

# Christian Gestreau

## List of Publications by Year in descending order

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Version: 2024-02-01

47  
papers

1,715  
citations

236833

25  
h-index

276775

41  
g-index

47  
all docs

47  
docs citations

47  
times ranked

1752  
citing authors

#	ARTICLE	IF	CITATIONS
1	Task2 potassium channels set central respiratory CO <sub>2</sub> and O <sub>2</sub> sensitivity. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 2325-2330.	3.3	132
2	Activation of XII motoneurons and premotor neurons during various oropharyngeal behaviors. Respiratory Physiology and Neurobiology, 2005, 147, 159-176.	0.7	108
3	TASK-2 Channels Contribute to pH Sensitivity of Retrotrapezoid Nucleus Chemoreceptor Neurons. Journal of Neuroscience, 2013, 33, 16033-16044.	1.7	98
4	Medullary respiratory neurones and control of laryngeal motoneurons during fictive eupnoea and cough in the cat. Journal of Physiology, 2001, 534, 565-581.	1.3	94
5	The H3K27 Demethylase JMJD3 Is Required for Maintenance of the Embryonic Respiratory Neuronal Network, Neonatal Breathing, and Survival. Cell Reports, 2012, 2, 1244-1258.	2.9	94
6	Activity of dorsal respiratory group inspiratory neurons during laryngeal-induced fictive coughing and swallowing in decerebrate cats. Experimental Brain Research, 1996, 108, 247-56.	0.7	92
7	Differential Brainstem Fos-Like Immunoreactivity after Laryngeal-Induced Coughing and Its Reduction by Codeine. Journal of Neuroscience, 1997, 17, 9340-9352.	1.7	84
8	Activation of Orexin B receptors in the pontine KÄ¶lliker-Fuse nucleus modulates pre-inspiratory hypoglossal motor activity in rat. Respiratory Physiology and Neurobiology, 2007, 159, 232-235.	0.7	71
9	Activity of respiratory laryngeal motoneurons during fictive coughing and swallowing. Experimental Brain Research, 2000, 130, 27-34.	0.7	66
10	Fos expression in the rat brain after exposure to gravito-inertial force changes. Brain Research, 2000, 861, 333-344.	1.1	64
11	Upper Airway Dysfunction of Tau-P301L Mice Correlates with Tauopathy in Midbrain and Ponto-Medullary Brainstem Nuclei. Journal of Neuroscience, 2010, 30, 1810-1821.	1.7	59
12	The brainstem respiratory network: An overview of a half century of research. Respiratory Physiology and Neurobiology, 2009, 168, 4-12.	0.7	57
13	Neuroanatomical, Sensorimotor and Cognitive Deficits in Adult Rats with White Matter Injury Following Prenatal Ischemia. Brain Pathology, 2012, 22, 1-16.	2.1	56
14	The dual role of the orexin/hypocretin system in modulating wakefulness and respiratory drive. Current Opinion in Pulmonary Medicine, 2008, 14, 512-518.	1.2	49
15	The role of pH-sensitive TASK channels in central respiratory chemoreception. Pflugers Archiv European Journal of Physiology, 2015, 467, 917-929.	1.3	48
16	Fos expression in the cat brainstem after unilateral vestibular neurectomy. Brain Research, 1999, 824, 1-17.	1.1	43
17	Is there tonic activity in the endogenous opioid systems? A c-Fos study in the rat central nervous system after intravenous injection of naloxone or naloxone-methiodide. Journal of Comparative Neurology, 2000, 427, 285-301.	0.9	42
18	Specific and artifactual labeling in the rat spinal cord and medulla after injection of monosynaptic retrograde tracers into the diaphragm. Neuroscience Letters, 2007, 417, 206-211.	1.0	38

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19	Effects of anesthetics on hypoglossal nerve discharge and c-fos expression in brainstem hypoglossal premotor neurons. <i>Journal of Comparative Neurology</i> , 2004, 468, 571-586.	0.9	37
20	Discharge Patterns of Hypoglossal Motoneurons During Fictive Breathing, Coughing, and Swallowing. <i>Journal of Neurophysiology</i> , 2002, 87, 1703-1711.	0.9	36
21	Sensitivity to naloxone of the behavioral signs of morphine withdrawal and c-Fos expression in the rat CNS: A quantitative dose-response analysis. <i>Journal of Comparative Neurology</i> , 2001, 433, 272-296.	0.9	33
22	Age-Related Impairment of Ultrasonic Vocalization in Tau.P301L Mice: Possible Implication for Progressive Language Disorders. <i>PLoS ONE</i> , 2011, 6, e25770.	1.1	33
23	Postnatal emergence of synaptic plasticity associated with dynamic adaptation of the respiratory motor pattern. <i>Respiratory Physiology and Neurobiology</i> , 2008, 164, 72-79.	0.7	32
24	Raph $\ddot{A}$ © tauopathy alters serotonin metabolism and breathing activity in terminal Tau.P301L mice: Possible implications for tauopathies and Alzheimer's disease. <i>Respiratory Physiology and Neurobiology</i> , 2011, 178, 290-303.	0.7	31
25	Central Neural Circuits for Coordination of Swallowing, Breathing, and Coughing. <i>Otolaryngologic Clinics of North America</i> , 2013, 46, 957-964.	0.5	31
26	Peripheral Chemosensitivity and Central Integration: Neuroplasticity of Catecholaminergic Cells Under Hypoxia. <i>Comparative Biochemistry and Physiology A, Comparative Physiology</i> , 1997, 118, 1-7.	0.7	22
27	Isoflurane anesthesia precipitates tauopathy and upper airways dysfunction in pre-symptomatic Tau.P301L mice: Possible implication for neurodegenerative diseases. <i>Neurobiology of Disease</i> , 2012, 46, 234-243.	2.1	21
28	KCNK5 channels mostly expressed in cochlear outer sulcus cells are indispensable for hearing. <i>Nature Communications</i> , 2015, 6, 8780.	5.8	21
29	Central Respiration and Mechanical Ventilation in the Gating of Swallow With Breathing. <i>Frontiers in Physiology</i> , 2018, 9, 785.	1.3	20
30	Stimulation of the rat medullary raphe nuclei induces differential responses in respiratory muscle activity. <i>Respiratory Physiology and Neurobiology</i> , 2009, 165, 208-214.	0.7	19
31	Morphine withdrawal precipitated by specific mu, delta or kappa opioid receptor antagonists: a c-Fos protein study in the rat central nervous system. <i>European Journal of Neuroscience</i> , 2003, 17, 2425-2437.	1.2	18
32	Erythropoietin and its antagonist regulate hypoxic fictive breathing in newborn mice. <i>Respiratory Physiology and Neurobiology</i> , 2012, 183, 115-121.	0.7	16
33	Time- and dose-related effects of three 5-HT receptor ligands on the genioglossus activity in anesthetized and conscious rats. <i>Sleep and Breathing</i> , 2007, 11, 275-284.	0.9	13
34	Differential respiratory control of the upper airway and diaphragm muscles induced by 5-HT1A receptor ligands. <i>Sleep and Breathing</i> , 2012, 16, 135-147.	0.9	11
35	Moderate Hyperbilirubinemia Alters Neonatal Cardiorespiratory Control and Induces Inflammation in the Nucleus Tractus Solitarius. <i>Frontiers in Physiology</i> , 2016, 7, 437.	1.3	8
36	Quipazine Elicits Swallowing in the Arterially Perfused Rat Preparation: A Role for Medullary Raphe Nuclei?. <i>International Journal of Molecular Sciences</i> , 2020, 21, 5120.	1.8	7

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37	Polycythemia and high levels of erythropoietin in blood and brain blunt the hypercapnic ventilatory response in adult mice. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2016, 310, R979-R991.	0.9	4
38	Carbamylated erythropoietin enhances mice ventilatory responses to changes in O <sub>2</sub> but not CO <sub>2</sub> levels. <i>Respiratory Physiology and Neurobiology</i> , 2016, 232, 1-12.	0.7	2
39	NEUROGENESIS OF AIRWAY PROTECTIVE BEHAVIORS IN THE CAT: COUGH AND PHARYNGEAL SWALLOW. <i>FASEB Journal</i> , 2009, 23, 1010.4.	0.2	2
40	Assessment of the Use of Multi-Channel Organic Electrodes to Record ENG on Small Nerves: Application to Phrenic Nerve Burst Detection. <i>Sensors</i> , 2021, 21, 5594.	2.1	1
41	Coordination of swallow and breathing: in vivo and computational model simulations (1178.12). <i>FASEB Journal</i> , 2014, 28, 1178.12.	0.2	1
42	New insights into a decerebrate feline model of swallow-breathing coordination. <i>FASEB Journal</i> , 2018, 32, 913.9.	0.2	1
43	The mechanical advantage of negative intra-thoracic pressure during swallow. <i>FASEB Journal</i> , 2013, 27, 930.14.	0.2	0
44	TASK <sub>2</sub> channels contribute to pH sensitivity of retrotrapezoid nucleus chemoreceptor neurons (872.4). <i>FASEB Journal</i> , 2014, 28, 872.4.	0.2	0
45	Swallowing-Related Activities of Respiratory and Non-Respiratory Neurons in the Nucleus Tractus Solitarius (NTS) in Cats. <i>FASEB Journal</i> , 2015, 29, 1012.13.	0.2	0
46	Cluster Analysis of Neuronal Discharge Patterns During Breathing and the Laryngeal Adductor Reflex with Computer Simulations and Dynamic Visualizations. <i>FASEB Journal</i> , 2019, 33, 547.4.	0.2	0
47	Laryngeal Adductor Reflex Motor Bursts Rapidly Oscillate in the Cat. <i>FASEB Journal</i> , 2020, 34, 1-1.	0.2	0