Gerardo A Morfini

List of Publications by Year
in descending order

85 papers	7,509 citations	66343 42 h-index	74163 75 g-index
97 all docs	97 docs citations	97 times ranked	8815 citing authors

#	Article	IF	Citations
1	Wild-type and mutant SOD1 share an aberrant conformation and a common pathogenic pathway in ALS. Nature Neuroscience, 2010, 13, 1396-1403.	14.8	600
2	Axonal Transport Defects in Neurodegenerative Diseases. Journal of Neuroscience, 2009, 29, 12776-12786.	3.6	398
3	Glycogen synthase kinase 3 phosphorylates kinesin light chains and negatively regulates kinesin-based motility. EMBO Journal, 2002, 21, 281-293.	7.8	358
4	Neuropathogenic Forms of Huntingtin and Androgen Receptor Inhibit Fast Axonal Transport. Neuron, 2003, 40, 41-52.	8.1	289
5	Reelin-mediated Signaling Locally Regulates Protein Kinase B/Akt and Glycogen Synthase Kinase 3Î². Journal of Biological Chemistry, 2002, 277, 49958-49964.	3.4	275
6	Alzheimer's Presenilin 1 Mutations Impair Kinesin-Based Axonal Transport. Journal of Neuroscience, 2003, 23, 4499-4508.	3.6	275
7	Alterations in axonal transport motor proteins in sporadic and experimental Parkinsonâ€™s disease. Brain, 2012, 135, 2058-2073.	7.6	249
8	A novel CDK5-dependent pathway for regulating GSK3 activity and kinesin-driven motility in neurons. EMBO Journal, 2004, 23, 2235-2245.	7.8	245
9	Pathogenic Forms of Tau Inhibit Kinesin-Dependent Axonal Transport through a Mechanism Involving Activation of Axonal Phosphotransferases. Journal of Neuroscience, 2011, 31, 9858-9868.	3.6	231
10	Pathogenic huntingtin inhibits fast axonal transport by activating JNK3 and phosphorylating kinesin. Nature Neuroscience, 2009, 12, 864-871.	14.8	222
11	Axonal Transport, Amyloid Precursor Protein, Kinesin-1, and the Processing Apparatus: Revisited. Journal of Neuroscience, 2005, 25, 2386-2395.	3.6	221
12	The amino terminus of tau inhibits kinesinâ€dependent axonal transport: Implications for filament toxicity. Journal of Neuroscience Research, 2009, 87, 440-451.	2.9	203
13	Disruption of fast axonal transport is a pathogenic mechanism for intraneuronal amyloid beta. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 5907-5912.	7.1	198
14	Effects of eribulin, vincristine, paclitaxel and ixabepilone on fast axonal transport and kinesin-1 driven microtubule gliding: Implications for chemotherapy-induced peripheral neuropathy. NeuroToxicology, 2013, 37, 231-239.	3.0	182
15	Evidence for the Participation of the Neuron-Specific CDK5 Activator P35 during Laminin-Enhanced Axonal Growth. Journal of Neuroscience, 1998, 18, 9858-9869.	3.6	181
16	Axonal degeneration in Alzheimer's disease: When signaling abnormalities meet the axonal transport system. Experimental Neurology, 2013, 246, 44-53.	4.1	171
17	JNK mediates pathogenic effects of polyglutamine-expanded androgen receptor on fast axonal transport. Nature Neuroscience, 2006, 9, 907-916.	14.8	169
18	Differential vulnerability of neurons in Huntingtonâ€™s disease: the role of cell typeâ€specific features. Journal of Neurochemistry, 2010, 113, 1073-1091.	3.9	130

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19	Impairments in Fast Axonal Transport and Motor Neuron Deficits in Transgenic Mice Expressing Familial Alzheimer's Disease-Linked Mutant Presenilin 1. Journal of Neuroscience, 2007, 27, 7011-7020.	3.6	120
20	Regulation of motor proteins, axonal transport deficits and adult-onset neurodegenerative diseases. Neurobiology of Disease, 2017, 105, 273-282.	4.4	115
21	1-Methyl-4-phenylpyridinium affects fast axonal transport by activation of caspase and protein kinase C. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 2442-2447.	7.1	114
22	Reelin and Cyclin-Dependent Kinase 5-Dependent Signals Cooperate in Regulating Neuronal Migration and Synaptic Transmission. Journal of Neuroscience, 2004, 24, 1897-1906.	3.6	107
23	APP Anterograde Transport Requires Rab3A GTPase Activity for Assembly of the Transport Vesicle. Journal of Neuroscience, 2009, 29, 14534-14544.	3.6	106
24	Heat Shock Protein 70 Prevents both Tau Aggregation and the Inhibitory Effects of Preexisting Tau Aggregates on Fast Axonal Transport. Biochemistry, 2011, 50, 10300-10310.	2.5	106
25	Regulation of membrane expansion at the nerve growth cone. Journal of Cell Science, 2003, 116, 1209-1217.	2.0	102
26	Quantitative and Functional Analyses of Spastin in the Nervous System: Implications for Hereditary Spastic Paraplegia. Journal of Neuroscience, 2008, 28, 2147-2157.	3.6	102
27	Inhibition of Fast Axonal Transport by Pathogenic SOD1 Involves Activation of p38 MAP Kinase. PLoS ONE, 2013, 8, e65235.	2.5	100
28	Release of Kinesin from Vesicles by hsc70 and Regulation of Fast Axonal Transport. Molecular Biology of the Cell, 2000, 11, 2161-2173.	2.1	91
29	Ca2+-dependent Dephosphorylation of Kinesin Heavy Chain on Î²-Granules in Pancreatic Î²-Cells. Journal of Biological Chemistry, 2002, 277, 24232-24242.	3.4	91
30	Phosphorylation in the amino terminus of tau prevents inhibition of anterograde axonal transport. Neurobiology of Aging, 2012, 33, 826.e15-826.e30.	3.1	89
31	Fast Axonal Transport Misregulation and Alzheimer's Disease. NeuroMolecular Medicine, 2002, 2, 089-100.	3.4	82
32	Axonal Degeneration in Tauopathies: Disease Relevance and Underlying Mechanisms. Frontiers in Neuroscience, 2017, 11, 572.	2.8	82
33	The Sphingolipid Psychosine Inhibits Fast Axonal Transport in Krabbe Disease by Activation of GSK3Â and Deregulation of Molecular Motors. Journal of Neuroscience, 2013, 33, 10048-10056.	3.6	80
34	Conventional Kinesin Holoenzymes Are Composed of Heavy and Light Chain Homodimers. Biochemistry, 2008, 47, 4535-4543.	2.5	79
35	Axonal transport of APP and the spatial regulation of APP cleavage and function in neuronal cells. Experimental Brain Research, 2012, 217, 353-364.	1.5	79
36	Suppression of KIF2 in PC12 Cells Alters the Distribution of a Growth Cone Nonsynaptic Membrane Receptor and Inhibits Neurite Extension. Journal of Cell Biology, 1997, 138, 657-669.	5.2	74

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37	Tau binding to microtubules does not directly affect microtubule-based vesicle motility. Journal of Neuroscience Research, 2007, 85, 2620-2630.	2.9	74
38	Microfilament-associated growth cone component depends upon Tau for its intracellular localization. Cytoskeleton, 1994, 29, 117-130.	4.4	72
39	Polyglutamine expansion diseases: failing to deliver. Trends in Molecular Medicine, 2005, 11, 64-70.	6.7	63
40	Neurotrophin-3 enhances neurite outgrowth in cultured hippocampal pyramidal neurons. Journal of Neuroscience Research, 1994, 39, 219-232.	2.9	55
41	Regulation of Kinesin: Implications for Neuronal Development. Developmental Neuroscience, 2001, 23, 364-376.	2.0	54
42	Tau pathology-mediated presynaptic dysfunction. Neuroscience, 2016, 325, 30-38.	2.3	54
43	Phosphoregulation of Tau modulates inhibition of kinesin-1 motility. Molecular Biology of the Cell, 2017, 28, 1079-1087.	2.1	53
44	Analysis of YFP(<i>J16</i>)-R6/2 reporter mice and postmortem brains reveals early pathology and increased vulnerability of callosal axons in Huntington's disease. Human Molecular Genetics, 2015, 24, 5285-5298.	2.9	48
45	Conventional kinesin: Biochemical heterogeneity and functional implications in health and disease. Brain Research Bulletin, 2016, 126, 347-353.	3.0	48
46	Tau and Axonal Transport Misregulation in Tauopathies. Advances in Experimental Medicine and Biology, 2019, 1184, 81-95.	1.6	46
47	ALS-linked FUS exerts a gain of toxic function involving aberrant p38 MAPK activation. Scientific Reports, 2017, 7, 115.	3.3	45
48	A Perspective on Neuronal Cell Death Signaling and Neurodegeneration. Molecular Neurobiology, 2010, 42, 25-31.	4.0	42
49	Analysis of isoform-specific tau aggregates suggests a common toxic mechanism involving similar pathological conformations and axonal transport inhibition. Neurobiology of Aging, 2016, 47, 113-126.	3.1	41
50	Amyloid Î² precursor protein as a molecular target for amyloid Î²â€"induced neuronal degeneration in Alzheimer's disease. Neurobiology of Aging, 2013, 34, 2525-2537.	3.1	40
51	Pretangle pathology within cholinergic nucleus basalis neurons coincides with neurotrophic and neurotransmitter receptor gene dysregulation during the progression of Alzheimer's disease. Neurobiology of Disease, 2018, 117, 125-136.	4.4	37
52	1-Methyl-4-phenylpyridinium induces synaptic dysfunction through a pathway involving caspase and PKCÂ enzymatic activities. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 2437-2441.	7.1	32
53	Microtubule-Severing ATPase Spastin in Glioblastoma: Increased Expression in Human Glioblastoma Cell Lines and Inverse Roles in Cell Motility and Proliferation. Journal of Neuropathology and Experimental Neurology, 2011, 70, 811-826.	1.7	32
54	Internalization and Axonal Transport of the HIV Glycoprotein gp120. ASN Neuro, 2015, 7, 175909141456818.	2.7	31

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55	Tau: A Signaling Hub Protein. Frontiers in Molecular Neuroscience, 2021, 14, 647054.	2.9	29
56	Pseudophosphorylation of tau at S422 enhances SDS-stable dimer formation and impairs both anterograde and retrograde fast axonal transport. Experimental Neurology, 2016, 283, 318-329.	4.1	28
57	Detection of axonal degeneration in a mouse model of Huntingtonâ€™s disease: comparison between diffusion tensor imaging and anomalous diffusion metrics. Magnetic Resonance Materials in Physics, Biology, and Medicine, 2019, 32, 461-471.	2.0	28
58	Mutant spastin proteins promote deficits in axonal transport through an isoform-specific mechanism involving casein kinase 2 activation. Human Molecular Genetics, 2017, 26, 2321-2334.	2.9	27
59	Fast axonal transport in isolated axoplasm from the squid giant axon. Methods in Cell Biology, 2016, 131, 331-348.	1.1	25
60	Hereditary spastic paraplegia: gain-of-function mechanisms revealed by new transgenic mouse. Human Molecular Genetics, 2019, 28, 1136-1152.	2.9	22
61	Axonal Transport. , 2012, , 146-164.		20
62	The NF2 tumor suppressor regulates microtubule-based vesicle trafficking via a novel Rac, MLK and p38SAPK pathway. Oncogene, 2013, 32, 1135-1143.	5.9	20
63	Prion protein inhibits fast axonal transport through a mechanism involving casein kinase 2. PLoS ONE, 2017, 12, e0188340.	2.5	14
64	Defined Tau Phosphospecies Differentially Inhibit Fast Axonal Transport Through Activation of Two Independent Signaling Pathways. Frontiers in Molecular Neuroscience, 2020, 13, 610037.	2.9	13
65	Approaches to Study Interactions Between Kinesin Motors and Membranes. , 2001, 164, 147-162.		11
66	Biochemical analysis of axon-specific phosphorylation events using isolated squid axoplasms. Methods in Cell Biology, 2016, 131, 199-216.	1.1	10
67	A novel rat model of Alzheimerâ€™s disease based on lentiviral-mediated expression of mutant APP. Neuroscience, 2015, 284, 99-106.	2.3	9
68	Alterations in Activity-Dependent Neuroprotective Protein in Sporadic and Experimental Parkinsonâ€™s Disease. Journal of Parkinson's Disease, 2016, 6, 77-97.	2.8	9
69	HIV Glycoprotein Gp120 Impairs Fast Axonal Transport by Activating Tak1 Signaling Pathways. ASN Neuro, 2016, 8, 175909141667907.	2.7	9
70	Approaches to Kinesin-1 Phosphorylation. Methods in Molecular Biology, 2007, 392, 51-69.	0.9	9
71	Engagement of Neurotropic Viruses in Fast Axonal Transport: Mechanisms, Potential Role of Host Kinases and Implications for Neuronal Dysfunction. Frontiers in Cellular Neuroscience, 2021, 15, 684762.	3.7	8
72	Frontotemporal Lobar Dementia Mutant Tau Impairs Axonal Transport through a Protein Phosphatase 1Î³-Dependent Mechanism. Journal of Neuroscience, 2021, 41, 9431-9451.	3.6	8

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73	EGF Treatment Improves Motor Behavior and Cortical GABAergic Function in the R6/2 Mouse Model of Huntingtonâ€™s Disease. Molecular Neurobiology, 2019, 56, 7708-7718.	4.0	6
74	Multicomponent diffusion analysis reveals microstructural alterations in spinal cord of a mouse model of amyotrophic lateral sclerosis ex vivo. PLoS ONE, 2020, 15, e0231598.	2.5	5
75	Therapeutic Strategies for Mutant SPAST-Based Hereditary Spastic Paraplegia. Brain Sciences, 2021, 11, 1081.	2.3	5
76	Intracellular Trafficking. , 2012, , 119-145.		4
77	Modeling gain-of-function and loss-of-function components of<i>SPAST</i>-based hereditary spastic paraplegia using transgenic mice. Human Molecular Genetics, 2022, 31, 1844-1859.	2.9	4
78	Pictures in Cell Biology GSK-3 and regulation of kinesin function. Trends in Cell Biology, 2002, 12, 245.	7.9	3
79	Identification of a novel pathway for the in vivo regulation of fast anterograde axonal transport. Journal of Neurochemistry, 2008, 81, 93-94.	3.9	0
80	Measuring Tau's Effect on Kinesin Motility in Model Systems for Axonal Transport. Biophysical Journal, 2011, 100, 449a.	0.5	0
81	Regulation of Axonal Transport by Kinesin Phosphorylation at S176. Biophysical Journal, 2012, 102, 370a.	0.5	0
82	Regulation of Tau Dynamics by Phosphorylation in the Squid Giant Axon. Biophysical Journal, 2015, 108, 450a.	0.5	0
83	Intraneuronal traffic of the Amyloid Precursor Protein. , 0, 2007, .		0
84	Abstract C213: Eribulin, vincristine, ixabepilone, and paclitaxel inhibit neuronal cell function by varied mechanisms and to varying degrees.. , 2011, , .		0
85	Approaches to Kinesin-1 Phosphorylation. , 0, , 51-70.		0