Gerald A Higgins

List of Publications by Year
in descending order

58 papers	10,633 citations	185998 28 h-index	138251 58 g-index
64 all docs	64 docs citations	64 times ranked	11647 citing authors

#	Article	IF	Citations
1	Alzheimer's disease: the amyloid cascade hypothesis. Science, 1992, 256, 184-185.	6.0	5,910
2	Virtual Reality Simulation for the Operating Room. Annals of Surgery, 2005, 241, 364-372.	2.1	831
3	The identification of a novel synaptosomal-associated protein, SNAP-25, differentially expressed by neuronal subpopulations.. Journal of Cell Biology, 1989, 109, 3039-3052.	2.3	764
4	Localization of amyloid beta protein messenger RNA in brains from patients with Alzheimer's disease. Science, 1987, 237, 77-80.	6.0	308
5	NGF induction of NGF receptor gene expression and cholinergic neuronal hypertrophy within the basal forebrain of the adult rat. Neuron, 1989, 3, 247-256.	3.8	250
6	NGF receptor reexpression and NGF-mediated cholinergic neuronal hypertrophy in the damaged adult neostriatum. Neuron, 1989, 2, 1177-1184.	3.8	244
7	Differential regulation of amyloid-beta-protein mRNA expression within hippocampal neuronal subpopulations in Alzheimer disease.. Proceedings of the National Academy of Sciences of the United States of America, 1988, 85, 1297-1301.	3.3	170
8	Localization of nerve growth factor receptor messenger RNA and protein in the adult rat brain. Experimental Neurology, 1989, 106, 209-221.	2.0	156
9	NGF receptor gene expression is decreased in the nucleus basalis in Alzheimer's disease. Experimental Neurology, 1989, 106, 222-236.	2.0	151
10	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. Neuroscience Letters, 1980, 20, 15-20.	1.0	146
11	Induction of interleukin-1Î² mRNA in adult rat brain. Molecular Brain Research, 1991, 9, 143-148.	2.5	142
12	Deep learning in pharmacogenomics: from gene regulation to patient stratification. Pharmacogenomics, 2018, 19, 629-650.	0.6	119
13	Amyloid plaques, neurofibrillary tangles and neuronal loss in brains of transgenic mice overexpressing a C-terminal fragment of human amyloid precursor protein. Nature, 1991, 354, 476-478.	13.7	99
14	Increased abundance of alternatively spliced forms of D2 dopamine receptor mRNA after denervation.. Proceedings of the National Academy of Sciences of the United States of America, 1991, 88, 2802-2806.	3.3	93
15	Distribution of precursor amyloid-beta-protein messenger RNA in human cerebral cortex: relationship to neurofibrillary tangles and neuritic plaques.. Proceedings of the National Academy of Sciences of the United States of America, 1988, 85, 1691-1695.	3.3	91
16	Distribution of neurotensin-immunoreactivity within baroreceptive portions of the nucleus of the tractus solitarius and the dorsal vagal nucleus of the rat. Journal of Comparative Neurology, 1984, 226, 155-164.	0.9	88
17	The Alzheimer amyloid precursor-related transcript lacking the Î²/A4 sequence is specifically increased in Alzheimer's disease brain. Neuron, 1990, 5, 329-338.	3.8	80
18	Differential regulation of the low-affinity nerve growth factor receptor during postnatal development of the rat brain. Journal of Comparative Neurology, 1991, 313, 494-508.	0.9	76

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19	Somatostatinergic projections from the central nucleus of the amygdala to the vagal nuclei. Peptides, 1983, 4, 657-662.	1.2	75
20	Altered levels of amyloid protein precursor transcripts in the basal forebrain of behaviorally impaired aged rats.. Proceedings of the National Academy of Sciences of the United States of America, 1990, 87, 3032-3036.	3.3	64
21	In situ hybridization of putative somatostatin mRNA within hypothalamus of the rat using synthetic oligonucleotide probes. Journal of Cellular Biochemistry, 1985, 27, 415-422.	1.2	57
22	Early single-dose treatment with exosomes provides neuroprotection and improves blood-brain barrier integrity in swine model of traumatic brain injury and hemorrhagic shock. Journal of Trauma and Acute Care Surgery, 2020, 88, 207-218.	1.1	53
23	Distribution and expression of SNAP-25 immunoreactivity in rat brain, rat PC-12 cells and human SMS-KCNR neuroblastoma cells. Developmental Brain Research, 1992, 65, 133-146.	2.1	47
24	Stress and glucocorticoid receptor transcriptional programming in time and space: Implications for the brainâ€“gut axis. Neurogastroenterology and Motility, 2016, 28, 12-25.	1.6	46
25	Nerve growth factor receptor immunoreactivity in the new world monkey (Cebus apella) and human cerebellum. Journal of Comparative Neurology, 1991, 308, 555-575.	0.9	43
26	Improvement of Blood-Brain Barrier Integrity in Traumatic Brain Injury and Hemorrhagic Shock Following Treatment With Valproic Acid and Fresh Frozen Plasma. Critical Care Medicine, 2018, 46, e59-e66.	0.4	40
27	In situ hybridization of calcium/calmodulin dependent protein kinase II and tau mRNAs: species differences and relative preservation in Alzheimer's disease. Molecular Brain Research, 1992, 12, 85-94.	2.5	38
28	A glutamatergic network mediates lithium response in bipolar disorder as defined by epigenome pathway analysis. Pharmacogenomics, 2015, 16, 1547-1563.	0.6	34
29	Transcriptomic changes following valproic acid treatment promote neurogenesis and minimize secondary brain injury. Journal of Trauma and Acute Care Surgery, 2018, 84, 459-465.	1.1	30
30	Alterations in the human proteome following administration of valproic acid. Journal of Trauma and Acute Care Surgery, 2016, 81, 1020-1027.	1.1	28
31	Chapter 21 Genetics and biology of the Alzheimer amyloid precursor. Progress in Brain Research, 1990, 86, 257-267.	0.9	26
32	Valproic acid induces prosurvival transcriptomic changes in swine subjected to traumatic injury and hemorrhagic shock. Journal of Trauma and Acute Care Surgery, 2018, 84, 642-649.	1.1	26
33	Network Reconstruction Reveals that Valproic Acid Activates Neurogenic Transcriptional Programs in Adult Brain Following Traumatic Injury. Pharmaceutical Research, 2017, 34, 1658-1672.	1.7	22
34	3D Shape Modeling for Cell Nuclear Morphological Analysis and Classification. Scientific Reports, 2018, 8, 13658.	1.6	22
35	Early treatment with exosomes following traumatic brain injury and hemorrhagic shock in a swine model promotes transcriptional changes associated with neuroprotection. Journal of Trauma and Acute Care Surgery, 2020, 89, 536-543.	1.1	22
36	Epigenomic mapping and effect sizes of noncoding variants associated with psychotropic drug response. Pharmacogenomics, 2015, 16, 1565-1583.	0.6	21

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37	Cellular localization of 1B236/myelin-associated glycoprotein mRNA during rat brain development.. Proceedings of the National Academy of Sciences of the United States of America, 1989, 86, 2074-2078.	3.3	19
38	Genome Architecture Mediates Transcriptional Control of Human Myogenic Reprogramming. IScience, 2018, 6, 232-246.	1.9	19
39	Regulated splicing of the amyloid precursor protein gene during postnatal development of the rat basal forebrain. Developmental Brain Research, 1992, 66, 63-69.	2.1	18
40	The epigenome, 4D nucleome and next-generation neuropsychiatric pharmacogenomics. Pharmacogenomics, 2015, 16, 1649-1669.	0.6	18
41	New Simulation Technologies for Surgical Training and Certification: Current Status and Future Projections. Presence: Teleoperators and Virtual Environments, 1997, 6, 160-172.	0.3	17
42	Primary explants as a model of the hypothalamus in situ. Peptides, 1985, 6, 249-256.	1.2	16
43	3D Cell Nuclear Morphology: Microscopy Imaging Dataset and Voxel-Based Morphometry Classification Results. , 2018, , .		14
44	Integrating precision medicine in the study and clinical treatment of a severely mentally ill person. PeerJ, 2013, 1, e177.	0.9	12
45	Mining the topography and dynamics of the 4D Nucleome to identify novel CNS drug pathways. Methods, 2017, 123, 102-118.	1.9	11
46	Druggable Transcriptional Networks in the Human Neurogenic Epigenome. Pharmacological Reviews, 2019, 71, 520-538.	7.1	11
47	Rapid valproic acid-induced modulation of the traumatic proteome in a porcine model of traumatic brain injury and hemorrhagic shock. Journal of Surgical Research, 2018, 228, 84-92.	0.8	7
48	The Role of Epigenomic Regulatory Pathways in the Gut-Brain Axis and Visceral Hyperalgesia. Cellular and Molecular Neurobiology, 2022, 42, 361-376.	1.7	6
49	Valproic acid-induced changes of 4D nuclear morphology in astrocyte cells. Molecular Biology of the Cell, 2021, 32, 1624-1633.	0.9	6
50	Chapter 20 Trophic regulation of basal forebrain gene expression in aging and Alzheimer's disease. Progress in Brain Research, 1990, 86, 239-255.	0.9	5
51	A similarity-based approach to leverage multi-cohort medical data on the diagnosis and prognosis of Alzheimer's disease. GigaScience, 2018, 7, .	3.3	5
52	Chronic psychological stress alters gene expression in rat colon epithelial cells promoting chromatin remodeling, barrier dysfunction and inflammation. PeerJ, 2022, 10, e13287.	0.9	5
53	In Situ Hybridization Approaches to Human Neurological Disease. Methods in Neurosciences, 1989, , 183-196.	0.5	4
54	Introduction: Should a unified nomenclature be adopted for the amyloid protein of Alzheimer's disease?. Neurobiology of Aging, 1990, 11, 61-62.	1.5	4

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55	The pharmacoepigenomics informatics pipeline defines a pathway of novel and known warfarin pharmacogenomics variants. Pharmacogenomics, 2018, 19, 413-434.	0.6	4
56	Teleosâ„¢: Development of a Software Toolkit for Authoring Virtual Medical Environments. Presence: Teleoperators and Virtual Environments, 1997, 6, 241-252.	0.3	3
57	The Digital Human: Towards a Unified Ontology. OMICS A Journal of Integrative Biology, 2003, 7, 421-424.	1.0	2
58	Neurotrophin Receptor Gene Expression. Methods in Neurosciences, 1992, , 166-178.	0.5	0