

Gay R Holstein

List of Publications by Year in descending order

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54
papers

2,550
citations

279798

23
h-index

197818

49
g-index

56
all docs

56
docs citations

56
times ranked

5197
citing authors

#	ARTICLE	IF	CITATIONS
1	Essential role for autophagy protein Atg7 in the maintenance of axonal homeostasis and the prevention of axonal degeneration. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 14489-14494.	7.1	560
2	Disrupted Autophagy Leads to Dopaminergic Axon and Dendrite Degeneration and Promotes Presynaptic Accumulation of α -Synuclein and LRRK2 in the Brain. Journal of Neuroscience, 2012, 32, 7585-7593.	3.6	268
3	Presenilin-1 Forms Complexes with the Cadherin/Catenin Cell-Cell Adhesion System and Is Recruited to Intercellular and Synaptic Contacts. Molecular Cell, 1999, 4, 893-902.	9.7	221
4	The Anatomy of the vestibular nuclei. Progress in Brain Research, 2006, 151, 157-203.	1.4	128
5	Infrared photostimulation of the crista ampullaris. Journal of Physiology, 2011, 589, 1283-1294.	2.9	80
6	Presence of glutamate, glycine, and γ -aminobutyric acid in the retina of the larval sea lamprey: Comparative immunohistochemical study of classical neurotransmitters in larval and postmetamorphic retinas. Journal of Comparative Neurology, 2006, 499, 810-827.	1.6	67
7	Evidence that protons act as neurotransmitters at vestibular hair cell calyx afferent synapses. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 5421-5426.	7.1	66
8	GABAergic elements in the neuronal circuits of the monkey neostriatum: A light and electron microscopic immunocytochemical study. Journal of Comparative Neurology, 1988, 270, 157-170.	1.6	65
9	Convergence of excitatory and inhibitory hair cell transmitters shapes vestibular afferent responses. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 15766-15771.	7.1	59
10	Direct projections from the caudal vestibular nuclei to the ventrolateral medulla in the rat. Neuroscience, 2011, 175, 104-117.	2.3	57
11	Determinants of Spatial and Temporal Coding by Semicircular Canal Afferents. Journal of Neurophysiology, 2005, 93, 2359-2370.	1.8	55
12	γ -Baclofen-sensitive GABAB binding sites in the medial vestibular nucleus localized by immunocytochemistry. Brain Research, 1992, 581, 175-180.	2.2	54
13	Coupling of Neuronal Nitric Oxide Synthase to NMDA Receptors via Postsynaptic Density-95 Depends on Estrogen and Contributes to the Central Control of Adult Female Reproduction. Journal of Neuroscience, 2007, 27, 6103-6114.	3.6	51
14	What Does Galvanic Vestibular Stimulation Actually Activate?. Frontiers in Neurology, 2012, 2, 90.	2.4	51
15	Projection neurons of the vestibulo-sympathetic reflex pathway. Journal of Comparative Neurology, 2014, 522, 2053-2074.	1.6	50
16	γ -Aminobutyric acid is present in a spatially discrete subpopulation of hair cells in the crista ampullaris of the toadfish <i>Opsanus tau</i> . Journal of Comparative Neurology, 2004, 471, 1-10.	1.6	44
17	Subscribe to Alerts Search Article Type Publication Date Go Author Info Why Submit? Fees Article Types Author Guidelines Submission Checklist Contact Editorial Office Submit Manuscript Original Research ARTICLE This article is part of a Research Topic 0 Share Facebook LinkedIn Like 0 Comment 0 Share 0 Fos expression in neurons of the rat vestibulo-autonomic pathway activated by sinusoidal galvanic vestibular s. Frontiers in Neurology, 2012, 3, 4.	2.4	43
18	Synaptic cleft microenvironment influences potassium permeation and synaptic transmission in hair cells surrounded by calyx afferents in the turtle. Journal of Physiology, 2020, 598, 853-889.	2.9	38

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19	Sinusoidal galvanic vestibular stimulation (sGVS) induces a vasovagal response in the rat. <i>Experimental Brain Research</i> , 2011, 210, 45-55.	1.5	37
20	Imidazoleacetic acid-ribotide: An endogenous ligand that stimulates imidazol(in)e receptors. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004, 101, 13677-13682.	7.1	35
21	Vestibular Experiments in Space. <i>Advances in Space Biology and Medicine</i> , 2005, 10, 105-164.	0.5	35
22	Loss of GABAB Receptors in Cochlear Neurons: Threshold Elevation Suggests Modulation of Outer Hair Cell Function by Type II Afferent Fibers. <i>JARO - Journal of the Association for Research in Otolaryngology</i> , 2009, 10, 50-63.	1.8	30
23	Glycine-immunoreactive neurons in the developing spinal cord of the sea lamprey: Comparison with the P^3 -aminobutyric acidergic system. <i>Journal of Comparative Neurology</i> , 2008, 508, 112-130.	1.6	25
24	What Does Galvanic Vestibular Stimulation Actually Activate: Response. <i>Frontiers in Neurology</i> , 2012, 3, 148.	2.4	23
25	Glutamate and GABA in Vestibulo-Sympathetic Pathway Neurons. <i>Frontiers in Neuroanatomy</i> , 2016, 10, 7.	1.7	23
26	Ultrastructural observations of efferent terminals in the crista Ampullaris of the toadfish, <i>opsanus tau</i> . <i>Experimental Brain Research</i> , 2004, 155, 265-273.	1.5	22
27	The quantal component of synaptic transmission from sensory hair cells to the vestibular calyx. <i>Journal of Neurophysiology</i> , 2015, 113, 3827-3835.	1.8	22
28	Suppression of grasshopper sound production by nitric oxide-releasing neurons of the central complex. <i>Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology</i> , 2008, 194, 763-776.	1.6	20
29	The vasovagal response of the rat: its relation to the vestibulosympathetic reflex and to Mayer waves. <i>FASEB Journal</i> , 2013, 27, 2564-2572.	0.5	20
30	Protein Citrullination: A Proposed Mechanism for Pathology in Traumatic Brain Injury. <i>Frontiers in Neurology</i> , 2015, 6, 204.	2.4	20
31	Vestibular neurons with direct projections to the solitary nucleus in the rat. <i>Journal of Neurophysiology</i> , 2019, 122, 512-524.	1.8	20
32	Synapses between GABA-immunoreactive axonal and dendritic elements in monkey substantia nigra. <i>Neuroscience Letters</i> , 1986, 66, 316-322.	2.1	19
33	GABAergic Neurons in the Primate Vestibular Nuclei. <i>Annals of the New York Academy of Sciences</i> , 1996, 781, 443-457.	3.8	19
34	NO/cGMP signalling: L-citrulline and cGMP immunostaining in the central complex of the desert locust <i>Schistocerca gregaria</i> . <i>Cell and Tissue Research</i> , 2009, 337, 327-340.	2.9	19
35	Anatomical observations of the caudal vestibulo-sympathetic pathway. <i>Journal of Vestibular Research: Equilibrium and Orientation</i> , 2011, 21, 49-62.	2.0	19
36	Vasovagal Oscillations and Vasovagal Responses Produced by the Vestibulo-Sympathetic Reflex in the Rat. <i>Frontiers in Neurology</i> , 2014, 5, 37.	2.4	17

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37	Monoclonal Lâ€Citrulline Immunostaining Reveals Nitric Oxideâ€Producing Vestibular Neurons. <i>Annals of the New York Academy of Sciences</i> , 2001, 942, 65-78.	3.8	14
38	Distribution and cellular localization of imidazoleacetic acid-ribotide, an endogenous ligand at imidazol(in)e and adrenergic receptors, in rat brain. <i>Journal of Chemical Neuroanatomy</i> , 2007, 33, 53-64.	2.1	13
39	The Vestibular System. , 2012, , 1239-1269.		13
40	Development of nitrenergic neurons in the nervous system of the locust embryo. <i>Journal of Comparative Neurology</i> , 2010, 518, spc1-spc1.	1.6	12
41	GABAergic system of the pineal organ of an elasmobranch (<i>Scyliorhinus canicula</i>): a developmental immunocytochemical study. <i>Cell and Tissue Research</i> , 2006, 323, 273-281.	2.9	11
42	Vestibular neurons in the rat contain imidazoleacetic acid-ribotide, a putative neurotransmitter involved in blood pressure regulation. <i>Journal of Comparative Neurology</i> , 2007, 501, 568-581.	1.6	11
43	Simultaneous Dual Recordings From Vestibular Hair Cells and Their Calyx Afferents Demonstrate Multiple Modes of Transmission at These Specialized Endings. <i>Frontiers in Neurology</i> , 0, 13, .	2.4	11
44	Immunocytochemical Visualization of l-Baclofen-Sensitive GABABBinding Sites in the Medial Vestibular Nucleus. <i>Annals of the New York Academy of Sciences</i> , 1992, 656, 933-936.	3.8	10
45	Development of nitrenergic neurons in the nervous system of the locust embryo. <i>Journal of Comparative Neurology</i> , 2009, 518, n/a-n/a.	1.6	10
46	Gamma-aminobutyric acid is a neurotransmitter in the auditory pathway of oyster toadfish, <i>Opsanus tau</i> . <i>Hearing Research</i> , 2010, 262, 45-55.	2.0	10
47	Synapsin-like immunoreactivity is present in hair cells and efferent terminals of the toadfish crista ampullaris. <i>Experimental Brain Research</i> , 2005, 162, 287-292.	1.5	7
48	Imidazoleacetic acid-ribotide in vestibulo-sympathetic pathway neurons. <i>Experimental Brain Research</i> , 2016, 234, 2747-2760.	1.5	6
49	NADPH-Diaphorase Histochemical Staining in the Rat Vestibular Nuclei during Postnatal Development. <i>Annals of the New York Academy of Sciences</i> , 1996, 781, 696-699.	3.8	4
50	Chapter 8 Using Genetic Mouse Models to Study the Biology and Pathology of Autophagy in the Central Nervous System. <i>Methods in Enzymology</i> , 2009, 453, 159-180.	1.0	4
51	Pulsed Infrared Stimulation of Vertical Semicircular Canals Evokes Cardiovascular Changes in the Rat. <i>Frontiers in Neurology</i> , 2021, 12, 680044.	2.4	2
52	Morphophysiological Organization of Vestibulo-Autonomic Pathways. , 2020, , 432-444.		2
53	Imidazoleacetic acid-ribotide in the rodent striatum: A putative neurochemical link between motor and autonomic deficits in parkinsonâ€™s disease. <i>Acta Biologica Hungarica</i> , 2012, 63, 5-18.	0.7	1
54	Synaptic Transmission Between Hair Cells and Afferent Fibers. , 2020, , 185-210.		0