

Bikash R Pattnaik

List of Publications by Year in descending order

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Version: 2024-02-01

48
papers

1,981
citations

331670

21
h-index

289244

40
g-index

54
all docs

54
docs citations

54
times ranked

2800
citing authors

#	ARTICLE	IF	CITATIONS
1	Optic Vesicle-like Structures Derived from Human Pluripotent Stem Cells Facilitate a Customized Approach to Retinal Disease Treatment. <i>Stem Cells</i> , 2011, 29, 1206-1218.	3.2	413
2	A biodegradable nanocapsule delivers a Cas9 ribonucleoprotein complex for in vivo genome editing. <i>Nature Nanotechnology</i> , 2019, 14, 974-980.	31.5	252
3	iPS cell modeling of Best disease: insights into the pathophysiology of an inherited macular degeneration. <i>Human Molecular Genetics</i> , 2013, 22, 593-607.	2.9	194
4	Terpenoids from <i>Zingiber officinale</i> (Ginger) Induce Apoptosis in Endometrial Cancer Cells through the Activation of p53. <i>PLoS ONE</i> , 2012, 7, e53178.	2.5	112
5	CTRP5 Is a Membrane-Associated and Secretory Protein in the RPE and Ciliary Body and the S163R Mutation of CTRP5 Impairs Its Secretion. , 2006, 47, 5505.		74
6	GABAC Receptors Are Localized with Microtubule-Associated Protein 1B in Mammalian Cone Photoreceptors. <i>Journal of Neuroscience</i> , 2000, 20, 6789-6796.	3.6	64
7	GABA and GABAC receptors in adult porcine cones: evidence from a photoreceptor-glia co-culture model. <i>Journal of Physiology</i> , 1998, 513, 33-42.	2.9	63
8	A pH-responsive silica-metal-organic framework hybrid nanoparticle for the delivery of hydrophilic drugs, nucleic acids, and CRISPR-Cas9 genome-editing machineries. <i>Journal of Controlled Release</i> , 2020, 324, 194-203.	9.9	55
9	A Novel Approach to Single Cell RNA-Sequence Analysis Facilitates In Silico Gene Reporting of Human Pluripotent Stem Cell-Derived Retinal Cell Types. <i>Stem Cells</i> , 2018, 36, 313-324.	3.2	54
10	High glucose promotes the migration of retinal pigment epithelial cells through increased oxidative stress and PEDF expression. <i>American Journal of Physiology - Cell Physiology</i> , 2016, 311, C418-C436.	4.6	51
11	A Novel <i>KCNJ13</i> Nonsense Mutation and Loss of Kir7.1 Channel Function Causes Leber Congenital Amaurosis (LCA16). <i>Human Mutation</i> , 2015, 36, 720-727.	2.5	46
12	In vivo targeted delivery of nucleic acids and CRISPR genome editors enabled by GSH-responsive silica nanoparticles. <i>Journal of Controlled Release</i> , 2021, 336, 296-309.	9.9	42
13	Mouse <i>Tmem135</i> mutation reveals a mechanism involving mitochondrial dynamics that leads to age-dependent retinal pathologies. <i>ELife</i> , 2016, 5, .	6.0	38
14	Gene Augmentation and Readthrough Rescue Channelopathy in an iPSC-RPE Model of Congenital Blindness. <i>American Journal of Human Genetics</i> , 2019, 104, 310-318.	6.2	36
15	Snowflake Vitreoretinal Degeneration (SVD) Mutation R162W Provides New Insights into Kir7.1 Ion Channel Structure and Function. <i>PLoS ONE</i> , 2013, 8, e71744.	2.5	36
16	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.	6.2	35
17	Genetic defects in the hotspot of inwardly rectifying K ⁺ (Kir) channels and their metabolic consequences: A review. <i>Molecular Genetics and Metabolism</i> , 2012, 105, 64-72.	1.1	34
18	Focus on K _{ir} 7.1: physiology and channelopathy. <i>Channels</i> , 2014, 8, 488-495.	2.8	30

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19	Role of the sigma-1 receptor chaperone in rod and cone photoreceptor degenerations in a mouse model of retinitis pigmentosa. <i>Molecular Neurodegeneration</i> , 2017, 12, 68.	10.8	30
20	Regulation of Kir channels in bovine retinal pigment epithelial cells by phosphatidylinositol 4,5-bisphosphate. <i>American Journal of Physiology - Cell Physiology</i> , 2009, 297, C1001-C1011.	4.6	29
21	Effects of KCNQ channel modulators on the M-type potassium current in primate retinal pigment epithelium. <i>American Journal of Physiology - Cell Physiology</i> , 2012, 302, C821-C833.	4.6	29
22	Oxytocin Expression and Function in the Posterior Retina: A Novel Signaling Pathway. <i>Investigative Ophthalmology and Visual Science</i> , 2015, 56, 751-760.	3.3	28
23	Oxytocin (OXT)-stimulated inhibition of Kir7.1 activity is through PIP 2 -dependent Ca ²⁺ response of the oxytocin receptor in the retinal pigment epithelium in vitro. <i>Cellular Signalling</i> , 2017, 37, 93-102.	3.6	25
24	Abnormal Electroretinogram after Kir7.1 Channel Suppression Suggests Role in Retinal Electrophysiology. <i>Scientific Reports</i> , 2017, 7, 10651.	3.3	24
25	Novel anti-angiogenic PEDF-derived small peptides mitigate choroidal neovascularization. <i>Experimental Eye Research</i> , 2019, 188, 107798.	2.6	24
26	Photoreceptor protection via blockade of BET epigenetic readers in a murine model of inherited retinal degeneration. <i>Journal of Neuroinflammation</i> , 2017, 14, 14.	7.2	22
27	The Natural Product Î²-Escin Targets Cancer and Stromal Cells of the Tumor Microenvironment to Inhibit Ovarian Cancer Metastasis. <i>Cancers</i> , 2021, 13, 3931.	3.7	20
28	Loss of Chondroitin Sulfate Modification Causes Inflammation and Neurodegeneration in <i>skt</i> Mice. <i>Genetics</i> , 2020, 214, 121-134.	2.9	18
29	Potential independent action of sigma receptor ligands through inhibition of the Kv2.1 channel. <i>Oncotarget</i> , 2017, 8, 59345-59358.	1.8	14
30	Sensing through Non-Sensing Ocular Ion Channels. <i>International Journal of Molecular Sciences</i> , 2020, 21, 6925.	4.1	11
31	Vigabatrin-Induced Retinal Functional Alterations and Second-Order Neuron Plasticity in C57BL/6J Mice. , 2020, 61, 17.		11
32	Plumbagin-induced oxidative stress leads to inhibition of Na ⁺ /K ⁺ -ATPase (NKA) in canine cancer cells. <i>Scientific Reports</i> , 2019, 9, 11471.	3.3	10
33	Oxidative stress induced by the anti-cancer agents, plumbagin, and atovaquone, inhibits ion transport through Na ⁺ /K ⁺ -ATPase. <i>Scientific Reports</i> , 2020, 10, 19585.	3.3	7
34	Modulation of <i>Tmem135</i> Leads to Retinal Pigmented Epithelium Pathologies in Mice. , 2020, 61, 16.		7
35	A mutation in transmembrane protein 135 impairs lipid metabolism in mouse eyecups. <i>Scientific Reports</i> , 2022, 12, 756.	3.3	7
36	Kir7.1 disease mutant T153I within the inner pore affects K ⁺ conduction. <i>American Journal of Physiology - Cell Physiology</i> , 2022, 323, C56-C68.	4.6	7

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37	Hypoxicâ€“ischemic injury causes functional and structural neurovascular degeneration in the juvenile mouse retina. <i>Scientific Reports</i> , 2021, 11, 12670.	3.3	5
38	In situ autofluorescence lifetime assay of a photoreceptor stimulus response in mouse retina and human retinal organoids. <i>Biomedical Optics Express</i> , 2022, 13, 3476.	2.9	5
39	Cell line donor genotype and its influence on experimental phenotype: Toll-like receptor SNPs and potential variability in innate immunity. <i>Molecular Genetics and Metabolism</i> , 2016, 118, 147-152.	1.1	3
40	Pregnancyâ€“adapted uterine artery endothelial cell Ca ²⁺ signaling and its relationship with membrane potential. <i>Physiological Reports</i> , 2017, 5, e13452.	1.7	3
41	Mouse retinal pigment epithelial cells exhibit a thiocyanate-selective conductance. <i>American Journal of Physiology - Cell Physiology</i> , 2018, 315, C457-C473.	4.6	3
42	Neurotensin and neurotensin receptor 1 mRNA expression in songâ€“control regions changes during development in male zebra finches. <i>Developmental Neurobiology</i> , 2018, 78, 671-686.	3.0	2
43	Retinal Development and Pathophysiology in Kcnj13 Knockout Mice. <i>Frontiers in Cell and Developmental Biology</i> , 2021, 9, 810020.	3.7	2
44	700: Pregnancy-enhanced changes in membrane potential are not driven by pregnancy-enhanced Ca ²⁺ signaling in uterine artery endothelial cells (UAEC). <i>American Journal of Obstetrics and Gynecology</i> , 2014, 210, S344-S345.	1.3	0
45	Sideâ€“Chain Polarity of Amino Acids within the Kir7.1 Channel Pore Lining Determine Permeability and Function. <i>FASEB Journal</i> , 2021, 35, .	0.5	0
46	The Visual System. , 2007, , 1-4.		0
47	Does a Lack of Oxytocinergic Signaling in the Alveolar Epithelial Cell Contribute to Development of Respiratory Distress in Preterm Infants?. <i>Pediatrics</i> , 2016, 137, 436A-436A.	2.1	0
48	Polarized Expression of Kir7.1 Channels in a 3D Organoid Culture Model. <i>FASEB Journal</i> , 2019, 33, .	0.5	0