

# Bindu D Paul

## 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.

51  
papers

3,852  
citations

31  
h-index

59  
g-index

59  
ext. papers

4,768  
ext. citations

10.6  
avg, IF

6.09  
L-index

#	Paper	IF	Citations
51	Biliverdin reductase bridges focal adhesion kinase to Src to modulate synaptic signaling.. <i>Science Signaling</i> , <b>2022</b> , 15, eabh3066	8.8	1
50	Cysteine metabolism and hydrogen sulfide signaling in Huntington's disease.. <i>Free Radical Biology and Medicine</i> , <b>2022</b> ,	7.8	2
49	Quantitative measurement of reactive oxygen species in mouse brain slices. <i>STAR Protocols</i> , <b>2021</b> , 2, 100332	1.4	0
48	Signaling by cGAS-STING in Neurodegeneration, Neuroinflammation, and Aging. <i>Trends in Neurosciences</i> , <b>2021</b> , 44, 83-96	13.3	21
47	Effects of hydrogen sulfide on mitochondrial function and cellular bioenergetics. <i>Redox Biology</i> , <b>2021</b> , 38, 101772	11.3	45
46	Hydrogen sulfide is neuroprotective in Alzheimer's disease by sulfhydrating GSK3 $\beta$ and inhibiting Tau hyperphosphorylation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2021</b> , 118,	11.5	34
45	Redox imbalance links COVID-19 and myalgic encephalomyelitis/chronic fatigue syndrome. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2021</b> , 118,	11.5	33
44	Loss of biliverdin reductase-a (BVR-A) impairs beneficial effects of CNS insulin on brain energy metabolism favoring the development of Alzheimer's disease (AD) neuropathology. <i>Alzheimer's and Dementia</i> , <b>2020</b> , 16, e039511	1.2	
43	Inositol polyphosphate multi-kinase is a novel regulator of reverse-transsulfuration pathway. <i>FASEB Journal</i> , <b>2020</b> , 34, 1-1	0.9	
42	BVR-A Deficiency Leads to Autophagy Impairment through the Dysregulation of AMPK/mTOR Axis in the Brain-Implications for Neurodegeneration. <i>Antioxidants</i> , <b>2020</b> , 9,	7.1	11
41	The glutathione cycle shapes synaptic glutamate activity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2019</b> , 116, 2701-2706	11.5	57
40	Impaired Redox Signaling in Huntington's Disease: Therapeutic Implications. <i>Frontiers in Molecular Neuroscience</i> , <b>2019</b> , 12, 68	6.1	27
39	Histone H2AX promotes neuronal health by controlling mitochondrial homeostasis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2019</b> , 116, 7471-7476	11.5	17
38	Regulators of the transsulfuration pathway. <i>British Journal of Pharmacology</i> , <b>2019</b> , 176, 583-593	8.6	83
37	Bilirubin Links Heme Metabolism to Neuroprotection by Scavenging Superoxide. <i>Cell Chemical Biology</i> , <b>2019</b> , 26, 1450-1460.e7	8.2	38
36	Selective Persulfide Detection Reveals Evolutionarily Conserved Antiaging Effects of S-Sulfhydration. <i>Cell Metabolism</i> , <b>2019</b> , 30, 1152-1170.e13	24.6	122
35	Therapeutic Applications of Cysteamine and Cystamine in Neurodegenerative and Neuropsychiatric Diseases. <i>Frontiers in Neurology</i> , <b>2019</b> , 10, 1315	4.1	20

34	Redox Mechanisms in Neurodegeneration: From Disease Outcomes to Therapeutic Opportunities. <i>Antioxidants and Redox Signaling</i> , <b>2019</b> , 30, 1450-1499	8.4	50
33	Cysteine Metabolism in Neuronal Redox Homeostasis. <i>Trends in Pharmacological Sciences</i> , <b>2018</b> , 39, 513-524	5.4	111
32	Histone H2AX deficiency causes neurobehavioral deficits and impaired redox homeostasis. <i>Nature Communications</i> , <b>2018</b> , 9, 1526	17.4	21
31	Golgi stress response reprograms cysteine metabolism to confer cytoprotection in Huntington's disease. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2018</b> , 115, 780-785	11.5	46
30	Gasotransmitter hydrogen sulfide signaling in neuronal health and disease. <i>Biochemical Pharmacology</i> , <b>2018</b> , 149, 101-109	6	114
29	Allele-specific regulation of mutant Huntingtin by Wig1, a downstream target of p53. <i>Human Molecular Genetics</i> , <b>2016</b> , 25, 2514-2524	5.6	3
28	Transcriptional control of amino acid homeostasis is disrupted in Huntington's disease. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2016</b> , 113, 8843-8	11.5	43
27	Huntington's disease: Neural dysfunction linked to inositol polyphosphate multikinase. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2015</b> , 112, 9751-6	11.5	23
26	H <sub>2</sub> S: A Novel Gasotransmitter that Signals by Sulfhydration. <i>Trends in Biochemical Sciences</i> , <b>2015</b> , 40, 687-700	10.3	197
25	Modes of physiologic H <sub>2</sub> S signaling in the brain and peripheral tissues. <i>Antioxidants and Redox Signaling</i> , <b>2015</b> , 22, 411-23	8.4	46
24	Protein sulfhydration. <i>Methods in Enzymology</i> , <b>2015</b> , 555, 79-90	1.7	39
23	Serine racemase regulated by binding to stargazin and PSD-95: potential N-methyl-D-aspartate-amino-3-hydroxy-5-methyl-4-isoxazolepropionic acid (NMDA-AMPA) glutamate neurotransmission cross-talk. <i>Journal of Biological Chemistry</i> , <b>2014</b> , 289, 29631-41	5.4	27
22	Cystathionine β-lyase deficiency mediates neurodegeneration in Huntington's disease. <i>Nature</i> , <b>2014</b> , 509, 96-100	50.4	249
21	Neurodegeneration in Huntington's disease involves loss of cystathionine β-lyase. <i>Cell Cycle</i> , <b>2014</b> , 13, 2491-3	4.7	28
20	Golgi protein ACBD3 mediates neurotoxicity associated with Huntington's disease. <i>Cell Reports</i> , <b>2013</b> , 4, 890-7	10.6	43
19	Sulfhydration mediates neuroprotective actions of parkin. <i>Nature Communications</i> , <b>2013</b> , 4, 1626	17.4	201
18	Inositol polyphosphate multikinase is a transcriptional coactivator required for immediate early gene induction. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2013</b> , 110, 16181-6	11.5	27
17	Dexas1 mediates glucocorticoid-associated adipogenesis and diet-induced obesity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2013</b> , 110, 20575-80	11.5	31

16	Inositol polyphosphate multikinase is a coactivator of p53-mediated transcription and cell death. <i>Science Signaling</i> , <b>2013</b> , 6, ra22	8.8	35
15	The conversion of H <sub>2</sub> S to sulfane sulfur: authors' response. <i>Nature Reviews Molecular Cell Biology</i> , <b>2012</b> , 13, 803-803	48.7	7
14	Hydrogen sulfide-linked sulphydration of NF- $\kappa$ B mediates its antiapoptotic actions. <i>Molecular Cell</i> , <b>2012</b> , 45, 13-24	17.6	490
13	H <sub>2</sub> S signalling through protein sulphydration and beyond. <i>Nature Reviews Molecular Cell Biology</i> , <b>2012</b> , 13, 499-507	48.7	580
12	Novel functions of protein arginine methyltransferase 1 in thyroid hormone receptor-mediated transcription and in the regulation of metamorphic rate in <i>Xenopus laevis</i> . <i>Molecular and Cellular Biology</i> , <b>2009</b> , 29, 745-57	4.8	46
11	Bilirubin and glutathione have complementary antioxidant and cytoprotective roles. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2009</b> , 106, 5171-6	11.5	320
10	A role of unliganded thyroid hormone receptor in postembryonic development in <i>Xenopus laevis</i> . <i>Mechanisms of Development</i> , <b>2007</b> , 124, 476-88	1.7	55
9	SRC-p300 coactivator complex is required for thyroid hormone-induced amphibian metamorphosis. <i>Journal of Biological Chemistry</i> , <b>2007</b> , 282, 7472-81	5.4	49
8	Contrasting effects of two alternative splicing forms of coactivator-associated arginine methyltransferase 1 on thyroid hormone receptor-mediated transcription in <i>Xenopus laevis</i> . <i>Molecular Endocrinology</i> , <b>2007</b> , 21, 1082-94		28
7	Molecular and developmental analyses of thyroid hormone receptor function in <i>Xenopus laevis</i> , the African clawed frog. <i>General and Comparative Endocrinology</i> , <b>2006</b> , 145, 1-19	3	171
6	Gene-specific changes in promoter occupancy by thyroid hormone receptor during frog metamorphosis. Implications for developmental gene regulation. <i>Journal of Biological Chemistry</i> , <b>2005</b> , 280, 41222-8	5.4	44
5	Tissue- and gene-specific recruitment of steroid receptor coactivator-3 by thyroid hormone receptor during development. <i>Journal of Biological Chemistry</i> , <b>2005</b> , 280, 27165-72	5.4	53
4	Transgenic analysis reveals that thyroid hormone receptor is sufficient to mediate the thyroid hormone signal in frog metamorphosis. <i>Molecular and Cellular Biology</i> , <b>2004</b> , 24, 9026-37	4.8	116
3	Distinct expression profiles of transcriptional coactivators for thyroid hormone receptors during <i>Xenopus laevis</i> metamorphosis. <i>Cell Research</i> , <b>2003</b> , 13, 459-64	24.7	32
2	An artificial regulatory circuit for stable expression of DNA-binding proteins in a T7 expression system. <i>Gene</i> , <b>1997</b> , 190, 11-5	3.8	3
1	The glutathione cycle shapes synaptic glutamate activity		1