Gerald A Higgins

List of Publications by Citations

61	8,863	27	64
papers	citations	h-index	g-index
64	9,826	8.2	5.76
ext. papers	ext. citations	avg, IF	L-index

#	Paper	IF	Citations
61	Alzheimer's disease: the amyloid cascade hypothesis. *Science*, **1992**, 256, 184-5	33.3	4674
60	The identification of a novel synaptosomal-associated protein, SNAP-25, differentially expressed by neuronal subpopulations. *Journal of Cell Biology*, **1989**, 109, 3039-52	7.3	710
59	Virtual reality simulation for the operating room: proficiency-based training as a paradigm shift in surgical skills training. *Annals of Surgery*, **2005**, 241, 364-72	7.8	697
58	Localization of amyloid beta protein messenger RNA in brains from patients with Alzheimer's disease. *Science*, **1987**, 237, 77-80	33.3	295
57	NGF induction of NGF receptor gene expression and cholinergic neuronal hypertrophy within the basal forebrain of the adult rat. *Neuron*, **1989**, 3, 247-56	13.9	240
56	NGF receptor reexpression and NGF-mediated cholinergic neuronal hypertrophy in the damaged adult neostriatum. *Neuron*, **1989**, 2, 1177-84	13.9	234
55	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, 1297-301	11.5	162
54	Localization of nerve growth factor receptor messenger RNA and protein in the adult rat brain. *Experimental Neurology*, **1989**, 106, 209-21	5.7	139
53	Induction of interleukin-1 beta mRNA in adult rat brain. *Molecular Brain Research*, **1991**, 9, 143-8		138
52	NGF receptor gene expression is decreased in the nucleus basalis in Alzheimer's disease. *Experimental Neurology*, **1989**, 106, 222-36	5.7	137
51	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	3.3	134
50	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, 476-8	50.4	87
49	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, 155-64	3.4	85
48	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, 2802-6	11.5	84
47	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, 1691-5	11.5	84
46	Deep learning in pharmacogenomics: from gene regulation to patient stratification. *Pharmacogenomics*, **2018**, 19, 629-650	2.6	80
45	The Alzheimer amyloid precursor-related transcript lacking the beta/A4 sequence is specifically increased in Alzheimer's disease brain. *Neuron*, **1990**, 5, 329-38	13.9	79

44	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	3.4	71
43	Somatostatinergic projections from the central nucleus of the amygdala to the vagal nuclei. *Peptides*, **1983**, 4, 657-62	3.8	66
42	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, 3032-6	11.5	60
41	In situ hybridization of putative somatostatin mRNA within hypothalamus of the rat using synthetic oligonucleotide probes. *Journal of Cellular Biochemistry*, **1985**, 27, 415-22	4.7	54
40	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, 133-46		43
39	Nerve growth factor receptor immunoreactivity in the new world monkey (Cebus apella) and human cerebellum. *Journal of Comparative Neurology*, **1991**, 308, 555-75	3.4	42
38	Stress and glucocorticoid receptor transcriptional programming in time and space: Implications for the brain-gut axis. *Neurogastroenterology and Motility*, **2016**, 28, 12-25	4	33
37	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		31
36	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	4.4	29
35	A glutamatergic network mediates lithium response in bipolar disorder as defined by epigenome pathway analysis. *Pharmacogenomics*, **2015**, 16, 1547-63	2.6	27
34	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	3.3	26
33	Alterations in the human proteome following administration of valproic acid. *Journal of Trauma and Acute Care Surgery*, **2016**, 81, 1020-1027	3.3	25
32	Transcriptomic changes following valproic acid treatment promote neurogenesis and minimize secondary brain injury. *Journal of Trauma and Acute Care Surgery*, **2018**, 84, 459-465	3.3	24
31	Genetics and biology of the Alzheimer amyloid precursor. *Progress in Brain Research*, **1990**, 86, 257-67	2.9	24
30	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	3.3	23
29	Network Reconstruction Reveals that Valproic Acid Activates Neurogenic Transcriptional Programs in Adult Brain Following Traumatic Injury. *Pharmaceutical Research*, **2017**, 34, 1658-1672	4.5	21
28	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, 2074-8	11.5	19
27	Epigenomic mapping and effect sizes of noncoding variants associated with psychotropic drug response. *Pharmacogenomics*, **2015**, 16, 1565-83	2.6	18

26	New Simulation Technologies for Surgical Training and Certification: Current Status and Future Projections. *Presence: Teleoperators and Virtual Environments*, **1997**, 6, 160-172	2.9	15
25	Regulated splicing of the amyloid precursor protein gene during postnatal development of the rat basal forebrain. *Developmental Brain Research*, **1992**, 66, 63-9		15
24	Primary explants as a model of the hypothalamus in situ. *Peptides*, **1985**, 6, 249-56	3.8	15
23	The epigenome, 4D nucleome and next-generation neuropsychiatric pharmacogenomics. *Pharmacogenomics*, **2015**, 16, 1649-69	2.6	14
22	Genome Architecture Mediates Transcriptional Control of Human Myogenic Reprogramming. *IScience*, **2018**, 6, 232-246	6.1	12
21	3D Shape Modeling for Cell Nuclear Morphological Analysis and Classification. *Scientific Reports*, **2018**, 8, 13658	4.9	11
20	Mining the topography and dynamics of the 4D Nucleome to identify novel CNS drug pathways. *Methods*, **2017**, 123, 102-118	4.6	10
19	Integrating precision medicine in the study and clinical treatment of a severely mentally ill person. *PeerJ*, **2013**, 1, e177	3.1	8
18	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	3.3	8
17	3D Cell Nuclear Morphology: Microscopy Imaging Dataset and Voxel-Based Morphometry Classification Results **2018**,		8
16	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	2.5	7
15	Druggable Transcriptional Networks in the Human Neurogenic Epigenome. *Pharmacological Reviews*, **2019**, 71, 520-538	22.5	6
14	Trophic regulation of basal forebrain gene expression in aging and Alzheimer's disease. *Progress in Brain Research*, **1990**, 86, 239-55	2.9	4
13	Should a unified nomenclature be adopted for the amyloid protein of Alzheimer's disease?. *Neurobiology of Aging*, **1990**, 11, 61-2	5.6	4
12	3D Cell Nuclear Morphology: Microscopy Imaging Dataset and Voxel-Based Morphometry Classification Results		4
11	A similarity-based approach to leverage multi-cohort medical data on the diagnosis and prognosis of Alzheimer's disease. *GigaScience*, **2018**, 7,	7.6	3
10	Teleos Development of a Software Toolkit for Authoring Virtual Medical Environments. *Presence: Teleoperators and Virtual Environments*, **1997**, 6, 241-252	2.9	3
9	In Situ Hybridization Approaches to Human Neurological Disease. *Methods in Neurosciences*, **1989**, 183-196		3

List of Publications

8	The pharmacoepigenomics informatics pipeline defines a pathway of novel and known warfarin pharmacogenomics variants. *Pharmacogenomics*, **2018**, 19, 413-434	2.6	2
7	The digital human: towards a unified ontology. *OMICS A Journal of Integrative Biology*, **2003**, 7, 421-4	3.8	2
6	Valproic acid-induced changes of 4D nuclear morphology in astrocyte cells. *Molecular Biology of the Cell*, **2021**, 32, 1624-1633	3.5	2
5	Ketamine pharmacogenomic network in human brain contains sub-networks associated with glutamate neurotransmission and with neuroplasticity		1
4	Valproic Acid-Induced Changes of 4D Nuclear Morphology in Astrocyte Cells		1
3	The Role of Epigenomic Regulatory Pathways in the Gut-Brain Axis and Visceral Hyperalgesia. *Cellular and Molecular Neurobiology*, **2021**, 1	4.6	1
2	Chronic psychological stress alters gene expression in rat colon epithelial cells promoting chromatin remodeling, barrier dysfunction and inflammation.. *PeerJ*, **2022**, 10, e13287	3.1	1
1	Neurotrophin Receptor Gene Expression. *Methods in Neurosciences*, **1992**, 166-178		