

# Jayasri Nanduri

## List of Publications by Citations

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66

papers

2,428

citations

26

h-index

49

g-index

68

ext. papers

2,751

ext. citations

4.2

avg, IF

4.88

L-index

#	Paper	IF	Citations
66	H <sub>2</sub> S mediates O <sub>2</sub> sensing in the carotid body. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2010</b> , 107, 10719-24	11.5	304
65	Induction of HIF-1 $\alpha$ expression by intermittent hypoxia: involvement of NADPH oxidase, Ca <sup>2+</sup> signaling, prolyl hydroxylases, and mTOR. <i>Journal of Cellular Physiology</i> , <b>2008</b> , 217, 674-85	7	233
64	Ca <sup>2+</sup> /calmodulin kinase-dependent activation of hypoxia inducible factor 1 transcriptional activity in cells subjected to intermittent hypoxia. <i>Journal of Biological Chemistry</i> , <b>2005</b> , 280, 4321-8	5.4	179
63	Hypoxia-inducible factor 1 mediates increased expression of NADPH oxidase-2 in response to intermittent hypoxia. <i>Journal of Cellular Physiology</i> , <b>2011</b> , 226, 2925-33	7	148
62	Intermittent hypoxia degrades HIF-2 $\alpha$ via calpains resulting in oxidative stress: implications for recurrent apnea-induced morbidities. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2009</b> , 106, 1199-204	11.5	128
61	TET1-mediated hydroxymethylation facilitates hypoxic gene induction in neuroblastoma. <i>Cell Reports</i> , <b>2014</b> , 7, 1343-1352	10.6	115
60	Epigenetic regulation of hypoxic sensing disrupts cardiorespiratory homeostasis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2012</b> , 109, 2515-20	11.5	105
59	Transcriptional responses to intermittent hypoxia. <i>Respiratory Physiology and Neurobiology</i> , <b>2008</b> , 164, 277-81	2.8	94
58	Protein kinase G-regulated production of H <sub>2</sub> S governs oxygen sensing. <i>Science Signaling</i> , <b>2015</b> , 8, ra37	8.8	78
57	NADPH oxidase 2 mediates intermittent hypoxia-induced mitochondrial complex I inhibition: relevance to blood pressure changes in rats. <i>Antioxidants and Redox Signaling</i> , <b>2011</b> , 14, 533-42	8.4	70
56	Regulation of hypoxia-inducible factor-1 isoforms and redox state by carotid body neural activity in rats. <i>Journal of Physiology</i> , <b>2014</b> , 592, 3841-58	3.9	66
55	Impairment of pancreatic $\beta$ -cell function by chronic intermittent hypoxia. <i>Experimental Physiology</i> , <b>2013</b> , 98, 1376-85	2.4	63
54	Peripheral chemoreception and arterial pressure responses to intermittent hypoxia. <i>Comprehensive Physiology</i> , <b>2015</b> , 5, 561-77	7.7	61
53	NADPH oxidase-dependent regulation of T-type Ca <sup>2+</sup> channels and ryanodine receptors mediate the augmented exocytosis of catecholamines from intermittent hypoxia-treated neonatal rat chromaffin cells. <i>Journal of Neuroscience</i> , <b>2010</b> , 30, 10763-72	6.6	61
52	Inherent variations in CO-H <sub>2</sub> S-mediated carotid body O <sub>2</sub> sensing mediate hypertension and pulmonary edema. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2014</b> , 111, 1174-9	11.5	59
51	Endogenous H <sub>2</sub> S is required for hypoxic sensing by carotid body glomus cells. <i>American Journal of Physiology - Cell Physiology</i> , <b>2012</b> , 303, C916-23	5.4	57
50	HIF-1 $\beta$ activation by intermittent hypoxia requires NADPH oxidase stimulation by xanthine oxidase. <i>PLoS ONE</i> , <b>2015</b> , 10, e0119762	3.7	56

49	Xanthine oxidase mediates hypoxia-inducible factor-2 $\alpha$ degradation by intermittent hypoxia. <i>PLoS ONE</i> , <b>2013</b> , 8, e75838	3.7	49
48	Complementary roles of gasotransmitters CO and H <sub>2</sub> S in sleep apnea. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2017</b> , 114, 1413-1418	11.5	45
47	Intermittent hypoxia augments acute hypoxic sensing via HIF-mediated ROS. <i>Respiratory Physiology and Neurobiology</i> , <b>2010</b> , 174, 230-4	2.8	45
46	Epigenetic regulation of redox state mediates persistent cardiorespiratory abnormalities after long-term intermittent hypoxia. <i>Journal of Physiology</i> , <b>2017</b> , 595, 63-77	3.9	41
45	Epigenetic changes by DNA methylation in chronic and intermittent hypoxia. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , <b>2017</b> , 313, L1096-L1100	5.8	37
44	Endothelin-1 mediates attenuated carotid baroreceptor activity by intermittent hypoxia. <i>Journal of Applied Physiology</i> , <b>2012</b> , 112, 187-96	3.7	34
43	Hypoxia-inducible factors and obstructive sleep apnea. <i>Journal of Clinical Investigation</i> , <b>2020</b> , 130, 5042-5051	10.5	33
42	Cellular mechanisms associated with intermittent hypoxia. <i>Essays in Biochemistry</i> , <b>2007</b> , 43, 91-104	7.6	31
41	Hypoxia-inducible factors and hypertension: lessons from sleep apnea syndrome. <i>Journal of Molecular Medicine</i> , <b>2015</b> , 93, 473-80	5.5	29
40	H <sub>2</sub> S production by reactive oxygen species in the carotid body triggers hypertension in a rodent model of sleep apnea. <i>Science Signaling</i> , <b>2016</b> , 9, ra80	8.8	26
39	Reactive oxygen radicals and gaseous transmitters in carotid body activation by intermittent hypoxia. <i>Cell and Tissue Research</i> , <b>2018</b> , 372, 427-431	4.2	20
38	CaV3.2 T-type Ca <sup>2+</sup> channels in HIF-mediated hypoxic response of the carotid body. <i>American Journal of Physiology - Cell Physiology</i> , <b>2015</b> , 308, C146-54	5.4	16
37	Hypoxia inhibits maturation and trafficking of hERG K(+) channel protein: Role of Hsp90 and ROS. <i>Biochemical and Biophysical Research Communications</i> , <b>2009</b> , 388, 212-6	3.4	15
36	Recent advances in understanding the physiology of hypoxic sensing by the carotid body. <i>F1000Research</i> , <b>2018</b> , 7,	3.6	15
35	Olfactory receptor 78 participates in carotid body response to a wide range of low O <sub>2</sub> levels but not severe hypoxia. <i>Journal of Neurophysiology</i> , <b>2020</b> , 123, 1886-1895	3.2	14
34	Developmental programming of O <sub>2</sub> sensing by neonatal intermittent hypoxia via epigenetic mechanisms. <i>Respiratory Physiology and Neurobiology</i> , <b>2013</b> , 185, 105-9	2.8	14
33	Mitochondrial reactive oxygen species mediate hypoxic down-regulation of hERG channel protein. <i>Biochemical and Biophysical Research Communications</i> , <b>2008</b> , 373, 309-14	3.4	14
32	Epigenetic Regulation of Carotid Body Oxygen Sensing: Clinical Implications. <i>Advances in Experimental Medicine and Biology</i> , <b>2015</b> , 860, 1-8	3.6	11

31	DNA methylation in the central and efferent limbs of the chemoreflex requires carotid body neural activity. <i>Journal of Physiology</i> , <b>2018</b> , 596, 3087-3100	3.9	10
30	Neuromolecular mechanisms mediating the effects of chronic intermittent hypoxia on adrenal medulla. <i>Respiratory Physiology and Neurobiology</i> , <b>2015</b> , 209, 115-9	2.8	8
29	CaV3.2 T-type Ca <sup>2+</sup> channels mediate the augmented calcium influx in carotid body glomus cells by chronic intermittent hypoxia. <i>Journal of Neurophysiology</i> , <b>2016</b> , 115, 345-54	3.2	8
28	Hypoxia-inducible factor-1 mediates pancreatic $\beta$ -cell dysfunction by intermittent hypoxia. <i>American Journal of Physiology - Cell Physiology</i> , <b>2020</b> , 319, C922-C932	5.4	7
27	Therapeutic Targeting of the Carotid Body for Treating Sleep Apnea in a Pre-clinical Mouse Model. <i>Advances in Experimental Medicine and Biology</i> , <b>2018</b> , 1071, 109-114	3.6	7
26	Neural Activation of Molecular Circuitry in Intermittent Hypoxia. <i>Current Opinion in Physiology</i> , <b>2019</b> , 7, 9-14	2.6	5
25	Role of olfactory receptor78 in carotid body-dependent sympathetic activation and hypertension in murine models of chronic intermittent hypoxia. <i>Journal of Neurophysiology</i> , <b>2021</b> , 125, 2054-2067	3.2	4
24	Hypoxia induced hERG trafficking defect linked to cell cycle arrest in SH-SY5Y cells. <i>PLoS ONE</i> , <b>2019</b> , 14, e0215905	3.7	3
23	Gaseous transmitter regulation of hypoxia-evoked catecholamine secretion from murine adrenal chromaffin cells. <i>Journal of Neurophysiology</i> , <b>2021</b> , 125, 1533-1542	3.2	3
22	Lysine demethylase KDM6B regulates HIF-1 $\beta$ -mediated systemic and cellular responses to intermittent hypoxia. <i>Physiological Genomics</i> , <b>2021</b> , 53, 385-394	3.6	3
21	Long-term facilitation of catecholamine secretion from adrenal chromaffin cells of neonatal rats by chronic intermittent hypoxia. <i>Journal of Neurophysiology</i> , <b>2019</b> , 122, 1874-1883	3.2	2
20	Immunohistochemistry of the Carotid Body. <i>Methods in Molecular Biology</i> , <b>2018</b> , 1742, 155-166	1.4	1
19	Histone Deacetylase 5 Is an Early Epigenetic Regulator of Intermittent Hypoxia Induced Sympathetic Nerve Activation and Blood Pressure. <i>Frontiers in Physiology</i> , <b>2021</b> , 12, 688322	4.6	1
18	Intermittent Hypoxia-Induced Activation of Endothelial Cells Is Mediated Sympathetic Activation-Dependent Catecholamine Release. <i>Frontiers in Physiology</i> , <b>2021</b> , 12, 701995	4.6	0
17	Mechanisms of Mitochondrial Complex 1 Inhibition by Intermittent Hypoxia. <i>FASEB Journal</i> , <b>2008</b> , 22, 960.6	0.9	
16	Mitochondrial ROS is involved in downregulation of hERG by hypoxia. <i>FASEB Journal</i> , <b>2008</b> , 22, 960.5	0.9	
15	Impaired Acute Hypoxic Sensing in Olfactory Receptor 78 Knockout Mice. <i>FASEB Journal</i> , <b>2019</b> , 33, lb5750.9		
14	Persistent HIF-1 Activation by Long-Term Intermittent Hypoxia. <i>FASEB Journal</i> , <b>2019</b> , 33, 551.16	0.9	

- 13 H<sub>2</sub>S Contributes to Carotid Body Response to Hypoxia but Not Anoxia. *FASEB Journal*, **2019**, 33, 551.14 0.9
- 12 Phrenic Nerve and Carotid Body Responses to Hypoxia and CO<sub>2</sub> in Naked Mole Rats. *FASEB Journal*, **2019**, 33, lb576 0.9
- 11 H<sub>2</sub>S synthesis inhibitor prevents hypoxia-evoked periodic breathing in spontaneous hypertensive rats. *FASEB Journal*, **2019**, 33, lb577 0.9
- 10 H<sub>2</sub>S synthesis inhibitor prevents hypoxia-evoked periodic breathing in spontaneous hypertensive rats. *FASEB Journal*, **2019**, 33, 551.17 0.9
- 9 Activation of Lysine Demethylases (KDM4) by Intermittent Hypoxia. *FASEB Journal*, **2019**, 33, 551.15 0.9
- 8 Protein Kinase G Regulated H<sub>2</sub>S Governs Oxygen Sensing by the Carotid Body. *FASEB Journal*, **2015**, 29, 682.2 0.9
- 7 Carotid body response to intermittent hypoxia requires Cav 3.2 T-type Ca<sup>2+</sup> channels. *FASEB Journal*, **2015**, 29, 681.2 0.9
- 6 Regulation of Insulin Metabolism by Intermittent Hypoxia. Molecular Mechanisms. *FASEB Journal*, **2015**, 29, 682.5 0.9
- 5 Non-transcriptional Role of HIF-2 $\alpha$  in Hypoxia-Evoked hERG K<sup>+</sup> Channel Trafficking. *FASEB Journal*, **2015**, 29, 681.1 0.9
- 4 Cav 3.2 T-type Ca<sup>2+</sup> Channels in H<sub>2</sub>S-Mediated Hypoxic Response of the Carotid Body. *FASEB Journal*, **2015**, 29, 859.10 0.9
- 3 Intermittent Hypoxia Elicits a Rapid Up-Regulation of Cav3.2 T-type Ca<sup>2+</sup> Channels Mediated by Reactive Oxygen Species. *FASEB Journal*, **2012**, 26, 898.8 0.9
- 2 Hydrogen sulfide mediates catecholamine secretion elicited by hypoxia in the carotid body. *FASEB Journal*, **2012**, 26, 897.8 0.9
- 1 Intermittent Hypoxia-induced hERG degradation involves ROS Activated Calpains. *FASEB Journal*, **2013**, 27, 938.3 0.9