Gay R Holstein

List of Publications by Year
in descending order

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	Pulsed Infrared Stimulation of Vertical Semicircular Canals Evokes Cardiovascular Changes in the Rat. Frontiers in Neurology, 2021, 12, 680044.	2.4	2
2	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
3	Synaptic Transmission Between Hair Cells and Afferent Fibers. , 2020, , 185-210.		0
4	Morphophysiological Organization of Vestibulo-Autonomic Pathways. , 2020, , 432-444.		2
5	Vestibular neurons with direct projections to the solitary nucleus in the rat. Journal of Neurophysiology, 2019, 122, 512-524.	1.8	20
6	Glutamate and GABA in Vestibulo-Sympathetic Pathway Neurons. Frontiers in Neuroanatomy, 2016, 10, 7.	1.7	23
7	Imidazoleacetic acid-ribotide in vestibulo-sympathetic pathway neurons. Experimental Brain Research, 2016, 234, 2747-2760.	1.5	6
8	Protein Citrullination: A Proposed Mechanism for Pathology in Traumatic Brain Injury. Frontiers in Neurology, 2015, 6, 204.	2.4	20
9	The quantal component of synaptic transmission from sensory hair cells to the vestibular calyx. Journal of Neurophysiology, 2015, 113, 3827-3835.	1.8	22
10	Vasovagal Oscillations and Vasovagal Responses Produced by the Vestibulo-Sympathetic Reflex in the Rat. Frontiers in Neurology, 2014, 5, 37.	2.4	17
11	Projection neurons of the vestibuloâ€sympathetic reflex pathway. Journal of Comparative Neurology, 2014, 522, 2053-2074.	1.6	50
12	Evidence that protons act as neurotransmitters at vestibular hair cellâ€“calyx afferent synapses. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 5421-5426.	7.1	66
13	The vasovagal response of the rat: its relation to the vestibulosympathetic reflex and to Mayer waves. FASEB Journal, 2013, 27, 2564-2572.	0.5	20
14	What Does Galvanic Vestibular Stimulation Actually Activate: Response. Frontiers in Neurology, 2012, 3, 148.	2.4	23
15	Imidazoleacetic acid-ribotide in the rodent striatum: A putative neurochemical link between motor and autonomic deficits in parkinsonâ€™s disease. Acta Biologica Hungarica, 2012, 63, 5-18.	0.7	1
16	The Vestibular System. , 2012, , 1239-1269.		13
17	Disrupted Autophagy Leads to Dopaminergic Axon and Dendrite Degeneration and Promotes Presynaptic Accumulation of Î±-Synuclein and LRRK2 in the Brain. Journal of Neuroscience, 2012, 32, 7585-7593.	3.6	268
18	What Does Galvanic Vestibular Stimulation Actually Activate?. Frontiers in Neurology, 2012, 2, 90.	2.4	51

#	Article	IF	Citations
19	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
20	Direct projections from the caudal vestibular nuclei to the ventrolateral medulla in the rat. Neuroscience, 2011, 175, 104-117.	2.3	57
21	Anatomical observations of the caudal vestibulo-sympathetic pathway. Journal of Vestibular Research: Equilibrium and Orientation, 2011, 21, 49-62.	2.0	19
22	Infrared photostimulation of the crista ampullaris. Journal of Physiology, 2011, 589, 1283-1294.	2.9	80
23	Sinusoidal galvanic vestibular stimulation (sGVS) induces a vasovagal response in the rat. Experimental Brain Research, 2011, 210, 45-55.	1.5	37
24	Development of nitrergic neurons in the nervous system of the locust embryo. Journal of Comparative Neurology, 2010, 518, spc1-spc1.	1.6	12
25	Gamma-aminobutyric acid is a neurotransmitter in the auditory pathway of oyster toadfish, Opsanus tau. Hearing Research, 2010, 262, 45-55.	2.0	10
26	Chapter 8 Using Genetic Mouse Models to Study the Biology and Pathology of Autophagy in the Central Nervous System. Methods in Enzymology, 2009, 453, 159-180.	1.0	4
27	Development of nitrergic neurons in the nervous system of the locust embryo. Journal of Comparative Neurology, 2009, 518, n/a-n/a.	1.6	10
28	NO/cGMP signalling: L-citrulline and cGMP immunostaining in the central complex of the desert locust Schistocerca gregaria. Cell and Tissue Research, 2009, 337, 327-340.	2.9	19
29	Loss of GABAB Receptors in Cochlear Neurons: Threshold Elevation Suggests Modulation of Outer Hair Cell Function by Type II Afferent Fibers. JARO - Journal of the Association for Research in Otolaryngology, 2009, 10, 50-63.	1.8	30
30	Suppression of grasshopper sound production by nitric oxide-releasing neurons of the central complex. Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology, 2008, 194, 763-776.	1.6	20
31	Glycineâ€immunoreactive neurons in the developing spinal cord of the sea lamprey: Comparison with the Î³â€aminobutyric acidergic system. Journal of Comparative Neurology, 2008, 508, 112-130.	1.6	25
32	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
33	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
34	Distribution and cellular localization of imidazoleacetic acid-ribotide, an endogenous ligand at imidazol(in)e and adrenergic receptors, in rat brain. Journal of Chemical Neuroanatomy, 2007, 33, 53-64.	2.1	13
35	Vestibular neurons in the rat contain imidazoleacetic acid-ribotide, a putative neurotransmitter involved in blood pressure regulation. Journal of Comparative Neurology, 2007, 501, 568-581.	1.6	11
36	GABAergic system of the pineal organ of an elasmobranch (Scyliorhinus canicula): a developmental immunocytochemical study. Cell and Tissue Research, 2006, 323, 273-281.	2.9	11

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37	Presence of glutamate, glycine, and Î³-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
38	The Anatomy of the vestibular nuclei. Progress in Brain Research, 2006, 151, 157-203.	1.4	128
39	Determinants of Spatial and Temporal Coding by Semicircular Canal Afferents. Journal of Neurophysiology, 2005, 93, 2359-2370.	1.8	55
40	Vestibular Experiments in Space. Advances in Space Biology and Medicine, 2005, 10, 105-164.	0.5	35
41	Synapsin-like immunoreactivity is present in hair cells and efferent terminals of the toadfish crista ampullaris. Experimental Brain Research, 2005, 162, 287-292.	1.5	7
42	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
43	Imidazoleacetic acid-ribotide: An endogenous ligand that stimulates imidazol(in)e receptors. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 13677-13682.	7.1	35
44	Ultrastructural observations of efferent terminals in the crista Ampullaris of the toadfish, opsanus tau. Experimental Brain Research, 2004, 155, 265-273.	1.5	22
45	?-Aminobutyric acid is present in a spatially discrete subpopulation of hair cells in the crista ampullaris of the toadfishOpsanus tau. Journal of Comparative Neurology, 2004, 471, 1-10.	1.6	44
46	Monoclonal Lâ€Citrulline Immunostaining Reveals Nitric Oxideâ€Producing Vestibular Neurons. Annals of the New York Academy of Sciences, 2001, 942, 65-78.	3.8	14
47	Presenilin-1 Forms Complexes with the Cadherin/Catenin Cellâ€“Cell Adhesion System and Is Recruited to Intercellular and Synaptic Contacts. Molecular Cell, 1999, 4, 893-902.	9.7	221
48	GABAergic Neurons in the Primate Vestibular Nuclei. Annals of the New York Academy of Sciences, 1996, 781, 443-457.	3.8	19
49	NADPH-Diaphorase Histochemical Staining in the Rat Vestibular Nuclei during Postnatal Development. Annals of the New York Academy of Sciences, 1996, 781, 696-699.	3.8	4
50	Immunocytochemical Visualization of l-Baclofen-Sensitive GABABBinding Sites in the Medial Vestibular Nucleus. Annals of the New York Academy of Sciences, 1992, 656, 933-936.	3.8	10
51	l-Baclofen-sensitive GABAB binding sites in the medial vestibular nucleus localized by immunocytochemistry. Brain Research, 1992, 581, 175-180.	2.2	54
52	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
53	Synapses between GABA-immunoreactive axonal and dendritic elements in monkey substantia nigra. Neuroscience Letters, 1986, 66, 316-322.	2.1	19
54	Simultaneous Dual Recordings From Vestibular Hair Cells and Their Calyx Afferents Demonstrate Multiple Modes of Transmission at These Specialized Endings. Frontiers in Neurology, 0, 13, .	2.4	11