

Gerald A Higgins

List of Publications by Year in Descending Order

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Version: 2024-04-25

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

61
papers

8,863
citations

27
h-index

64
g-index

64
ext. papers

9,826
ext. citations

8.2
avg. IF

5.76
L-index

#	Paper	IF	Citations
61	Chronic psychological stress alters gene expression in rat colon epithelial cells promoting chromatin remodeling, barrier dysfunction and inflammation.. <i>PeerJ</i> , 2022 , 10, e13287	3.1	1
60	The Role of Epigenomic Regulatory Pathways in the Gut-Brain Axis and Visceral Hyperalgesia. <i>Cellular and Molecular Neurobiology</i> , 2021 , 1	4.6	1
59	Valproic acid-induced changes of 4D nuclear morphology in astrocyte cells. <i>Molecular Biology of the Cell</i> , 2021 , 32, 1624-1633	3.5	2
58	Early single-dose treatment with exosomes provides neuroprotection and improves blood-brain barrier integrity in swine model of traumatic brain injury and hemorrhagic shock. <i>Journal of Trauma and Acute Care Surgery</i> , 2020 , 88, 207-218	3.3	26
57	Early treatment with exosomes following traumatic brain injury and hemorrhagic shock in a swine model promotes transcriptional changes associated with neuroprotection. <i>Journal of Trauma and Acute Care Surgery</i> , 2020 , 89, 536-543	3.3	8
56	Druggable Transcriptional Networks in the Human Neurogenic Epigenome. <i>Pharmacological Reviews</i> , 2019 , 71, 520-538	22.5	6
55	The pharmacoepigenomics informatics pipeline defines a pathway of novel and known warfarin pharmacogenomics variants. <i>Pharmacogenomics</i> , 2018 , 19, 413-434	2.6	2
54	Transcriptomic changes following valproic acid treatment promote neurogenesis and minimize secondary brain injury. <i>Journal of Trauma and Acute Care Surgery</i> , 2018 , 84, 459-465	3.3	24
53	Valproic acid induces prosurvival transcriptomic changes in swine subjected to traumatic injury and hemorrhagic shock. <i>Journal of Trauma and Acute Care Surgery</i> , 2018 , 84, 642-649	3.3	23
52	Deep learning in pharmacogenomics: from gene regulation to patient stratification. <i>Pharmacogenomics</i> , 2018 , 19, 629-650	2.6	80
51	Improvement of Blood-Brain Barrier Integrity in Traumatic Brain Injury and Hemorrhagic Shock Following Treatment With Valproic Acid and Fresh Frozen Plasma. <i>Critical Care Medicine</i> , 2018 , 46, e59-e66	1.4	29
50	Rapid valproic acid-induced modulation of the traumatic proteome in a porcine model of traumatic brain injury and hemorrhagic shock. <i>Journal of Surgical Research</i> , 2018 , 228, 84-92	2.5	7
49	A similarity-based approach to leverage multi-cohort medical data on the diagnosis and prognosis of Alzheimer's disease. <i>GigaScience</i> , 2018 , 7,	7.6	3
48	3D Cell Nuclear Morphology: Microscopy Imaging Dataset and Voxel-Based Morphometry Classification Results 2018 ,		8
47	Genome Architecture Mediates Transcriptional Control of Human Myogenic Reprogramming. <i>iScience</i> , 2018 , 6, 232-246	6.1	12
46	3D Shape Modeling for Cell Nuclear Morphological Analysis and Classification. <i>Scientific Reports</i> , 2018 , 8, 13658	4.9	11
45	Mining the topography and dynamics of the 4D Nucleome to identify novel CNS drug pathways. <i>Methods</i> , 2017 , 123, 102-118	4.6	10

44	Network Reconstruction Reveals that Valproic Acid Activates Neurogenic Transcriptional Programs in Adult Brain Following Traumatic Injury. <i>Pharmaceutical Research</i> , 2017 , 34, 1658-1672	4.5	21
43	Stress and glucocorticoid receptor transcriptional programming in time and space: Implications for the brain-gut axis. <i>Neurogastroenterology and Motility</i> , 2016 , 28, 12-25	4	33
42	Alterations in the human proteome following administration of valproic acid. <i>Journal of Trauma and Acute Care Surgery</i> , 2016 , 81, 1020-1027	3.3	25
41	A glutamatergic network mediates lithium response in bipolar disorder as defined by epigenome pathway analysis. <i>Pharmacogenomics</i> , 2015 , 16, 1547-63	2.6	27
40	The epigenome, 4D nucleome and next-generation neuropsychiatric pharmacogenomics. <i>Pharmacogenomics</i> , 2015 , 16, 1649-69	2.6	14
39	Epigenomic mapping and effect sizes of noncoding variants associated with psychotropic drug response. <i>Pharmacogenomics</i> , 2015 , 16, 1565-83	2.6	18
38	Integrating precision medicine in the study and clinical treatment of a severely mentally ill person. <i>PeerJ</i> , 2013 , 1, e177	3.1	8
37	Virtual reality simulation for the operating room: proficiency-based training as a paradigm shift in surgical skills training. <i>Annals of Surgery</i> , 2005 , 241, 364-72	7.8	697
36	The digital human: towards a unified ontology. <i>OMICS A Journal of Integrative Biology</i> , 2003 , 7, 421-4	3.8	2
35	Teleos—Development of a Software Toolkit for Authoring Virtual Medical Environments. <i>Presence: Teleoperators and Virtual Environments</i> , 1997 , 6, 241-252	2.9	3
34	New Simulation Technologies for Surgical Training and Certification: Current Status and Future Projections. <i>Presence: Teleoperators and Virtual Environments</i> , 1997 , 6, 160-172	2.9	15
33	In situ hybridization of calcium/calmodulin dependent protein kinase II and tau mRNAs; species differences and relative preservation in Alzheimer's disease. <i>Molecular Brain Research</i> , 1992 , 12, 85-94		31
32	Regulated splicing of the amyloid precursor protein gene during postnatal development of the rat basal forebrain. <i>Developmental Brain Research</i> , 1992 , 66, 63-9		15
31	Distribution and expression of SNAP-25 immunoreactivity in rat brain, rat PC-12 cells and human SMS-KCNR neuroblastoma cells. <i>Developmental Brain Research</i> , 1992 , 65, 133-46		43
30	Alzheimer's disease: the amyloid cascade hypothesis. <i>Science</i> , 1992 , 256, 184-5	33.3	4674
29	Neurotrophin Receptor Gene Expression. <i>Methods in Neurosciences</i> , 1992 , 166-178		
28	Amyloid plaques, neurofibrillary tangles and neuronal loss in brains of transgenic mice overexpressing a C-terminal fragment of human amyloid precursor protein. <i>Nature</i> , 1991 , 354, 476-8	50.4	87
27	Nerve growth factor receptor immunoreactivity in the new world monkey (<i>Cebus apella</i>) and human cerebellum. <i>Journal of Comparative Neurology</i> , 1991 , 308, 555-75	3.4	42

26	Differential regulation of the low-affinity nerve growth factor receptor during postnatal development of the rat brain. <i>Journal of Comparative Neurology</i> , 1991 , 313, 494-508	3.4	71
25	Increased abundance of alternatively spliced forms of D2 dopamine receptor mRNA after denervation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1991 , 88, 2802-6	11.5	84
24	Induction of interleukin-1 beta mRNA in adult rat brain. <i>Molecular Brain Research</i> , 1991 , 9, 143-8		138
23	Genetics and biology of the Alzheimer amyloid precursor. <i>Progress in Brain Research</i> , 1990 , 86, 257-67	2.9	24
22	Trophic regulation of basal forebrain gene expression in aging and Alzheimer's disease. <i>Progress in Brain Research</i> , 1990 , 86, 239-55	2.9	4
21	Altered levels of amyloid protein precursor transcripts in the basal forebrain of behaviorally impaired aged rats. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1990 , 87, 3032-6	11.5	60
20	Should a unified nomenclature be adopted for the amyloid protein of Alzheimer's disease?. <i>Neurobiology of Aging</i> , 1990 , 11, 61-2	5.6	4
19	The Alzheimer amyloid precursor-related transcript lacking the beta/A4 sequence is specifically increased in Alzheimer's disease brain. <i>Neuron</i> , 1990 , 5, 329-38	13.9	79
18	NGF induction of NGF receptor gene expression and cholinergic neuronal hypertrophy within the basal forebrain of the adult rat. <i>Neuron</i> , 1989 , 3, 247-56	13.9	240
17	Localization of nerve growth factor receptor messenger RNA and protein in the adult rat brain. <i>Experimental Neurology</i> , 1989 , 106, 209-21	5.7	139
16	NGF receptor gene expression is decreased in the nucleus basalis in Alzheimer's disease. <i>Experimental Neurology</i> , 1989 , 106, 222-36	5.7	137
15	NGF receptor reexpression and NGF-mediated cholinergic neuronal hypertrophy in the damaged adult neostriatum. <i>Neuron</i> , 1989 , 2, 1177-84	13.9	234
14	Cellular localization of 1B236/myelin-associated glycoprotein mRNA during rat brain development. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1989 , 86, 2074-8	11.5	19
13	The identification of a novel synaptosomal-associated protein, SNAP-25, differentially expressed by neuronal subpopulations. <i>Journal of Cell Biology</i> , 1989 , 109, 3039-52	7.3	710
12	In Situ Hybridization Approaches to Human Neurological Disease. <i>Methods in Neurosciences</i> , 1989 , 183-196		3
11	Differential regulation of amyloid-beta-protein mRNA expression within hippocampal neuronal subpopulations in Alzheimer disease. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1988 , 85, 1297-301	11.5	162
10	Distribution of precursor amyloid-beta-protein messenger RNA in human cerebral cortex: relationship to neurofibrillary tangles and neuritic plaques. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1988 , 85, 1691-5	11.5	84
9	Localization of amyloid beta protein messenger RNA in brains from patients with Alzheimer's disease. <i>Science</i> , 1987 , 237, 77-80	33.3	295

8	In situ hybridization of putative somatostatin mRNA within hypothalamus of the rat using synthetic oligonucleotide probes. <i>Journal of Cellular Biochemistry</i> , 1985 , 27, 415-22	4.7	54
7	Primary explants as a model of the hypothalamus in situ. <i>Peptides</i> , 1985 , 6, 249-56	3.8	15
6	Distribution of neurotensin-immunoreactivity within baroreceptive portions of the nucleus of the tractus solitarius and the dorsal vagal nucleus of the rat. <i>Journal of Comparative Neurology</i> , 1984 , 226, 155-64	3.4	85
5	Somatostatinergic projections from the central nucleus of the amygdala to the vagal nuclei. <i>Peptides</i> , 1983 , 4, 657-62	3.8	66
4	The origin and extent of direct amygdala projections to the region of the dorsal motor nucleus of the vagus and the nucleus of the solitary tract. <i>Neuroscience Letters</i> , 1980 , 20, 15-20	3.3	134
3	Ketamine pharmacogenomic network in human brain contains sub-networks associated with glutamate neurotransmission and with neuroplasticity		1
2	Valproic Acid-Induced Changes of 4D Nuclear Morphology in Astrocyte Cells		1
1	3D Cell Nuclear Morphology: Microscopy Imaging Dataset and Voxel-Based Morphometry Classification Results		4