

Deanna L Benson

List of Publications by Year in descending order

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85
papers

5,622
citations

81900

39
h-index

79698

73
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87
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87
docs citations

87
times ranked

5741
citing authors

#	ARTICLE	IF	CITATIONS
1	Increasing Numbers of Synaptic Puncta during Late-Phase LTP. <i>Neuron</i> , 2000, 28, 245-259.	8.1	355
2	Molecular Modification of N-Cadherin in Response to Synaptic Activity. <i>Neuron</i> , 2000, 25, 93-107.	8.1	301
3	N-Cadherin Redistribution during Synaptogenesis in Hippocampal Neurons. <i>Journal of Neuroscience</i> , 1998, 18, 6892-6904.	3.6	293
4	Contrasting patterns in the localization of glutamic acid decarboxylase and Ca ²⁺ /calmodulin protein kinase gene expression in the rat central nervous system. <i>Neuroscience</i> , 1992, 46, 825-849.	2.3	222
5	Stages of Synapse Development Defined by Dependence on F-Actin. <i>Journal of Neuroscience</i> , 2001, 21, 5169-5181.	3.6	214
6	Making memories stick: cell-adhesion molecules in synaptic plasticity. <i>Trends in Cell Biology</i> , 2000, 10, 473-482.	7.9	185
7	Characterization of GABAergic neurons in hippocampal cell cultures. <i>Journal of Neurocytology</i> , 1994, 23, 279-295.	1.5	176
8	Restraining Lysosomal Activity Preserves Hematopoietic Stem Cell Quiescence and Potency. <i>Cell Stem Cell</i> , 2020, 26, 359-376.e7.	11.1	169
9	Differential gene expression for glutamic acid decarboxylase and type II calcium-calmodulin-dependent protein kinase in basal ganglia, thalamus, and hypothalamus of the monkey. <i>Journal of Neuroscience</i> , 1991, 11, 1540-1564.	3.6	167
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.	2.2	164
11	Molecules, maps and synapse specificity. <i>Nature Reviews Neuroscience</i> , 2001, 2, 899-909.	10.2	154
12	β-Protocadherins Are Targeted to Subsets of Synapses and Intracellular Organelles in Neurons. <i>Journal of Neuroscience</i> , 2003, 23, 5096-5104.	3.6	151
13	Alpha calcium/calmodulin-dependent protein kinase II selectively expressed in a subpopulation of excitatory neurons in monkey sensory- motor cortex: comparison with GAD-67 expression. <i>Journal of Neuroscience</i> , 1994, 14, 611-629.	3.6	140
14	Functional binding interaction identified between the axonal CAM L1 and members of the ERM family. <i>Journal of Cell Biology</i> , 2002, 157, 1105-1112.	5.2	128
15	Activity-dependent Changes in GAD and Preprotachykinin mRNAs in Visual Cortex of Adult Monkeys. <i>Cerebral Cortex</i> , 1994, 4, 40-51.	2.9	124
16	Identification of Three Residues Essential for 5-Hydroxytryptamine 2A-Metabotropic Glutamate 2 (5-HT _{2A} -mGlu ₂) Receptor Heteromerization and Its Psychoactive Behavioral Function. <i>Journal of Biological Chemistry</i> , 2012, 287, 44301-44319.	3.4	122
17	Temporally distinct demands for classic cadherins in synapse formation and maturation. <i>Molecular and Cellular Neurosciences</i> , 2004, 27, 509-521.	2.2	113
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.	3.6	109

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19	Differential Subcellular Regulation of NMDAR1 Protein and mRNA in Dendrites of Dentate Gyrus Granule Cells after Perforant Path Transection. <i>Journal of Neuroscience</i> , 1997, 17, 2006-2017.	3.6	99
20	Altered Development of Synapse Structure and Function in Striatum Caused by Parkinson's Disease-Linked LRRK2-G2019S Mutation. <i>Journal of Neuroscience</i> , 2016, 36, 7128-7141.	3.6	95
21	Comprehensive characterization and optimization of anti-LRRK2 (leucine-rich repeat kinase 2) monoclonal antibodies. <i>Biochemical Journal</i> , 2013, 453, 101-113.	3.7	84
22	Neural (N)-cadherin at developing thalamocortical synapses provides an adhesion mechanism for the formation of somatotopically organized connections. <i>Journal of Comparative Neurology</i> , 1999, 407, 453-471.	1.6	78
23	Identification and localization of multiple classic cadherins in developing rat limbic system. <i>Neuroscience</i> , 2002, 115, 213-227.	2.3	74
24	Compartmentation of alpha-internexin and neurofilament triplet proteins in cultured hippocampal neurons. <i>Journal of Neurocytology</i> , 1996, 25, 181-196.	1.5	70
25	Developmental expression of brain derived neurotrophic factor mRNA by neurons of fetal and adult monkey prefrontal cortex. <i>Developmental Brain Research</i> , 1992, 70, 53-63.	1.7	68
26	Activity-Independent Segregation of Excitatory and Inhibitory Synaptic Terminals in Cultured Hippocampal Neurons. <i>Journal of Neuroscience</i> , 1996, 16, 6424-6432.	3.6	67
27	Structural Remodeling of the Synapse in Response to Physiological Activity. <i>Cell</i> , 2002, 108, 1-4.	28.9	66
28	Cadherin α 8 and N-cadherin differentially regulate pre- and postsynaptic development of the hippocampal mossy fiber pathway. <i>Hippocampus</i> , 2008, 18, 349-363.	1.9	64
29	Anesthetics Interfere with Axon Guidance in Developing Mouse Neocortical Neurons <i>In Vitro</i> via α -Aminobutyric Acid Type A Receptor Mechanism. <i>Anesthesiology</i> , 2013, 118, 825-833.	2.5	63
30	Development and molecular organization of dendritic spines and their synapses. <i>Hippocampus</i> , 2000, 10, 512-526.	1.9	58
31	Cyfp1 Regulates Presynaptic Activity during Development. <i>Journal of Neuroscience</i> , 2016, 36, 1564-1576.	3.6	58
32	Dendritic localization of type II calcium calmodulin-dependent protein kinase mRNA in normal and reinnervated rat hippocampus. <i>Neuroscience</i> , 1992, 46, 851-857.	2.3	57
33	Compensatory redistribution of neuroligins and N-cadherin following deletion of synaptic β 1-integrin. <i>Journal of Comparative Neurology</i> , 2012, 520, 2041-2052.	1.6	54
34	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.	3.6	51
35	Flotillin-Mediated Endocytic Events Dictate Cell Type-Specific Responses to Semaphorin 3A. <i>Journal of Neuroscience</i> , 2010, 30, 15317-15329.	3.6	47
36	Expression of glutamic acid decarboxylase mRNA in normal and monocularly deprived cat visual cortex. <i>Molecular Brain Research</i> , 1989, 5, 279-287.	2.3	46

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37	Short- and Long-Term Effects of LRRK2 on Axon and Dendrite Growth. <i>PLoS ONE</i> , 2013, 8, e61986.	2.5	43
38	Polarized distribution and cell type-specific localization of telencephalin, an intercellular adhesion molecule. <i>Journal of Neuroscience Research</i> , 1998, 52, 43-53.	2.9	42
39	Dendritic spine plasticity in hippocampus. <i>Neuroscience</i> , 2002, 111, 853-862.	2.3	42
40	Structural basis for developmentally regulated changes in cadherin function at synapses. <i>Journal of Comparative Neurology</i> , 2006, 495, 324-335.	1.6	42
41	The granin VGF promotes genesis of secretory vesicles, and regulates circulating catecholamine levels and blood pressure. <i>FASEB Journal</i> , 2014, 28, 2120-2133.	0.5	42
42	Synapse adhesion: a dynamic equilibrium conferring stability and flexibility. <i>Current Opinion in Neurobiology</i> , 2012, 22, 397-404.	4.2	38
43	Dendritic compartmentation of NMDA receptor mRNA in cultured hippocampal neurons. <i>NeuroReport</i> , 1997, 8, 823-828.	1.2	37
44	Maturation of glutamatergic and GABAergic synapse composition in hippocampal neurons. <i>Neuropharmacology</i> , 2004, 47, 694-705.	4.1	36
45	Role for NUP62 depletion and PYK2 redistribution in dendritic retraction resulting from chronic stress. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 16130-16135.	7.1	36
46	ERMs colocalize transiently with L1 during neocortical axon outgrowth. <i>Journal of Comparative Neurology</i> , 2003, 464, 438-448.	1.6	35
47	Anesthetics Interfere With the Polarization of Developing Cortical Neurons. <i>Journal of Neurosurgical Anesthesiology</i> , 2012, 24, 368-375.	1.2	35
48	Cadherin-Based Transsynaptic Networks in Establishing and Modifying Neural Connectivity. <i>Current Topics in Developmental Biology</i> , 2015, 112, 415-465.	2.2	35
49	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.	7.1	34
50	N-cadherin regulates molecular organization of excitatory and inhibitory synaptic circuits in adult hippocampus in vivo. <i>Hippocampus</i> , 2014, 24, 943-962.	1.9	33
51	Developmentally regulated changes in cellular compartmentation and synaptic distribution of actin in hippocampal neurons. <i>Journal of Neuroscience Research</i> , 2002, 69, 427-436.	2.9	32
52	Requirement for Protein Synthesis at Developing Synapses. <i>Journal of Neuroscience</i> , 2009, 29, 9778-9793.	3.6	32
53	Interactions between the L1 cell adhesion molecule and ezrin support traction force generation and can be regulated by tyrosine phosphorylation. <i>Journal of Neuroscience Research</i> , 2008, 86, 2602-2614.	2.9	31
54	Building and remodeling synapses. <i>Hippocampus</i> , 2012, 22, 954-968.	1.9	31

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55	Cadherin expression in the developing mouse olfactory system. <i>Journal of Comparative Neurology</i> , 2007, 501, 483-497.	1.6	30
56	ERM proteins regulate growth cone responses to Sema3A. <i>Journal of Comparative Neurology</i> , 2008, 510, 351-366.	1.6	30
57	Cadherin β 8 expression, synaptic localization, and molecular control of neuronal form in prefrontal corticostriatal circuits. <i>Journal of Comparative Neurology</i> , 2015, 523, 75-92.	1.6	30
58	Decreased expression of the alpha subunit of Ca ²⁺ /calmodulin-dependent protein kinase type II mRNA in the adult rat CNS following recurrent limbic seizures. <i>Molecular Brain Research</i> , 1995, 32, 221-232.	2.3	29
59	A Prohormone Convertase Cleavage Site within a Predicted α -Helix Mediates Sorting of the Neuronal and Endocrine Polypeptide VGF into the Regulated Secretory Pathway. <i>Journal of Biological Chemistry</i> , 2005, 280, 41595-41608.	3.4	28
60	Interclass GPCR heteromerization affects localization and trafficking. <i>Science Signaling</i> , 2020, 13, .	3.6	28
61	Chick Ciliary Ganglion Neurons Contain Transcripts Coding for Acetylcholine Receptor-Associated Protein at Synapses (Rapsyn). <i>Journal of Neuroscience</i> , 1997, 17, 5016-5026.	3.6	27
62	Expression and polarization of VGF in developing hippocampal neurons. <i>Developmental Brain Research</i> , 1996, 96, 219-228.	1.7	26
63	Effects of ethanol on axon outgrowth and branching in developing rat cortical neurons. <i>Neuroscience</i> , 2008, 157, 556-565.	2.3	26
64	Non-Motor Symptoms of Parkinson's Disease: The Neurobiology of Early Psychiatric and Cognitive Dysfunction. <i>Neuroscientist</i> , 2023, 29, 97-116.	3.5	23
65	Targeting and clustering citron to synapses. <i>Molecular and Cellular Neurosciences</i> , 2006, 31, 26-36.	2.2	19
66	Functional and behavioral consequences of Parkinson's disease-associated LRRK2-G2019S mutation. <i>Biochemical Society Transactions</i> , 2018, 46, 1697-1705.	3.4	18
67	Synaptic loss and retention of different classic cadherins with LTP-associated synaptic structural remodeling in vivo. <i>Hippocampus</i> , 2012, 22, 17-28.	1.9	17
68	Report on the National Eye Institute Audacious Goals Initiative: Regenerating the Optic Nerve. , 2016, 57, 1271.		17
69	In situ hybridization reveals VIP precursor mRNA-containing neurons in monkey and rat neocortex. <i>Molecular Brain Research</i> , 1991, 9, 169-174.	2.3	16
70	L1 cell adhesion molecule promotes resistance to alcohol-induced silencing of growth cone responses to guidance cues. <i>Neuroscience</i> , 2011, 180, 30-40.	2.3	16
71	LRRK2 mutation alters behavioral, synaptic, and nonsynaptic adaptations to acute social stress. <i>Journal of Neurophysiology</i> , 2020, 123, 2382-2389.	1.8	16
72	Mitochondrial localization and moderated activity are key to murine erythroid enucleation. <i>Blood Advances</i> , 2021, 5, 2490-2504.	5.2	16

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73	Axonal capâ€¢dependent translation regulates presynaptic p35. <i>Developmental Neurobiology</i> , 2014, 74, 351-364.	3.0	15
74	Are we listening to everything the PARK genes are telling us?. <i>Journal of Comparative Neurology</i> , 2019, 527, 1527-1540.	1.6	13
75	Origins of Parkinsonâ€™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.	2.8	11
76	CNS voltage-dependent Na ⁺ channel expression and distribution in an undifferentiated and differentiated CNS cell line. <i>Brain Research</i> , 2000, 866, 281-285.	2.2	7
77	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.	4.1	6
78	Activity-dependent Regulation of Gene Expression in Adult Monkey Visual Cortex. <i>Cold Spring Harbor Symposia on Quantitative Biology</i> , 1990, 55, 481-490.	1.1	4
79	Quantitative Whole-mount Immunofluorescence Analysis of Cardiac Progenitor Populations in Mouse Embryos. <i>Journal of Visualized Experiments</i> , 2017, , .	0.3	3
80	Cyfp1 Regulates SynGAP1 at Hippocampal Synapses. <i>Frontiers in Synaptic Neuroscience</i> , 2020, 12, 581714.	2.5	3
81	Visualizing and Characterizing Semaphorin Endocytic Events Using Quantum Dot-Conjugated Proteins. <i>Methods in Molecular Biology</i> , 2017, 1493, 277-286.	0.9	1
82	Of Molecules and Mechanisms. <i>Journal of Neuroscience</i> , 2020, 40, 81-88.	3.6	1
83	Neuronal Differentiation: From Axons to Synapses. , 2006, , 45-72.		1
84	Correction: Functional binding interaction identified between the axonal CAM L1 and members of the ERM family. <i>Journal of Cell Biology</i> , 2002, 158, 817-817.	5.2	0
85	Cadherin-Mediated Adhesion and Signaling During Vertebrate Central Synapse Formation. , 2006, , 83-95.		0