

# Stephen B G Abbott

## List of Publications by Year in descending order

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Version: 2024-02-01

35  
papers

2,708  
citations

218677

26  
h-index

395702

33  
g-index

35  
all docs

35  
docs citations

35  
times ranked

2955  
citing authors

#	ARTICLE	IF	CITATIONS
1	Adrenergic C1 neurons monitor arterial blood pressure and determine the sympathetic response to hemorrhage. <i>Cell Reports</i> , 2022, 38, 110480.	6.4	12
2	TRPM4 mediates a subthreshold membrane potential oscillation in respiratory chemoreceptor neurons that drives pacemaker firing and breathing. <i>Cell Reports</i> , 2021, 34, 108714.	6.4	17
3	Vagus nerve stimulation activates two distinct neuroimmune circuits converging in the spleen to protect mice from kidney injury. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	55
4	Chemoreceptor mechanisms regulating CO <sub>2</sub> -induced arousal from sleep. <i>Journal of Physiology</i> , 2021, 599, 2559-2571.	2.9	6
5	The dynamic activity of C1 neurons determines the level of blood pressure during hemorrhage in freely behaving rats. <i>FASEB Journal</i> , 2021, 35, .	0.5	0
6	Differential Contribution of the Retrotrapezoid Nucleus and C1 Neurons to Active Expiration and Arousal in Rats. <i>Journal of Neuroscience</i> , 2020, 40, 8683-8697.	3.6	29
7	Neuronal Networks in Hypertension. <i>Hypertension</i> , 2020, 76, 300-311.	2.7	54
8	EP3R-Expressing Glutamatergic Preoptic Neurons Mediate Inflammatory Fever. <i>Journal of Neuroscience</i> , 2020, 40, 2573-2588.	3.6	46
9	Contribution of the Retrotrapezoid Nucleus and Carotid Bodies to Hypercapnia- and Hypoxia-induced Arousal from Sleep. <i>Journal of Neuroscience</i> , 2019, 39, 9725-9737.	3.6	30
10	The Retrotrapezoid Nucleus: Central Chemoreceptor and Regulator of Breathing Automaticity. <i>Trends in Neurosciences</i> , 2019, 42, 807-824.	8.6	129
11	Contribution of retrotrapezoid nucleus and carotid bodies to asphyxia-induced arousal in rats. <i>FASEB Journal</i> , 2019, 33, 733.6.	0.5	1
12	Breathing regulation and blood gas homeostasis after near complete lesions of the retrotrapezoid nucleus in adult rats. <i>Journal of Physiology</i> , 2018, 596, 2521-2545.	2.9	47
13	Role of the median preoptic nucleus in the autonomic response to heat-exposure. <i>Temperature</i> , 2018, 5, 4-6.	3.0	12
14	Interdependent feedback regulation of breathing by the carotid bodies and the retrotrapezoid nucleus. <i>Journal of Physiology</i> , 2018, 596, 3029-3042.	2.9	40
15	Rostral Ventrolateral Medulla and Hypertension. <i>Hypertension</i> , 2018, 72, 559-566.	2.7	53
16	A Glutamatergic Hypothalamomedullary Circuit Mediates Thermogenesis, but Not Heat Conservation, during Stress-Induced Hyperthermia. <i>Current Biology</i> , 2018, 28, 2291-2301.e5.	3.9	39
17	Median preoptic glutamatergic neurons promote thermoregulatory heat loss and water consumption in mice. <i>Journal of Physiology</i> , 2017, 595, 6569-6583.	2.9	54
18	Reciprocal Control of Drinking Behavior by Median Preoptic Neurons in Mice. <i>Journal of Neuroscience</i> , 2016, 36, 8228-8237.	3.6	72

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19	Genetic identity of thermosensory relay neurons in the lateral parabrachial nucleus. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2016, 310, R41-R54.	1.8	85
20	Regulation of breathing by CO <sub>2</sub> requires the proton-activated receptor GPR4 in retrotrapezoid nucleus neurons. <i>Science</i> , 2015, 348, 1255-1260.	12.6	190
21	Vesicular glutamate transporter 2 is required for the respiratory and parasympathetic activation produced by optogenetic stimulation of catecholaminergic neurons in the rostral ventrolateral medulla of mice <i>in vivo</i> . <i>European Journal of Neuroscience</i> , 2014, 39, 98-106.	2.6	35
22	Optogenetic Stimulation of Adrenergic C1 Neurons Causes Sleep State-Dependent Cardiorespiratory Stimulation and Arousal with Sighs in Rats. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2014, 190, 1301-1310.	5.6	77
23	Chemoreception and asphyxia-induced arousal. <i>Respiratory Physiology and Neurobiology</i> , 2013, 188, 333-343.	1.6	36
24	The respiratory chemoreception conundrum: Light at the end of the tunnel?. <i>Brain Research</i> , 2013, 1511, 126-137.	2.2	26
25	Selective Optogenetic Activation of Rostral Ventrolateral Medullary Catecholaminergic Neurons Produces Cardiorespiratory Stimulation in Conscious Mice. <i>Journal of Neuroscience</i> , 2013, 33, 3164-3177.	3.6	95
26	C1 neurons: the body's EMTs. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2013, 305, R187-R204.	1.8	219
27	Optogenetic Stimulation of C1 and Retrotrapezoid Nucleus Neurons Causes Sleep State-Dependent Cardiorespiratory Stimulation and Arousal in Rats. <i>Hypertension</i> , 2013, 61, 835-841.	2.7	53
28	Wild-type microglia arrest pathology in a mouse model of Rett syndrome. <i>Nature</i> , 2012, 484, 105-109.	27.8	547
29	Phox2b-Expressing Neurons of the Parafacial Region Regulate Breathing Rate, Inspiration, and Expiration in Conscious Rats. <i>Journal of Neuroscience</i> , 2011, 31, 16410-16422.	3.6	113
30	Central CO <sub>2</sub> chemoreception and integrated neural mechanisms of cardiovascular and respiratory control. <i>Journal of Applied Physiology</i> , 2010, 108, 995-1002.	2.5	109
31	Photostimulation of Retrotrapezoid Nucleus Phox2b-Expressing Neurons <i>In Vivo</i> Produces Long-Lasting Activation of Breathing in Rats. <i>Journal of Neuroscience</i> , 2009, 29, 5806-5819.	3.6	188
32	Galanin microinjection into rostral ventrolateral medulla of the rat is hypotensive and attenuates sympathetic chemoreflex. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2009, 296, R1019-R1026.	1.8	30
33	Retrotrapezoid nucleus, respiratory chemosensitivity and breathing automaticity. <i>Respiratory Physiology and Neurobiology</i> , 2009, 168, 59-68.	1.6	87
34	Galanin microinjection into the PreBötzing or the Bötzing Complex terminates central inspiratory activity and reduces responses to hypoxia and hypercapnia in rat. <i>Respiratory Physiology and Neurobiology</i> , 2009, 167, 299-306.	1.6	21
35	Photostimulation of channelrhodopsin-2 expressing ventrolateral medullary neurons increases sympathetic nerve activity and blood pressure in rats. <i>Journal of Physiology</i> , 2009, 587, 5613-5631.	2.9	101