Bikash R Pattnaik

List of Publications by Citations

42 papers	1,379 citations	19 h-index	37 g-index
54 ext. papers	1,713 ext. citations	5.9 avg, IF	4.13 L-index

#	Paper	IF	Citations
42	Optic vesicle-like structures derived from human pluripotent stem cells facilitate a customized approach to retinal disease treatment. *Stem Cells*, **2011**, 29, 1206-18	5.8	321
41	iPS cell modeling of Best disease: insights into the pathophysiology of an inherited macular degeneration. *Human Molecular Genetics*, **2013**, 22, 593-607	5.6	176
40	A biodegradable nanocapsule delivers a Cas9 ribonucleoprotein complex for in vivo genome editing. *Nature Nanotechnology*, **2019**, 14, 974-980	28.7	136
39	Terpenoids from Zingiber officinale (Ginger) induce apoptosis in endometrial cancer cells through the activation of p53. *PLoS ONE*, **2012**, 7, e53178	3.7	86
38	CTRP5 is a membrane-associated and secretory protein in the RPE and ciliary body and the S163R mutation of CTRP5 impairs its secretion. *Investigative Ophthalmology and Visual Science*, **2006**, 47, 5505-13		63
37	GABAC receptors are localized with microtubule-associated protein 1B in mammalian cone photoreceptors. *Journal of Neuroscience*, **2000**, 20, 6789-96	6.6	63
36	GABAA and GABAC receptors in adult porcine cones: evidence from a photoreceptor-glia co-culture model. *Journal of Physiology*, **1998**, 513 (Pt 1), 33-42	3.9	57
35	A Novel Approach to Single Cell RNA-Sequence Analysis Facilitates In Silico Gene Reporting of Human Pluripotent Stem Cell-Derived Retinal Cell Types. *Stem Cells*, **2018**, 36, 313-324	5.8	37
34	A Novel KCNJ13 Nonsense Mutation and Loss of Kir7.1 Channel Function Causes Leber Congenital Amaurosis (LCA16). *Human Mutation*, **2015**, 36, 720-7	4.7	34
33	High glucose promotes the migration of retinal pigment epithelial cells through increased oxidative stress and PEDF expression. *American Journal of Physiology - Cell Physiology*, **2016**, 311, C418-36	5.4	34
32	Mouse mutation reveals a mechanism involving mitochondrial dynamics that leads to age-dependent retinal pathologies. *ELife*, **2016**, 5,	8.9	32
31	A pH-responsive silica-metal-organic framework hybrid nanoparticle for the delivery of hydrophilic drugs, nucleic acids, and CRISPR-Cas9 genome-editing machineries. *Journal of Controlled Release*, **2020**, 324, 194-203	11.7	29
30	Genetic defects in the hotspot of inwardly rectifying K(+) (Kir) channels and their metabolic consequences: a review. *Molecular Genetics and Metabolism*, **2012**, 105, 64-72	3.7	27
29	Snowflake vitreoretinal degeneration (SVD) mutation R162W provides new insights into Kir7.1 ion channel structure and function. *PLoS ONE*, **2013**, 8, e71744	3.7	26
28	Role of the sigma-1 receptor chaperone in rod and cone photoreceptor degenerations in a mouse model of retinitis pigmentosa. *Molecular Neurodegeneration*, **2017**, 12, 68	19	24
27	Regulation of Kir channels in bovine retinal pigment epithelial cells by phosphatidylinositol 4,5-bisphosphate. *American Journal of Physiology - Cell Physiology*, **2009**, 297, C1001-11	5.4	24
26	Effects of KCNQ channel modulators on the M-type potassium current in primate retinal pigment epithelium. *American Journal of Physiology - Cell Physiology*, **2012**, 302, C821-33	5.4	23

25	Focus on Kir7.1: physiology and channelopathy. *Channels*, **2014**, 8, 488-95	3	22
24	Human iPSC Modeling Reveals Mutation-Specific Responses to Gene Therapy in a Genotypically Diverse Dominant Maculopathy. *American Journal of Human Genetics*, **2020**, 107, 278-292	11	19
23	Gene Augmentation and Readthrough Rescue Channelopathy in an iPSC-RPE Model of Congenital Blindness. *American Journal of Human Genetics*, **2019**, 104, 310-318	11	18
22	Oxytocin expression and function in the posterior retina: a novel signaling pathway. *Investigative Ophthalmology and Visual Science*, **2015**, 56, 751-60		17
21	Abnormal Electroretinogram after Kir7.1 Channel Suppression Suggests Role in Retinal Electrophysiology. *Scientific Reports*, **2017**, 7, 10651	4.9	16
20	Novel anti-angiogenic PEDF-derived small peptides mitigate choroidal neovascularization. *Experimental Eye Research*, **2019**, 188, 107798	3.7	14
19	Photoreceptor protection via blockade of BET epigenetic readers in a murine model of inherited retinal degeneration. *Journal of Neuroinflammation*, **2017**, 14, 14	10.1	14
18	Oxytocin (OXT)-stimulated inhibition of Kir7.1 activity is through PIP-dependent Ca response of the oxytocin receptor in the retinal pigment epithelium in vitro. *Cellular Signalling*, **2017**, 37, 93-102	4.9	13
17	Potential independent action of sigma receptor ligands through inhibition of the Kv2.1 channel. *Oncotarget*, **2017**, 8, 59345-59358	3.3	9
16	Loss of Chondroitin Sulfate Modification Causes Inflammation and Neurodegeneration in Mice. *Genetics*, **2020**, 214, 121-134	4	9
15	In vivo targeted delivery of nucleic acids and CRISPR genome editors enabled by GSH-responsive silica nanoparticles. *Journal of Controlled Release*, **2021**, 336, 296-309	11.7	6
14	Plumbagin-induced oxidative stress leads to inhibition of Na/K-ATPase (NKA) in canine cancer cells. *Scientific Reports*, **2019**, 9, 11471	4.9	4
13	Modulation of Tmem135 Leads to Retinal Pigmented Epithelium Pathologies in Mice **2020**, 61, 16		4
12	Vigabatrin-Induced Retinal Functional Alterations and Second-Order Neuron Plasticity in C57BL/6J Mice **2020**, 61, 17		3
11	Cell line donor genotype and its influence on experimental phenotype: Toll-like receptor SNPs and potential variability in innate immunity. *Molecular Genetics and Metabolism*, **2016**, 118, 147-152	3.7	3
10	Neurotensin and neurotensin receptor 1 mRNA expression in song-control regions changes during development in male zebra finches. *Developmental Neurobiology*, **2018**, 78, 671-686	3.2	2
9	Mouse retinal pigment epithelial cells exhibit a thiocyanate-selective conductance. *American Journal of Physiology - Cell Physiology*, **2018**, 315, C457-C473	5.4	2
8	Pregnancy-adapted uterine artery endothelial cell Ca2+ signaling and its relationship with membrane potential. *Physiological Reports*, **2017**, 5, e13452	2.6	2

7	A mutation in transmembrane protein 135 impairs lipid metabolism in mouse eyecups.. *Scientific Reports*, **2022**, 12, 756	4.9	2
6	Human iPSC modeling reveals mutation-specific responses to gene therapy in Best disease		2
5	Sensing through Non-Sensing Ocular Ion Channels. *International Journal of Molecular Sciences*, **2020**, 21,	6.3	2
4	Oxidative stress induced by the anti-cancer agents, plumbagin, and atovaquone, inhibits ion transport through Na/K-ATPase. *Scientific Reports*, **2020**, 10, 19585	4.9	1
3	Retinal Development and Pathophysiology in Kcnj13 Knockout Mice.. *Frontiers in Cell and Developmental Biology*, **2021**, 9, 810020	5.7	0
2	Hypoxic-ischemic injury causes functional and structural neurovascular degeneration in the juvenile mouse retina. *Scientific Reports*, **2021**, 11, 12670	4.9	0
1	The Visual System **2007**, 1-4		