

# Rishi R Dhingra

## List of Publications by Year in descending order

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31  
papers

695  
citations

687363

13  
h-index

580821

25  
g-index

35  
all docs

35  
docs citations

35  
times ranked

854  
citing authors

#	ARTICLE	IF	CITATIONS
1	Light-Induced Rescue of Breathing after Spinal Cord Injury. <i>Journal of Neuroscience</i> , 2008, 28, 11862-11870.	3.6	163
2	Cardiorespiratory Coupling. <i>Progress in Brain Research</i> , 2014, 209, 191-205.	1.4	132
3	Coping with hypoxemia: Could erythropoietin (EPO) be an adjuvant treatment of COVID-19?. <i>Respiratory Physiology and Neurobiology</i> , 2020, 279, 103476.	1.6	42
4	Increasing Local Excitability of Brainstem Respiratory Nuclei Reveals a Distributed Network Underlying Respiratory Motor Pattern Formation. <i>Frontiers in Physiology</i> , 2019, 10, 887.	2.8	41
5	K $\ddot{a}$ lliker-Fuse nuclei regulate respiratory rhythm variability via a gain-control mechanism. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2017, 312, R172-R188.	1.8	34
6	Vagal-dependent nonlinear variability in the respiratory pattern of anesthetized, spontaneously breathing rats. <i>Journal of Applied Physiology</i> , 2011, 111, 272-284.	2.5	32
7	Volumetric mapping of the functional neuroanatomy of the respiratory network in the perfused brainstem preparation of rats. <i>Journal of Physiology</i> , 2020, 598, 2061-2079.	2.9	32
8	Advancing respiratoryâ€“cardiovascular physiology with the working heartâ€“brainstem preparation over 25 years. <i>Journal of Physiology</i> , 2022, 600, 2049-2075.	2.9	22
9	Quantifying interactions between real oscillators with information theory and phase models: Application to cardiorespiratory coupling. <i>Physical Review E</i> , 2013, 87, 022709.	2.1	21
10	Blockade of dorsolateral pontine 5HT1A receptors destabilizes the respiratory rhythm in C57BL6/J wild-type mice. <i>Respiratory Physiology and Neurobiology</i> , 2016, 226, 110-114.	1.6	21
11	The pontine K $\ddot{a}$ lliker-Fuse nucleus gates facial, hypoglossal, and vagal upper airway related motor activity. <i>Respiratory Physiology and Neurobiology</i> , 2021, 284, 103563.	1.6	19
12	Enhanced Neuropeptide Y Synthesis During Intermittent Hypoxia in the Rat Adrenal Medulla: Role of Reactive Oxygen Speciesâ€“Dependent Alterations in Precursor Peptide Processing. <i>Antioxidants and Redox Signaling</i> , 2011, 14, 1179-1190.	5.4	18
13	Forebrain projection neurons target functionally diverse respiratory control areas in the midbrain, pons, and medulla oblongata. <i>Journal of Comparative Neurology</i> , 2021, 529, 2243-2264.	1.6	18
14	Effects of ion channel noise on neural circuits: an application to the respiratory pattern generator to investigate breathing variability. <i>Journal of Neurophysiology</i> , 2017, 117, 230-242.	1.8	17
15	Excitation-inhibition balance regulates the patterning of spinal and cranial inspiratory motor outputs in rats in situ. <i>Respiratory Physiology and Neurobiology</i> , 2019, 266, 95-102.	1.6	16
16	Decreased Heringâ€“Breuer Input-Output Entrainment in a Mouse Model of Rett Syndrome. <i>Frontiers in Neural Circuits</i> , 2013, 7, 42.	2.8	14
17	Expression of the transcription factor FOXP2 in brainstem respiratory circuits of adult rat is restricted to upper-airway pre-motor areas. <i>Respiratory Physiology and Neurobiology</i> , 2018, 250, 14-18.	1.6	12
18	Reciprocal connectivity of the periaqueductal gray with the ponto-medullary respiratory network in rat. <i>Brain Research</i> , 2021, 1757, 147255.	2.2	8

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19	The role of glycinergic inhibition in respiratory pattern formation and cardio-respiratory coupling in rats. <i>Current Research in Physiology</i> , 2021, 4, 80-93.	1.7	7
20	Effects of pharmacological lesion of the nucleus retroambiguus region on the pharyngeal phase of swallowing. <i>Respiratory Physiology and Neurobiology</i> , 2019, 268, 103244.	1.6	6
21	Relaxin-3 receptor (RXFP3) activation in the nucleus of the solitary tract modulates respiratory rate and the arterial chemoreceptor reflex in rat. <i>Respiratory Physiology and Neurobiology</i> , 2020, 271, 103310.	1.6	6
22	Modeling the Respiratory Central Pattern Generator with Resonate-and-Fire Izhikevich-Neurons. <i>Lecture Notes in Computer Science</i> , 2018, , 603-615.	1.3	4
23	An arterially perfused brainstem preparation of guinea pig to study central mechanisms of airway defense. <i>Journal of Neuroscience Methods</i> , 2019, 317, 49-60.	2.5	3
24	Response to: The post-inspiratory complex (PiCo), what is the evidence?. <i>Journal of Physiology</i> , 2021, 599, 361-362.	2.9	2
25	Tauopathy in the periaqueductal gray, Kölliker-fuse nucleus and nucleus retroambiguus is not predicted by ultrasonic vocalization in tau-P301L mice. <i>Behavioural Brain Research</i> , 2019, 369, 111916.	2.2	1
26	Thoracic sympathetic chain stimulation modulates and entrains the respiratory pattern. <i>Autonomic Neuroscience: Basic and Clinical</i> , 2019, 218, 16-24.	2.8	1
27	Analysis of Ventilatory Pattern Variability. , 2013, , 79-99.		0
28	Learning to Breathe: Cholinergic modulation of plasticity associated with the gating of pulmonary stretch receptor input in the nucleus of the solitary tract.. <i>FASEB Journal</i> , 2018, 32, 625.15.	0.5	0
29	Relaxin receptor (RXFP3) mediated modulation of central respiratory activity. <i>FASEB Journal</i> , 2020, 34, 1-1.	0.5	0
30	Volumetric mapping of the functional neuroanatomy of the brainstem respiratory network in the perfused brainstem preparation of rats. <i>FASEB Journal</i> , 2020, 34, 1-1.	0.5	0
31	Descending forebrain projections targeting respiratory control areas in the midbrain and brainstem of rats.. <i>FASEB Journal</i> , 2020, 34, 1-1.	0.5	0