

George W Huntley

List of Publications by Year in descending order

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80
papers

8,030
citations

61945

43
h-index

69214

77
g-index

84
all docs

84
docs citations

84
times ranked

8268
citing authors

#	ARTICLE	IF	CITATIONS
1	Astrocyte-Neuron Lactate Transport Is Required for Long-Term Memory Formation. <i>Cell</i> , 2011, 144, 810-823.	13.5	1,285
2	Transgenic mice expressing an altered murine superoxide dismutase gene provide an animal model of amyotrophic lateral sclerosis.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1995, 92, 689-693.	3.3	673
3	Matrix Metalloproteinase-9 Is Required for Hippocampal Late-Phase Long-Term Potentiation and Memory. <i>Journal of Neuroscience</i> , 2006, 26, 1923-1934.	1.7	434
4	Increasing Numbers of Synaptic Puncta during Late-Phase LTP. <i>Neuron</i> , 2000, 28, 245-259.	3.8	355
5	Relationship of intrinsic connections to forelimb movement representations in monkey motor cortex: a correlative anatomic and physiological study. <i>Journal of Neurophysiology</i> , 1991, 66, 390-413.	0.9	346
6	Molecular Modification of N-Cadherin in Response to Synaptic Activity. <i>Neuron</i> , 2000, 25, 93-107.	3.8	301
7	Extracellular proteolysis by matrix metalloproteinase-9 drives dendritic spine enlargement and long-term potentiation coordinately. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 19520-19525.	3.3	288
8	Synaptic circuit remodelling by matrix metalloproteinases in health and disease. <i>Nature Reviews Neuroscience</i> , 2012, 13, 743-757.	4.9	229
9	Making memories stick: cell-adhesion molecules in synaptic plasticity. <i>Trends in Cell Biology</i> , 2000, 10, 473-482.	3.6	185
10	A monoclonal antibody to non-phosphorylated neurofilament protein marks the vulnerable cortical neurons in Alzheimer's disease. <i>Brain Research</i> , 1987, 416, 331-336.	1.1	164
11	In Vivo Roles for Matrix Metalloproteinase-9 in Mature Hippocampal Synaptic Physiology and Plasticity. <i>Journal of Neurophysiology</i> , 2007, 98, 334-344.	0.9	160
12	Molecules, maps and synapse specificity. <i>Nature Reviews Neuroscience</i> , 2001, 2, 899-909.	4.9	154
13	Correlation between patterns of horizontal connectivity and the extend of short-term representational plasticity in rat motor cortex. <i>Cerebral Cortex</i> , 1997, 7, 143-156.	1.6	150
14	Intracerebral transplantation of mesenchymal stem cells into acid sphingomyelinase-deficient mice delays the onset of neurological abnormalities and extends their life span. <i>Journal of Clinical Investigation</i> , 2002, 109, 1183-1191.	3.9	146
15	Regeneration of axons in injured spinal cord by activation of bone morphogenetic protein/Smad1 signaling pathway in adult neurons. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, E99-107.	3.3	133
16	The Neurotrophin-Inducible Gene <i>Vgfr</i> Regulates Hippocampal Function and Behavior through a Brain-Derived Neurotrophic Factor-Dependent Mechanism. <i>Journal of Neuroscience</i> , 2008, 28, 9857-9869.	1.7	128
17	Cellular and synaptic localization of NMDA and non-NMDA receptor subunits in neocortex: organizational features related to cortical circuitry, function and disease. <i>Trends in Neurosciences</i> , 1994, 17, 536-543.	4.2	124
18	Persistence of Coordinated Long-Term Potentiation and Dendritic Spine Enlargement at Mature Hippocampal CA1 Synapses Requires N-Cadherin. <i>Journal of Neuroscience</i> , 2010, 30, 9984-9989.	1.7	109

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19	Altered AÎ² Formation and Long-Term Potentiation in a Calsenilin Knock-Out. Journal of Neuroscience, 2003, 23, 9097-9106.	1.7	103
20	Differential Subcellular Regulation of NMDAR1 Protein and mRNA in Dendrites of Dentate Gyrus Granule Cells after Perforant Path Transection. Journal of Neuroscience, 1997, 17, 2006-2017.	1.7	99
21	Orexin signaling in GABAergic lateral habenula neurons modulates aggressive behavior in male mice. Nature Neuroscience, 2020, 23, 638-650.	7.1	98
22	Immunohistochemical localization of the neuron-specific glutamate transporter EAAC1 (EAAT3) in rat brain and spinal cord revealed by a novel monoclonal antibody. Brain Research, 1997, 773, 139-148.	1.1	96
23	Localization of multiple dopamine receptor subtype mRNAs in human and monkey motor cortex and striatum. Molecular Brain Research, 1992, 15, 181-188.	2.5	95
24	Altered Development of Synapse Structure and Function in Striatum Caused by Parkinson's Disease-Linked LRRK2-G2019S Mutation. Journal of Neuroscience, 2016, 36, 7128-7141.	1.7	95
25	Cajal-Retzius neurons in developing monkey neocortex show immunoreactivity for calcium binding proteins. Journal of Neurocytology, 1990, 19, 200-212.	1.6	91
26	The extracellular protease matrix metalloproteinase-9 is activated by inhibitory avoidance learning and required for long-term memory. Learning and Memory, 2007, 14, 655-664.	0.5	89
27	Prolonged epigenomic and synaptic plasticity alterations following single exposure to a psychedelic in mice. Cell Reports, 2021, 37, 109836.	2.9	82
28	Temporal sequence of neurotransmitter expression by developing neurons of fetal monkey visual cortex. Developmental Brain Research, 1988, 43, 69-96.	2.1	80
29	Antipsychotic-induced Hdac2 transcription via NF-Î²B leads to synaptic and cognitive side effects. Nature Neuroscience, 2017, 20, 1247-1259.	7.1	79
30	Neural (N)-cadherin at developing thalamocortical synapses provides an adhesion mechanism for the formation of somatopically organized connections. Journal of Comparative Neurology, 1999, 407, 453-471.	0.9	78
31	Developmental expression of brain derived neurotrophic factor mRNA by neurons of fetal and adult monkey prefrontal cortex. Developmental Brain Research, 1992, 70, 53-63.	2.1	68
32	Structural Remodeling of the Synapse in Response to Physiological Activity. Cell, 2002, 108, 1-4.	13.5	66
33	Cadherin-8 and N-cadherin differentially regulate pre- and postsynaptic development of the hippocampal mossy fiber pathway. Hippocampus, 2008, 18, 349-363.	0.9	64
34	N-Cadherin Regulates Ingrowth and Laminar Targeting of Thalamocortical Axons. Journal of Neuroscience, 2003, 23, 2294-2305.	1.7	63
35	Heterogeneous distribution of D1, D2 and D5 receptor mRNAs in monkey striatum. Brain Research, 1993, 616, 242-250.	1.1	62
36	The Cadherin Family of Cell Adhesion Molecules: Multiple Roles in Synaptic Plasticity. Neuroscientist, 2002, 8, 221-233.	2.6	62

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37	The emergence of architectonic field structure and areal borders in developing monkey sensorimotor cortex. <i>Neuroscience</i> , 1991, 44, 287-310.	1.1	58
38	Neuron-specific human glutamate transporter: molecular cloning, characterization and expression in human brain. <i>Brain Research</i> , 1994, 662, 245-250.	1.1	56
39	Compensatory redistribution of neuroligins and N-cadherin following deletion of synaptic $\beta 1$ -integrin. <i>Journal of Comparative Neurology</i> , 2012, 520, 2041-2052.	0.9	54
40	Parkinson's Disease-Linked LRRK2-G2019S Mutation Alters Synaptic Plasticity and Promotes Resilience to Chronic Social Stress in Young Adulthood. <i>Journal of Neuroscience</i> , 2018, 38, 9700-9711.	1.7	51
41	Organization and quantitative analysis of kainate receptor subunit GluR5-7 immunoreactivity in monkey hippocampus. <i>Brain Research</i> , 1993, 624, 347-353.	1.1	50
42	Differential Effects of Abnormal Tactile Experience on Shaping Representation Patterns in Developing and Adult Motor Cortex. <i>Journal of Neuroscience</i> , 1997, 17, 9220-9232.	1.7	45
43	Developmental patterns of cadherin expression and localization in relation to compartmentalized thalamocortical terminations in rat barrel cortex. <i>Journal of Comparative Neurology</i> , 2002, 453, 372-388.	0.9	45
44	GABAA receptor immunoreactivity in adult and developing monkey sensory-motor cortex. <i>Experimental Brain Research</i> , 1990, 82, 519-535.	0.7	44
45	Microzonal decreases in the immunostaining for non-NMDA ionotropic excitatory amino acid receptor subunits GluR 2/3 and GluR 5/6/7 in the human epileptogenic neocortex. <i>Brain Research</i> , 1994, 657, 150-158.	1.1	43
46	Quantitative localization of NMDAR1 receptor subunit immunoreactivity in inferotemporal and prefrontal association cortices of monkey and human. <i>Brain Research</i> , 1997, 749, 245-262.	1.1	42
47	The granin VGF promotes genesis of secretory vesicles, and regulates circulating catecholamine levels and blood pressure. <i>FASEB Journal</i> , 2014, 28, 2120-2133.	0.2	42
48	Synapse adhesion: a dynamic equilibrium conferring stability and flexibility. <i>Current Opinion in Neurobiology</i> , 2012, 22, 397-404.	2.0	38
49	Neural (N-) cadherin, a synaptic adhesion molecule, is induced in hippocampal mossy fiber axonal sprouts by seizure. <i>Journal of Neuroscience Research</i> , 2002, 69, 292-304.	1.3	36
50	Cadherin-Based Transsynaptic Networks in Establishing and Modifying Neural Connectivity. <i>Current Topics in Developmental Biology</i> , 2015, 112, 415-465.	1.0	35
51	Maturation of cortical circuits requires Semaphorin 7A. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 13978-13983.	3.3	34
52	N-cadherin regulates molecular organization of excitatory and inhibitory synaptic circuits in adult hippocampus in vivo. <i>Hippocampus</i> , 2014, 24, 943-962.	0.9	33
53	CCAAT Enhancer Binding Protein β Plays an Essential Role in Memory Consolidation and Reconsolidation. <i>Journal of Neuroscience</i> , 2013, 33, 3646-3658.	1.7	32
54	Building and remodeling synapses. <i>Hippocampus</i> , 2012, 22, 954-968.	0.9	31

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55	Developmental and comparative aspects of posterior medial thalamocortical innervation of the barrel cortex in mice and rats. <i>Journal of Comparative Neurology</i> , 2008, 509, 239-258.	0.9	30
56	Early postnatal expression and localization of matrix metalloproteinasesâ€”2 and â€”9 during establishment of rat hippocampal synaptic circuitry. <i>Journal of Comparative Neurology</i> , 2014, 522, 1249-1263.	0.9	30
57	Cadherinâ€”8 expression, synaptic localization, and molecular control of neuronal form in prefrontal corticostriatal circuits. <i>Journal of Comparative Neurology</i> , 2015, 523, 75-92.	0.9	30
58	Developmentally regulated expression of Thy-1 in structures of the mouse sensory-motor system. , 2000, 421, 215-233.		29
59	Subcellular Distribution of HDAC1 in Neurotoxic Conditions Is Dependent on Serine Phosphorylation. <i>Journal of Neuroscience</i> , 2017, 37, 7547-7559.	1.7	26
60	Non-Motor Symptoms of Parkinsonâ€™s Disease: The Neurobiology of Early Psychiatric and Cognitive Dysfunction. <i>Neuroscientist</i> , 2023, 29, 97-116.	2.6	23
61	Immunocytochemical localization of non-NMDA ionotropic excitatory amino acid receptor subunits in human neocortex. <i>Brain Research</i> , 1995, 671, 175-180.	1.1	22
62	Testing the role of the cell-surface molecule Thy-1 in regeneration and plasticity of connectivity in the CNS. <i>Neuroscience</i> , 2002, 111, 837-852.	1.1	22
63	Neuropathic pain- and glial derived neurotrophic factor-associated regulation of cadherins in spinal circuits of the dorsal horn. <i>Pain</i> , 2011, 152, 924-935.	2.0	22
64	Distribution and Injury-Induced Plasticity of Cadherins in Relationship to Identified Synaptic Circuitry in Adult Rat Spinal Cord. <i>Journal of Neuroscience</i> , 2004, 24, 8806-8817.	1.7	21
65	Localisation of mRNA encoding the protein precursor of galanin in the monkey hypothalamus and basal forebrain. <i>Journal of Comparative Neurology</i> , 1993, 328, 203-212.	0.9	19
66	Functional and behavioral consequences of Parkinson's disease-associated <i>LRRK2</i>-G2019S mutation. <i>Biochemical Society Transactions</i> , 2018, 46, 1697-1705.	1.6	18
67	Synaptic loss and retention of different classic cadherins with LTPâ€”associated synaptic structural remodeling in vivo. <i>Hippocampus</i> , 2012, 22, 17-28.	0.9	17
68	Dynamic aspects of cadherin-mediated adhesion in synapse development and plasticity. <i>Biology of the Cell</i> , 2002, 94, 335-344.	0.7	16
69	LRRK2 mutation alters behavioral, synaptic, and nonsynaptic adaptations to acute social stress. <i>Journal of Neurophysiology</i> , 2020, 123, 2382-2389.	0.9	16
70	Are we listening to everything the PARK genes are telling us?. <i>Journal of Comparative Neurology</i> , 2019, 527, 1527-1540.	0.9	13
71	Tachykinin immunoreactivity in terminals of trigeminal afferent fibers in adult and fetal monkey thalamus. <i>Experimental Brain Research</i> , 1989, 78, 479-88.	0.7	11
72	â€” REVIEW : Glutamate Receptors: Emerging Links Between Subunit Proteins and Specific Excitatory Circuits in Primate Hippocampus and Neocortex. <i>Neuroscientist</i> , 1996, 2, 272-283.	2.6	11

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73	Origins of Parkinson's Disease in Brain Development: Insights From Early and Persistent Effects of LRRK2-G2019S on Striatal Circuits. <i>Frontiers in Neuroscience</i> , 2020, 14, 265.	1.4	11
74	Imidazoleacetic acid-ribotide induces depression of synaptic responses in hippocampus through activation of imidazoline receptors. <i>Journal of Neurophysiology</i> , 2011, 105, 1266-1275.	0.9	10
75	Localization of preprogalanin mRNA in the monkey hippocampal formation. <i>Neuroscience Letters</i> , 1992, 146, 171-175.	1.0	6
76	Cognitive deficits and altered cholinergic innervation in young adult male mice carrying a Parkinson's disease Lrrk2G2019S knockin mutation. <i>Experimental Neurology</i> , 2022, 355, 114145.	2.0	6
77	Excitatory Amino Acids and Neurotoxicity in the Human Neocortex. <i>Advances in Behavioral Biology</i> , 1995, , 79-99.	0.2	3
78	Introduction to a special issue on dynamical aspects of cortical structure and function. <i>Neuroscience</i> , 2002, 111, 707-708.	1.1	2
79	Developmental and comparative aspects of posterior medial thalamocortical innervation of the barrel cortex in mice and rats. <i>Journal of Comparative Neurology</i> , 2008, 509, spc1-spc1.	0.9	0
80	Developmental and comparative aspects of posterior medial thalamocortical innervation of the barrel cortex in mice and rats. <i>Journal of Comparative Neurology</i> , 2008, 509, spc1-spc1.	0.9	0