthalmology: Application of CRISPR/Cas to the treatment of eye disease. *Progress in Retinal and Eye Research*, **2016**, 53, 1-20	20.5	36
56	An Interactive Multimedia Approach to Improving Informed Consent for Induced Pluripotent Stem Cell Research. *Cell Stem Cell*, **2016**, 18, 307-8	18	27
55	Targeted therapeutic mild hypercapnia after cardiac arrest: A phase II multi-centre randomised controlled trial (the CCC trial). *Resuscitation*, **2016**, 104, 83-90	4	83
54	A Global Social Media Survey of Attitudes to Human Genome Editing. *Cell Stem Cell*, **2016**, 18, 569-72	18	56
53	ALPK3-deficient cardiomyocytes generated from patient-derived induced pluripotent stem cells and mutant human embryonic stem cells display abnormal calcium handling and establish that ALPK3 deficiency underlies familial cardiomyopathy. *European Heart Journal*, **2016**, 37, 2586-90	9.5	28
52	Decreased anti-regenerative effects after spinal cord injury in spry4-/- mice. *Neuroscience*, **2015**, 287, 104-12	3.9	6
51	Characterization of the retinal pigment epithelium in Friedreich ataxia. *Biochemistry and Biophysics Reports*, **2015**, 4, 141-147	2.2	5
50	Generation of Integration-free Human Induced Pluripotent Stem Cells Using Hair-derived Keratinocytes. *Journal of Visualized Experiments*, **2015**, e53174	1.6	5
49	Cardiac Repair With a Novel Population of Mesenchymal Stem Cells Resident in the Human Heart. *Stem Cells*, **2015**, 33, 3100-13	5.8	39
48	Fgf2 improves functional recovery-decreasing gliosis and increasing radial glia and neural progenitor cells after spinal cord injury. *Brain and Behavior*, **2014**, 4, 187-200	3.4	61
47	Cell and gene therapy for Friedreich ataxia: progress to date. *Human Gene Therapy*, **2014**, 25, 684-93	4.8	23
46	Complexities of lysophospholipid signalling in glioblastoma. *Journal of Clinical Neuroscience*, **2014**, 21, 893-8	2.2	10
45	Methods of Retinal Ganglion Cell Differentiation From Pluripotent Stem Cells. *Translational Vision Science and Technology*, **2014**, 3, 2	3.3	10

44	Anti-lysophosphatidic acid antibodies improve traumatic brain injury outcomes. *Journal of Neuroinflammation*, **2014**, 11, 37	10.1	58
43	Human pluripotent stem cell strategies for age-related macular degeneration. *Optometry and Vision Science*, **2014**, 91, 887-93	2.1	5
42	Methods of Retinal Ganglion Cell Differentiation From Pluripotent Stem Cells. *Translational Vision Science and Technology*, **2014**, 3, 7	3.3	36
41	Rho/ROCK pathway is essential to the expansion, differentiation, and morphological rearrangements of human neural stem/progenitor cells induced by lysophosphatidic acid. *Journal of Lipid Research*, **2013**, 54, 1192-206	6.3	33
40	Pluripotent stem cell-based models to investigate retinal pigmented epithelium function and disease. *Drug Discovery Today: Disease Models*, **2013**, 10, e231-e236	1.3	
39	Growth Factors and the Serum-Free Culture of Human Pluripotent Stem Cells **2013**, 357-363		
38	Trichostatin A enhances differentiation of human induced pluripotent stem cells to cardiogenic cells for cardiac tissue engineering. *Stem Cells Translational Medicine*, **2013**, 2, 715-25	6.9	42
37	Blockage of lysophosphatidic acid signaling improves spinal cord injury outcomes. *American Journal of Pathology*, **2012**, 181, 978-92	5.8	52
36	In vivo tissue engineering chamber supports human induced pluripotent stem cell survival and rapid differentiation. *Biochemical and Biophysical Research Communications*, **2012**, 422, 75-9	3.4	18
35	Maintenance of human embryonic stem cells by sphingosine-1-phosphate and platelet-derived growth factor. *Methods in Molecular Biology*, **2012**, 874, 167-75	1.4	6
34	Biological effects of lysophosphatidic acid in the nervous system. *International Review of Cell and Molecular Biology*, **2012**, 296, 273-322	6	32
33	Stimulation of Activin A/Nodal signaling is insufficient to induce definitive endoderm formation of cord blood-derived unrestricted somatic stem cells. *Stem Cell Research and Therapy*, **2011**, 2, 16	8.3	9
32	Late passage human fibroblasts induced to pluripotency are capable of directed neuronal differentiation. *Cell Transplantation*, **2011**, 20, 193-203	4	16
31	Modulation of LPA receptor expression in the human brain following neurotrauma. *Cellular and Molecular Neurobiology*, **2011**, 31, 569-77	4.6	35
30	Generation of induced pluripotent stem cell lines from Friedreich ataxia patients. *Stem Cell Reviews and Reports*, **2011**, 7, 703-13	6.4	84
29	Molecular mechanism involved in the maintenance of pluripotent stem cells. *Journal of Stem Cells*, **2011**, 6, 213-32		2
28	Study of gap junctions in human embryonic stem cells. *Methods in Molecular Biology*, **2010**, 584, 211-28	1.4	6
27	LPA receptor expression in the central nervous system in health and following injury. *Cell and Tissue Research*, **2010**, 341, 23-32	4.2	36

26	G-protein coupled receptors in stem cell self-renewal and differentiation. *Stem Cell Reviews and Reports*, **2010**, 6, 351-66	6.4	19
25	Gli1 is an inducing factor in generating floor plate progenitor cells from human embryonic stem cells. *Stem Cells*, **2010**, 28, 1805-15	5.8	20
24	Small-molecule induction of neural crest-like cells derived from human neural progenitors. *Stem Cells*, **2009**, 27, 2896-905	5.8	63
23	Neural Differentiation of Human Embryonic Stem Cells. *Springer Protocols*, **2009**, 75-86	0.3	1
22	Regulation of stem cell pluripotency and neural differentiation by lysophospholipids. *NeuroSignals*, **2009**, 17, 242-54	1.9	50
21	A New Feeder-Free Technique to Expand Human Embryonic Stem Cells and Induced Pluripotent Stem Cells. *Open Stem Cell Journal*, **2009**, 1, 76-82	2	3
20	Growth Factors and the Serum-free Culture of Human Pluripotent Stem Cells **2009**, 391-395		
19	Acute effect of endothelins on intercellular communication of human embryonic stem cells. *Journal of Stem Cells*, **2009**, 4, 47-56		2
18	Role of gap junctions in embryonic and somatic stem cells. *Stem Cell Reviews and Reports*, **2008**, 4, 283-92	6.4	62
17	Lysophosphatidic acid inhibits neuronal differentiation of neural stem/progenitor cells derived from human embryonic stem cells. *Stem Cells*, **2008**, 26, 1146-54	5.8	62
16	Stem cell regulation by lysophospholipids. *Prostaglandins and Other Lipid Mediators*, **2007**, 84, 83-97	3.7	82
15	Anti-apoptotic effect of sphingosine-1-phosphate and platelet-derived growth factor in human embryonic stem cells. *Stem Cells and Development*, **2007**, 16, 989-1001	4.4	57
14	Gap junctions modulate apoptosis and colony growth of human embryonic stem cells maintained in a serum-free system. *Biochemical and Biophysical Research Communications*, **2006**, 344, 181-8	3.4	49
13	A role for neurotrophins in embryonic stem cell growth. *Developmental Cell*, **2006**, 10, 158-9	10.2	1
12	S1P inhibits gap junctions in astrocytes: involvement of G and Rho GTPase/ROCK. *European Journal of Neuroscience*, **2006**, 23, 1453-64	3.5	65
11	Essential roles of sphingosine-1-phosphate and platelet-derived growth factor in the maintenance of human embryonic stem cells. *Stem Cells*, **2005**, 23, 1541-8	5.8	160
10	Growth Factors and the Serum-free Culture of Human Pluripotent Stem Cells **2004**, 529-534		
9	Presence of functional gap junctions in human embryonic stem cells. *Stem Cells*, **2004**, 22, 883-9	5.8	73

8	Sphingosine-1-phosphate induces proliferation of astrocytes: regulation by intracellular signalling cascades. *European Journal of Neuroscience*, **2001**, 13, 2067-2076	3.5	107
7	Pleiotropic effects of lysophosphatidic acid on striatal astrocytes. *Glia*, **1999**, 28, 25-33	9	28
6	Genotype-free demultiplexing of pooled single-cell RNA-seq		5
5	Mitochondrial replacement in an iPSC model of Leber hereditary optic neuropathy		1
4	Single cell eQTL analysis identifies cell type-specific genetic control of gene expression in fibroblasts and reprogrammed induced pluripotent stem cells		5
3	Efficacy and dynamics of self-targeting CRISPR/Cas constructs for gene editing in the retina		1
2	Comparative performance of the BGI and Illumina sequencing technology for single-cell RNA-sequencing		3
1	Microglia Orchestrate Neuronal Activity in Brain Organoids. *SSRN Electronic Journal*,	1	1