

# Bikash R Pattnaik

## List of Publications by Year in Descending Order

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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.

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

| #  | Paper  | IF   | Citations |
|----|--|------|-----------|
| 42 | A mutation in transmembrane protein 135 impairs lipid metabolism in mouse eyecups.. <i>Scientific Reports</i> , <b>2022</b> , 12, 756  | 4.9  | 2         |
| 41 | Retinal Development and Pathophysiology in Kcnj13 Knockout Mice.. <i>Frontiers in Cell and Developmental Biology</i> , <b>2021</b> , 9, 810020   | 5.7  | 0         |
| 40 | Hypoxic-ischemic injury causes functional and structural neurovascular degeneration in the juvenile mouse retina. <i>Scientific Reports</i> , <b>2021</b> , 11, 12670  | 4.9  | 0         |
| 39 | In vivo targeted delivery of nucleic acids and CRISPR genome editors enabled by GSH-responsive silica nanoparticles. <i>Journal of Controlled Release</i> , <b>2021</b> , 336, 296-309   | 11.7 | 6         |
| 38 | 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> , <b>2020</b> , 324, 194-203 | 11.7 | 29        |
| 37 | Vigabatrin-Induced Retinal Functional Alterations and Second-Order Neuron Plasticity in C57BL/6J Mice <b>2020</b> , 61, 17   |      | 3         |
| 36 | Loss of Chondroitin Sulfate Modification Causes Inflammation and Neurodegeneration in Mice. <i>Genetics</i> , <b>2020</b> , 214, 121-134   | 4    | 9         |
| 35 | Sensing through Non-Sensing Ocular Ion Channels. <i>International Journal of Molecular Sciences</i> , <b>2020</b> , 21,  | 6.3  | 2         |
| 34 | Oxidative stress induced by the anti-cancer agents, plumbagin, and atovaquone, inhibits ion transport through Na/K-ATPase. <i>Scientific Reports</i> , <b>2020</b> , 10, 19585   | 4.9  | 1         |
| 33 | Human iPSC Modeling Reveals Mutation-Specific Responses to Gene Therapy in a Genotypically Diverse Dominant Maculopathy. <i>American Journal of Human Genetics</i> , <b>2020</b> , 107, 278-292  | 11   | 19        |
| 32 | Modulation of Tmem135 Leads to Retinal Pigmented Epithelium Pathologies in Mice <b>2020</b> , 61, 16   |      | 4         |
| 31 | A biodegradable nanocapsule delivers a Cas9 ribonucleoprotein complex for in vivo genome editing. <i>Nature Nanotechnology</i> , <b>2019</b> , 14, 974-980   | 28.7 | 136       |
| 30 | Gene Augmentation and Readthrough Rescue Channelopathy in an iPSC-RPE Model of Congenital Blindness. <i>American Journal of Human Genetics</i> , <b>2019</b> , 104, 310-318  | 11   | 18        |
| 29 | Plumbagin-induced oxidative stress leads to inhibition of Na/K-ATPase (NKA) in canine cancer cells. <i>Scientific Reports</i> , <b>2019</b> , 9, 11471   | 4.9  | 4         |
| 28 | Novel anti-angiogenic PEDF-derived small peptides mitigate choroidal neovascularization. <i>Experimental Eye Research</i> , <b>2019</b> , 188, 107798  | 3.7  | 14        |
| 27 | Neurotensin and neurotensin receptor 1 mRNA expression in song-control regions changes during development in male zebra finches. <i>Developmental Neurobiology</i> , <b>2018</b> , 78, 671-686   | 3.2  | 2         |
| 26 | Mouse retinal pigment epithelial cells exhibit a thiocyanate-selective conductance. <i>American Journal of Physiology - Cell Physiology</i> , <b>2018</b> , 315, C457-C473   | 5.4  | 2         |

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| 25 | 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> , <b>2018</b> , 36, 313-324                     | 5.8  | 37  |
| 24 | Role of the sigma-1 receptor chaperone in rod and cone photoreceptor degenerations in a mouse model of retinitis pigmentosa. <i>Molecular Neurodegeneration</i> , <b>2017</b> , 12, 68                                  | 19   | 24  |
| 23 | Abnormal Electroretinogram after Kir7.1 Channel Suppression Suggests Role in Retinal Electrophysiology. <i>Scientific Reports</i> , <b>2017</b> , 7, 10651  | 4.9  | 16  |
| 22 | Pregnancy-adapted uterine artery endothelial cell Ca <sup>2+</sup> signaling and its relationship with membrane potential. <i>Physiological Reports</i> , <b>2017</b> , 5, e13452                                       | 2.6  | 2   |
| 21 | Photoreceptor protection via blockade of BET epigenetic readers in a murine model of inherited retinal degeneration. <i>Journal of Neuroinflammation</i> , <b>2017</b> , 14, 14   | 10.1 | 14  |
| 20 | 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. <i>Cellular Signalling</i> , <b>2017</b> , 37, 93-102 | 4.9  | 13  |
| 19 | Potential independent action of sigma receptor ligands through inhibition of the Kv2.1 channel. <i>Oncotarget</i> , <b>2017</b> , 8, 59345-59358  | 3.3  | 9   |
| 18 | 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> , <b>2016</b> , 118, 147-152       | 3.7  | 3   |
| 17 | Mouse mutation reveals a mechanism involving mitochondrial dynamics that leads to age-dependent retinal pathologies. <i>ELife</i> , <b>2016</b> , 5,  | 8.9  | 32  |
| 16 | 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> , <b>2016</b> , 311, C418-36    | 5.4  | 34  |
| 15 | A Novel KCNJ13 Nonsense Mutation and Loss of Kir7.1 Channel Function Causes Leber Congenital Amaurosis (LCA16). <i>Human Mutation</i> , <b>2015</b> , 36, 720-7   | 4.7  | 34  |
| 14 | Oxytocin expression and function in the posterior retina: a novel signaling pathway. <i>Investigative Ophthalmology and Visual Science</i> , <b>2015</b> , 56, 751-60   |      | 17  |
| 13 | Focus on Kir7.1: physiology and channelopathy. <i>Channels</i> , <b>2014</b> , 8, 488-95  | 3    | 22  |
| 12 | iPS cell modeling of Best disease: insights into the pathophysiology of an inherited macular degeneration. <i>Human Molecular Genetics</i> , <b>2013</b> , 22, 593-607  | 5.6  | 176 |
| 11 | Snowflake vitreoretinal degeneration (SVD) mutation R162W provides new insights into Kir7.1 ion channel structure and function. <i>PLoS ONE</i> , <b>2013</b> , 8, e71744   | 3.7  | 26  |
| 10 | Genetic defects in the hotspot of inwardly rectifying K(+) (Kir) channels and their metabolic consequences: a review. <i>Molecular Genetics and Metabolism</i> , <b>2012</b> , 105, 64-72                               | 3.7  | 27  |
| 9  | Terpenoids from Zingiber officinale (Ginger) induce apoptosis in endometrial cancer cells through the activation of p53. <i>PLoS ONE</i> , <b>2012</b> , 7, e53178  | 3.7  | 86  |
| 8  | Effects of KCNQ channel modulators on the M-type potassium current in primate retinal pigment epithelium. <i>American Journal of Physiology - Cell Physiology</i> , <b>2012</b> , 302, C821-33                          | 5.4  | 23  |

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| 7 | Optic vesicle-like structures derived from human pluripotent stem cells facilitate a customized approach to retinal disease treatment. <i>Stem Cells</i> , <b>2011</b> , 29, 1206-18                                      | 5.8 | 321 |
| 6 | Regulation of Kir channels in bovine retinal pigment epithelial cells by phosphatidylinositol 4,5-bisphosphate. <i>American Journal of Physiology - Cell Physiology</i> , <b>2009</b> , 297, C1001-11                     | 5.4 | 24  |
| 5 | The Visual System <b>2007</b> , 1-4   |     |     |
| 4 | CTRP5 is a membrane-associated and secretory protein in the RPE and ciliary body and the S163R mutation of CTRP5 impairs its secretion. <i>Investigative Ophthalmology and Visual Science</i> , <b>2006</b> , 47, 5505-13 |     | 63  |
| 3 | GABAC receptors are localized with microtubule-associated protein 1B in mammalian cone photoreceptors. <i>Journal of Neuroscience</i> , <b>2000</b> , 20, 6789-96   | 6.6 | 63  |
| 2 | GABAA and GABAC receptors in adult porcine cones: evidence from a photoreceptor-glia co-culture model. <i>Journal of Physiology</i> , <b>1998</b> , 513 ( Pt 1), 33-42  | 3.9 | 57  |
| 1 | Human iPSC modeling reveals mutation-specific responses to gene therapy in Best disease   |     | 2   |