

Bindu D Paul

List of Publications by Year in descending order

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54
papers

5,654
citations

117453

34
h-index

168136

53
g-index

59
all docs

59
docs citations

59
times ranked

6968
citing authors

#	ARTICLE	IF	CITATIONS
1	H ₂ S signalling through protein sulfhydration and beyond. <i>Nature Reviews Molecular Cell Biology</i> , 2012, 13, 499-507.	16.1	716
2	Hydrogen Sulfide-Linked Sulfhydration of NF- κ B Mediates Its Antiapoptotic Actions. <i>Molecular Cell</i> , 2012, 45, 13-24.	4.5	626
3	Bilirubin and glutathione have complementary antioxidant and cytoprotective roles. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 5171-5176.	3.3	403
4	Cystathionine β -lyase deficiency mediates neurodegeneration in Huntington's disease. <i>Nature</i> , 2014, 509, 96-100.	13.7	336
5	H ₂ S: A Novel Gasotransmitter that Signals by Sulfhydration. <i>Trends in Biochemical Sciences</i> , 2015, 40, 687-700.	3.7	267
6	Sulfhydration mediates neuroprotective actions of parkin. <i>Nature Communications</i> , 2013, 4, 1626.	5.8	265
7	Selective Persulfide Detection Reveals Evolutionarily Conserved Antiaging Effects of S-Sulfhydration. <i>Cell Metabolism</i> , 2019, 30, 1152-1170.e13.	7.2	236
8	Regulators of the transsulfuration pathway. <i>British Journal of Pharmacology</i> , 2019, 176, 583-593.	2.7	205
9	Cysteine Metabolism in Neuronal Redox Homeostasis. <i>Trends in Pharmacological Sciences</i> , 2018, 39, 513-524.	4.0	198
10	Molecular and developmental analyses of thyroid hormone receptor function in <i>Xenopus laevis</i> , the African clawed frog. <i>General and Comparative Endocrinology</i> , 2006, 145, 1-19.	0.8	197
11	Gasotransmitter hydrogen sulfide signaling in neuronal health and disease. <i>Biochemical Pharmacology</i> , 2018, 149, 101-109.	2.0	175
12	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> , 2021, 118, .	3.3	140
13	Effects of hydrogen sulfide on mitochondrial function and cellular bioenergetics. <i>Redox Biology</i> , 2021, 38, 101772.	3.9	126
14	Hydrogen sulfide is neuroprotective in Alzheimer's disease by sulfhydrating GSK3 β and inhibiting Tau hyperphosphorylation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	124
15	Transgenic Analysis Reveals that Thyroid Hormone Receptor Is Sufficient To Mediate the Thyroid Hormone Signal in Frog Metamorphosis. <i>Molecular and Cellular Biology</i> , 2004, 24, 9026-9037.	1.1	122
16	Signaling by cGAS-STING in Neurodegeneration, Neuroinflammation, and Aging. <i>Trends in Neurosciences</i> , 2021, 44, 83-96.	4.2	121
17	The glutathione cycle shapes synaptic glutamate activity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 2701-2706.	3.3	99
18	Redox Mechanisms in Neurodegeneration: From Disease Outcomes to Therapeutic Opportunities. <i>Antioxidants and Redox Signaling</i> , 2019, 30, 1450-1499.	2.5	90

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19	Golgi stress response reprograms cysteine metabolism to confer cytoprotection in Huntingtonâ€™s disease. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 780-785.	3.3	84
20	Modes of Physiologic H ₂ S Signaling in the Brain and Peripheral Tissues. <i>Antioxidants and Redox Signaling</i> , 2015, 22, 411-423.	2.5	68
21	Bilirubin Links Heme Metabolism to Neuroprotection by Scavenging Superoxide. <i>Cell Chemical Biology</i> , 2019, 26, 1450-1460.e7.	2.5	66
22	Transcriptional control of amino acid homeostasis is disrupted in Huntingtonâ€™s disease. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 8843-8848.	3.3	63
23	Protein Sulfhydration. <i>Methods in Enzymology</i> , 2015, 555, 79-90.	0.4	57
24	A role of unliganded thyroid hormone receptor in postembryonic development in <i>Xenopus laevis</i> . <i>Mechanisms of Development</i> , 2007, 124, 476-488.	1.7	56
25	Tissue- and Gene-specific Recruitment of Steroid Receptor Coactivator-3 by Thyroid Hormone Receptor during Development. <i>Journal of Biological Chemistry</i> , 2005, 280, 27165-27172.	1.6	54
26	Golgi Protein ACBD3 Mediates Neurotoxicity Associated with Huntingtonâ€™s Disease. <i>Cell Reports</i> , 2013, 4, 890-897.	2.9	54
27	SRC-p300 Coactivator Complex Is Required for Thyroid Hormone-induced Amphibian Metamorphosis. <i>Journal of Biological Chemistry</i> , 2007, 282, 7472-7481.	1.6	50
28	Gene-specific Changes in Promoter Occupancy by Thyroid Hormone Receptor during Frog Metamorphosis. <i>Journal of Biological Chemistry</i> , 2005, 280, 41222-41228.	1.6	48
29	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> , 2009, 29, 745-757.	1.1	48
30	Impaired Redox Signaling in Huntingtonâ€™s Disease: Therapeutic Implications. <i>Frontiers in Molecular Neuroscience</i> , 2019, 12, 68.	1.4	48
31	Therapeutic Applications of Cysteamine and Cystamine in Neurodegenerative and Neuropsychiatric Diseases. <i>Frontiers in Neurology</i> , 2019, 10, 1315.	1.1	46
32	Inositol Polyphosphate Multikinase Is a Coactivator of p53-Mediated Transcription and Cell Death. <i>Science Signaling</i> , 2013, 6, ra22.	1.6	45
33	Serine Racemase Regulated by Binding to Stargazin and PSD-95. <i>Journal of Biological Chemistry</i> , 2014, 289, 29631-29641.	1.6	41
34	Dexas1 mediates glucocorticoid-associated adipogenesis and diet-induced obesity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 20575-20580.	3.3	39
35	Neurodegeneration in Huntington's disease involves loss of cystathionine Î³-lyase. <i>Cell Cycle</i> , 2014, 13, 2491-2493.	1.3	38
36	Huntingtonâ€™s disease: Neural dysfunction linked to inositol polyphosphate multikinase. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 9751-9756.	3.3	34

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37	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> , 2013, 110, 16181-16186.	3.3	33
38	Distinct expression profiles of transcriptional coactivators for thyroid hormone receptors during <i>Xenopus laevis</i> metamorphosis. <i>Cell Research</i> , 2003, 13, 459-464.	5.7	32
39	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> , 2007, 21, 1082-1094.	3.7	29
40	Histone H2AX deficiency causes neurobehavioral deficits and impaired redox homeostasis. <i>Nature Communications</i> , 2018, 9, 1526.	5.8	25
41	Histone H2AX promotes neuronal health by controlling mitochondrial homeostasis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 7471-7476.	3.3	25
42	Ergothioneine: A Stress Vitamin with Antiaging, Vascular, and Neuroprotective Roles?. <i>Antioxidants and Redox Signaling</i> , 2022, 36, 1306-1317.	2.5	20
43	BVR-A Deficiency Leads to Autophagy Impairment through the Dysregulation of AMPK/mTOR Axis in the Brain—Implications for Neurodegeneration. <i>Antioxidants</i> , 2020, 9, 671.	2.2	17
44	Cysteine metabolism and hydrogen sulfide signaling in Huntington’s disease. <i>Free Radical Biology and Medicine</i> , 2022, 186, 93-98.	1.3	17
45	Signaling Overlap between the Golgi Stress Response and Cysteine Metabolism in Huntington’s Disease. <i>Antioxidants</i> , 2021, 10, 1468.	2.2	10
46	The conversion of H ₂ S to sulfane sulfur: authors' response. <i>Nature Reviews Molecular Cell Biology</i> , 2012, 13, 803-803.	16.1	8
47	Cystathionine β -lyase exacerbates <i>Helicobacter pylori</i> immunopathogenesis by promoting macrophage metabolic remodeling and activation. <i>JCI Insight</i> , 2022, 7, .	2.3	8
48	Allele-specific regulation of mutant Huntingtin by Wig1, a downstream target of p53. <i>Human Molecular Genetics</i> , 2016, 25, ddu115.	1.4	5
49	Biliverdin reductase bridges focal adhesion kinase to Src to modulate synaptic signaling. <i>Science Signaling</i> , 2022, 15, eabh3066.	1.6	4
50	An artificial regulatory circuit for stable expression of DNA-binding proteins in a T7 expression system. <i>Gene</i> , 1997, 190, 11-15.	1.0	3
51	Quantitative measurement of reactive oxygen species in ex vivo mouse brain slices. <i>STAR Protocols</i> , 2021, 2, 100332.	0.5	2
52	Revealing Sex and Alzheimer’s Disease-related Changes in the Spatial Localization of Brain Lipids in Mice using Mass Spectrometry Imaging. <i>FASEB Journal</i> , 2022, 36, .	0.2	1
53	Loss of biliverdin reductase (BVR) 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> , 2020, 16, e039511.	0.4	0
54	Inositol polyphosphate multi-kinase is a novel regulator of reverse-transsulfuration pathway. <i>FASEB Journal</i> , 2020, 34, 1-1.	0.2	0