

Jens C Rekling

List of Publications by Year in descending order

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29
papers

2,592
citations

623734

14
h-index

501196

28
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all docs

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docs citations

29
times ranked

2162
citing authors

#	ARTICLE	IF	CITATIONS
1	Modulation of Respiratory Frequency by Peptidergic Input to Rhythmogenic Neurons in the PreBötzing Complex. <i>Science</i> , 1999, 286, 1566-1568.	12.6	613
2	PREBÖTZINGER COMPLEX AND PACEMAKER NEURONS: Hypothesized Site and Kernel for Respiratory Rhythm Generation. <i>Annual Review of Physiology</i> , 1998, 60, 385-405.	13.1	541
3	Synaptic Control of Motoneuronal Excitability. <i>Physiological Reviews</i> , 2000, 80, 767-852.	28.8	527
4	Electrical Coupling and Excitatory Synaptic Transmission between Rhythmogenic Respiratory Neurons in the PreBötzing Complex. <i>Journal of Neuroscience</i> , 2000, 20, RC113-RC113.	3.6	160
5	Profiling of G protein-coupled receptors in vagal afferents reveals novel gut-to-brain sensing mechanisms. <i>Molecular Metabolism</i> , 2018, 12, 62-75.	6.5	124
6	Neuroprotective effects of anticonvulsants in rat hippocampal slice cultures exposed to oxygen/glucose deprivation. <i>Neuroscience Letters</i> , 2003, 335, 167-170.	2.1	116
7	The Histone Demethylase Jarid1b Ensures Faithful Mouse Development by Protecting Developmental Genes from Aberrant H3K4me3. <i>PLoS Genetics</i> , 2013, 9, e1003461.	3.5	114
8	Calcium-Dependent Plateau Potentials in Rostral Ambiguous Neurons in the Newborn Mouse Brain Stem In Vitro. <i>Journal of Neurophysiology</i> , 1997, 78, 2483-2492.	1.8	62
9	Bidirectional Electrical Coupling Between Inspiratory Motoneurons in the Newborn Mouse Nucleus Ambiguus. <i>Journal of Neurophysiology</i> , 1997, 78, 3508-3510.	1.8	52
10	The effect of two lipophilic γ -aminobutyric acid uptake blockers in CA1 of the rat hippocampal slice. <i>British Journal of Pharmacology</i> , 1990, 99, 103-106.	5.4	39
11	Dendritic Calcium Activity Precedes Inspiratory Bursts in preBötzing Complex Neurons. <i>Journal of Neuroscience</i> , 2011, 31, 1017-1022.	3.6	39
12	Interaction between thyrotropin-releasing hormone (TRH) and NMDA-receptor-mediated responses in hypoglossal motoneurons. <i>Brain Research</i> , 1992, 578, 289-296.	2.2	34
13	Brainstem neurons projecting to the rostral ventral respiratory group (rVRG) in the medulla oblongata of the rat revealed by co-application of NMDA and biocytin. <i>Brain Research</i> , 1998, 782, 113-125.	2.2	32
14	The role of PHOX2B-derived astrocytes in chemosensory control of breathing and sleep homeostasis. <i>Journal of Physiology</i> , 2019, 597, 2225-2251.	2.9	27
15	Hypoglossal motoneurons in newborn mice receive respiratory drive from both sides of the medulla. <i>Neuroscience</i> , 2009, 161, 259-268.	2.3	14
16	Organotypic slice cultures containing the preBötzing complex generate respiratory-like rhythms. <i>Journal of Neurophysiology</i> , 2016, 115, 1063-1070.	1.8	14
17	Spontaneous cluster activity in the inferior olivary nucleus in brainstem slices from postnatal mice. <i>Journal of Physiology</i> , 2012, 590, 1547-1562.	2.9	13
18	NK-3 receptor activation depolarizes and induces an after-depolarization in pyramidal neurons in gerbil cingulate cortex. <i>Brain Research Bulletin</i> , 2004, 63, 85-90.	3.0	12

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19	Dendritic A-Current in Rhythmically Active PreBötzing Complex Neurons in Organotypic Cultures from Newborn Mice. <i>Journal of Neuroscience</i> , 2018, 38, 3039-3049.	3.6	11
20	Neurons in the preBötzing complex and VRG are located in proximity to arterioles in newborn mice. <i>Neuroscience Letters</i> , 2009, 450, 229-234.	2.1	9
21	Development of a No-Wash Assay for Mitochondrial Membrane Potential Using the Styryl Dye DASPEI. <i>Journal of Biomolecular Screening</i> , 2010, 15, 1071-1081.	2.6	7
22	Spontaneous calcium waves in granule cells in cerebellar slice cultures. <i>Neuroscience Letters</i> , 2013, 553, 78-83.	2.1	7
23	Mechanisms contributing to cluster formation in the inferior olivary nucleus in brainstem slices from postnatal mice. <i>Journal of Physiology</i> , 2014, 592, 33-47.	2.9	7
24	Population calcium imaging of spontaneous respiratory and novel motor activity in the facial nucleus and ventral brainstem in newborn mice. <i>Journal of Physiology</i> , 2011, 589, 2543-2558.	2.9	6
25	GABAergic Inhibition of Presynaptic Ca ²⁺ Transients in Respiratory PreBötzing Neurons in Organotypic Slice Cultures. <i>ENeuro</i> , 2021, 8, ENEURO.0154-21.2021.	1.9	4
26	NPFF Decreases Activity of Human Arcuate NPY Neurons: A Study in Embryonic-Stem-Cell-Derived Model. <i>International Journal of Molecular Sciences</i> , 2022, 23, 3260.	4.1	4
27	Fast neuronal labeling in live tissue using a biocytin conjugated fluorescent probe. <i>Journal of Neuroscience Methods</i> , 2015, 253, 101-109.	2.5	3
28	Bile acids induce Ca ²⁺ signaling and membrane permeabilizations in vagal nodose ganglion neurons. <i>Biochemistry and Biophysics Reports</i> , 2022, 31, 101288.	1.3	1
29	Thyrotropin-releasing hormone induces Ca ²⁺ increase in a subset of vagal nodose ganglion neurons. <i>Neuropeptides</i> , 2022, , 102261.	2.2	0