

Ralph A Nixon

List of Publications by Year in descending order

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164
papers

36,119
citations

6124

83
h-index

6686

161
g-index

179
all docs

179
docs citations

179
times ranked

41393
citing authors

#	ARTICLE	IF	CITATIONS
1	Guidelines for the use and interpretation of assays for monitoring autophagy (3rd edition). <i>Autophagy</i> , 2016, 12, 1-222.	4.3	4,701
2	Guidelines for the use and interpretation of assays for monitoring autophagy. <i>Autophagy</i> , 2012, 8, 445-544.	4.3	3,122
3	The role of autophagy in neurodegenerative disease. <i>Nature Medicine</i> , 2013, 19, 983-997.	15.2	1,642
4	A β peptide immunization reduces behavioural impairment and plaques in a model of Alzheimer's disease. <i>Nature</i> , 2000, 408, 979-982.	13.7	1,472
5	Extensive Involvement of Autophagy in Alzheimer Disease: An Immuno-Electron Microscopy Study. <i>Journal of Neuropathology and Experimental Neurology</i> , 2005, 64, 113-122.	0.9	1,270
6	Lysosomal Proteolysis and Autophagy Require Presenilin 1 and Are Disrupted by Alzheimer-Related PS1 Mutations. <i>Cell</i> , 2010, 141, 1146-1158.	13.5	1,002
7	Autophagy Induction and Autophagosome Clearance in Neurons: Relationship to Autophagic Pathology in Alzheimer's Disease. <i>Journal of Neuroscience</i> , 2008, 28, 6926-6937.	1.7	979
8	Macroautophagy—a novel β -amyloid peptide-generating pathway activated in Alzheimer's disease. <i>Journal of Cell Biology</i> , 2005, 171, 87-98.	2.3	891
9	Alzheimer disease. <i>Nature Reviews Disease Primers</i> , 2021, 7, 33.	18.1	784
10	Endocytic Pathway Abnormalities Precede Amyloid β Deposition in Sporadic Alzheimer's Disease and Down Syndrome. <i>American Journal of Pathology</i> , 2000, 157, 277-286.	1.9	737
11	Autophagy, amyloidogenesis and Alzheimer disease. <i>Journal of Cell Science</i> , 2007, 120, 4081-4091.	1.2	631
12	Autophagy failure in Alzheimer's disease—locating the primary defect. <i>Neurobiology of Disease</i> , 2011, 43, 38-45.	2.1	560
13	Increased App Expression in a Mouse Model of Down's Syndrome Disrupts NGF Transport and Causes Cholinergic Neuron Degeneration. <i>Neuron</i> , 2006, 51, 29-42.	3.8	488
14	Neurofilaments and Neurofilament Proteins in Health and Disease. <i>Cold Spring Harbor Perspectives in Biology</i> , 2017, 9, a018309.	2.3	451
15	Autophagy and Its Possible Roles in Nervous System Diseases, Damage and Repair. <i>Autophagy</i> , 2005, 1, 11-22.	4.3	422
16	Reversal of autophagy dysfunction in the TgCRND8 mouse model of Alzheimer's disease ameliorates amyloid pathologies and memory deficits. <i>Brain</i> , 2011, 134, 258-277.	3.7	394
17	Lysosomal Proteolysis Inhibition Selectively Disrupts Axonal Transport of Degradative Organelles and Causes an Alzheimer's-Like Axonal Dystrophy. <i>Journal of Neuroscience</i> , 2011, 31, 7817-7830.	1.7	381
18	Promoting the clearance of neurotoxic proteins in neurodegenerative disorders of ageing. <i>Nature Reviews Drug Discovery</i> , 2018, 17, 660-688.	21.5	370

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19	Increased Neuronal Endocytosis and Protease Delivery to Early Endosomes in Sporadic Alzheimer's Disease: Neuropathologic Evidence for a Mechanism of Increased β -Amyloidogenesis. <i>Journal of Neuroscience</i> , 1997, 17, 6142-6151.	1.7	367
20	Endosome function and dysfunction in Alzheimer's disease and other neurodegenerative diseases. <i>Neurobiology of Aging</i> , 2005, 26, 373-382.	1.5	355
21	Disorders of lysosomal acidification—The emerging role of v-ATPase in aging and neurodegenerative disease. <i>Ageing Research Reviews</i> , 2016, 32, 75-88.	5.0	355
22	Gene expression and cellular content of cathepsin D in Alzheimer's disease brain: Evidence for early up-regulation of the endosomal-lysosomal system. <i>Neuron</i> , 1995, 14, 671-680.	3.8	341
23	β localization in abnormal endosomes: association with earliest β elevations in AD and Down syndrome. <i>Neurobiology of Aging</i> , 2004, 25, 1263-1272.	1.5	338
24	Neurodegenerative lysosomal disorders: A continuum from development to late age. <i>Autophagy</i> , 2008, 4, 590-599.	4.3	322
25	Autophagy failure in Alzheimer's disease and the role of defective lysosomal acidification. <i>European Journal of Neuroscience</i> , 2013, 37, 1949-1961.	1.2	306
26	The endosomal-lysosomal system of neurons in Alzheimer's disease pathogenesis: a review. <i>Neurochemical Research</i> , 2000, 25, 1161-1172.	1.6	304
27	Neurofilaments at a glance. <i>Journal of Cell Science</i> , 2012, 125, 3257-3263.	1.2	304
28	Autophagy in neurodegenerative disease: friend, foe or turncoat?. <i>Trends in Neurosciences</i> , 2006, 29, 528-535.	4.2	303
29	Autophagic vacuoles are enriched in amyloid precursor protein-secretase activities: implications for β -amyloid peptide over-production and localization in Alzheimer's disease. <i>International Journal of Biochemistry and Cell Biology</i> , 2004, 36, 2531-2540.	1.2	279
30	Presenilin 1 Maintains Lysosomal Ca^{2+} Homeostasis via TRPML1 by Regulating vATPase-Mediated Lysosome Acidification. <i>Cell Reports</i> , 2015, 12, 1430-1444.	2.9	272
31	Alzheimer's-related endosome dysfunction in Down syndrome is β -independent but requires APP and is reversed by BACE-1 inhibition. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 1630-1635.	3.3	256
32	Faulty autolysosome acidification in Alzheimer's disease mouse models induces autophagic build-up of β in neurons, yielding senile plaques. <i>Nature Neuroscience</i> , 2022, 25, 688-701.	7.1	254
33	Autophagy flux in CA1 neurons of Alzheimer hippocampus: Increased induction overburdens failing lysosomes to propel neuritic dystrophy. <i>Autophagy</i> , 2016, 12, 2467-2483.	4.3	252
34	Amyloid precursor protein and endosomal-lysosomal dysfunction in Alzheimer's disease: inseparable partners in a multifactorial disease. <i>FASEB Journal</i> , 2017, 31, 2729-2743.	0.2	249
35	Amyloid-Independent Mechanisms in Alzheimer's Disease Pathogenesis. <i>Journal of Neuroscience</i> , 2010, 30, 14946-14954.	1.7	244
36	Caspase-Mediated Fragmentation of Calpain Inhibitor Protein Calpastatin during Apoptosis. <i>Archives of Biochemistry and Biophysics</i> , 1998, 356, 187-196.	1.4	242

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37	Oligodendroglia Regulate the Regional Expansion of Axon Caliber and Local Accumulation of Neurofilaments during Development Independently of Myelin Formation. <i>Journal of Neuroscience</i> , 1996, 16, 5095-5105.	1.7	238
38	Microarray Analysis of Hippocampal CA1 Neurons Implicates Early Endosomal Dysfunction During Alzheimer's Disease Progression. <i>Biological Psychiatry</i> , 2010, 68, 885-893.	0.7	229
39	<i>App</i> Gene Dosage Modulates Endosomal Abnormalities of Alzheimer's Disease in a Segmental Trisomy 16 Mouse Model of Down Syndrome. <i>Journal of Neuroscience</i> , 2003, 23, 6788-6792.	1.7	218
40	Down syndrome and Alzheimer's disease: Common pathways, common goals. <i>Alzheimer's and Dementia</i> , 2015, 11, 700-709.	0.4	218
41	Lysosomal system pathways: Genes to neurodegeneration in Alzheimer's disease. <i>Journal of Alzheimer's Disease</i> , 2006, 9, 277-289.	1.2	211
42	Lysosome trafficking and signaling in health and neurodegenerative diseases. <i>Neurobiology of Disease</i> , 2019, 122, 94-105.	2.1	208
43	Dynamics of neuronal intermediate filaments: A developmental perspective. <i>Cytoskeleton</i> , 1992, 22, 81-91.	4.4	207
44	Ubiquilin functions in autophagy and is degraded by chaperone-mediated autophagy. <i>Human Molecular Genetics</i> , 2010, 19, 3219-3232.	1.4	203
45	Rab5-stimulated Up-regulation of the Endocytic Pathway Increases Intracellular β -Cleaved Amyloid Precursor Protein Carboxyl-terminal Fragment Levels and $A\beta$ Production. <i>Journal of Biological Chemistry</i> , 2003, 278, 31261-31268.	1.6	199
46	Lysosomal abnormalities in degenerating neurons link neuronal compromise to senile plaque development in Alzheimer disease. <i>Brain Research</i> , 1994, 640, 68-80.	1.1	198
47	β -Internexin Is Structurally and Functionally Associated with the Neurofilament Triplet Proteins in the Mature CNS. <i>Journal of Neuroscience</i> , 2006, 26, 10006-10019.	1.7	194
48	Inhibition of calpains improves memory and synaptic transmission in a mouse model of Alzheimer disease. <i>Journal of Clinical Investigation</i> , 2008, 118, 2796-2807.	3.9	192
49	The calpains in aging and aging-related diseases. <i>Ageing Research Reviews</i> , 2003, 2, 407-418.	5.0	190
50	Neurofilaments: neurobiological foundations for biomarker applications. <i>Brain</i> , 2020, 143, 1975-1998.	3.7	167
51	Axonal Transport Rates <i>In Vivo</i> Are Unaffected by Tau Deletion or Overexpression in Mice. <i>Journal of Neuroscience</i> , 2008, 28, 1682-1687.	1.7	165
52	Down Syndrome Fibroblast Model of Alzheimer-Related Endosome Pathology. <i>American Journal of Pathology</i> , 2008, 173, 370-384.	1.9	161
53	The Regulation of Neurofilament Protein Dynamics by Phosphorylation: Clues to Neurofibrillary Pathobiology. <i>Brain Pathology</i> , 1993, 3, 29-38.	2.1	155
54	Neuronal Apoptosis and Autophagy Cross Talk in Aging PS/APP Mice, a Model of Alzheimer's Disease. <i>American Journal of Pathology</i> , 2008, 173, 665-681.	1.9	153

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55	Neuronal macroautophagy: From development to degeneration. <i>Molecular Aspects of Medicine</i> , 2006, 27, 503-519.	2.7	151
56	The endosomal-lysosomal system of neurons: new roles. <i>Trends in Neurosciences</i> , 1995, 18, 489-496.	4.2	149
57	Autophagy and Neuronal Cell Death in Neurological Disorders. <i>Cold Spring Harbor Perspectives in Biology</i> , 2012, 4, a008839-a008839.	2.3	145
58	Local Control of Neurofilament Accumulation during Radial Growth of Myelinating Axons in Vivo. <i>Journal of Cell Biology</i> , 2000, 151, 1013-1024.	2.3	144
59	Presenilin Mutations in Familial Alzheimer Disease and Transgenic Mouse Models Accelerate Neuronal Lysosomal Pathology. <i>Journal of Neuropathology and Experimental Neurology</i> , 2004, 63, 821-830.	0.9	139
60	The Ubiquitin-Proteasome System and the Autophagic-Lysosomal System in Alzheimer Disease. <i>Cold Spring Harbor Perspectives in Medicine</i> , 2012, 2, a006361-a006361.	2.9	139
61	Dysfunction of autophagy and endosomal-lysosomal pathways: Roles in pathogenesis of Down syndrome and Alzheimer's Disease. <i>Free Radical Biology and Medicine</i> , 2018, 114, 40-51.	1.3	128
62	Niemann-Pick Type C Disease and Alzheimer's Disease. <i>American Journal of Pathology</i> , 2004, 164, 757-761.	1.9	127
63	Calpain Mediates Calcium-Induced Activation of the Erk1,2 MAPK Pathway and Cytoskeletal Phosphorylation in Neurons. <i>American Journal of Pathology</i> , 2004, 165, 795-805.	1.9	125
64	Gene replacement in mice reveals that the heavily phosphorylated tail of neurofilament heavy subunit does not affect axonal caliber or the transit of cargoes in slow axonal transport. <i>Journal of Cell Biology</i> , 2002, 158, 681-693.	2.3	124
65	The neuronal endosomal-lysosomal system in Alzheimer's disease. <i>Journal of Alzheimer's Disease</i> , 2001, 3, 97-107.	1.2	112
66	Amyloid- β Deposition Is Associated with Decreased Hippocampal Glucose Metabolism and Spatial Memory Impairment in APP/PS1 Mice. <i>Journal of Neuropathology and Experimental Neurology</i> , 2004, 63, 418-428.	0.9	111
67	Regional Selectivity of rab5 and rab7 Protein Upregulation in Mild Cognitive Impairment and Alzheimer's Disease. <i>Journal of Alzheimer's Disease</i> , 2010, 22, 631-639.	1.2	110
68	Lysosomal NEU1 deficiency affects amyloid precursor protein levels and amyloid- β secretion via deregulated lysosomal exocytosis. <i>Nature Communications</i> , 2013, 4, 2734.	5.8	109
69	Single-Walled Carbon Nanotubes Alleviate Autophagic/Lysosomal Defects in Primary Glia from a Mouse Model of Alzheimer's Disease. <i>Nano Letters</i> , 2014, 14, 5110-5117.	4.5	109
70	Lysosomal Dysfunction in Down Syndrome Is APP-Dependent and Mediated by APP- β CTF (C99). <i>Journal of Neuroscience</i> , 2019, 39, 5255-5268.	1.7	109
71	The neurofilament middle molecular mass subunit carboxyl-terminal tail domains is essential for the radial growth and cytoskeletal architecture of axons but not for regulating neurofilament transport rate. <i>Journal of Cell Biology</i> , 2003, 163, 1021-1031.	2.3	108
72	Upregulation of select rab GTPases in cholinergic basal forebrain neurons in mild cognitive impairment and Alzheimer's disease. <i>Journal of Chemical Neuroanatomy</i> , 2011, 42, 102-110.	1.0	107

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73	Myosin Va binding to neurofilaments is essential for correct myosin Va distribution and transport and neurofilament density. <i>Journal of Cell Biology</i> , 2002, 159, 279-290.	2.3	106
74	Neurofilament Proteins as Biomarkers to Monitor Neurological Diseases and the Efficacy of Therapies. <i>Frontiers in Neuroscience</i> , 2021, 15, 689938.	1.4	104
75	Induction of Autophagy by Cystatin C: A Mechanism That Protects Murine Primary Cortical Neurons and Neuronal Cell Lines. <i>PLoS ONE</i> , 2010, 5, e9819.	1.1	104
76	Calpain Activity Regulates the Cell Surface Distribution of Amyloid Precursor Protein. <i>Journal of Biological Chemistry</i> , 2002, 277, 36415-36424.	1.6	96
77	Marked Calpastatin (CAST) Depletion in Alzheimer's Disease Accelerates Cytoskeleton Disruption and Neurodegeneration: Neuroprotection by CAST Overexpression. <i>Journal of Neuroscience</i> , 2008, 28, 12241-12254.	1.7	96
78	Peripherin Is a Subunit of Peripheral Nerve Neurofilaments: Implications for Differential Vulnerability of CNS and Peripheral Nervous System Axons. <i>Journal of Neuroscience</i> , 2012, 32, 8501-8508.	1.7	95
79	Neurofilaments Form a Highly Stable Stationary Cytoskeleton after Reaching a Critical Level in Axons. <i>Journal of Neuroscience</i> , 2009, 29, 11316-11329.	1.7	94
80	Calpain activation in neurodegenerative diseases: confocal immunofluorescence study with antibodies specifically recognizing the active form of calpain 2. <i>Acta Neuropathologica</i> , 2002, 104, 92-104.	3.9	93
81	Defective macroautophagic turnover of brain lipids in the TgCRND8 Alzheimer mouse model: prevention by correcting lysosomal proteolytic deficits. <i>Brain</i> , 2014, 137, 3300-3318.	3.7	92
82	Therapeutic effects of remediating autophagy failure in a mouse model of Alzheimer disease by enhancing lysosomal proteolysis. <i>Autophagy</i> , 2011, 7, 788-789.	4.3	89
83	Lysosome and calcium dysregulation in Alzheimer's disease: partners in crime. <i>Biochemical Society Transactions</i> , 2013, 41, 1495-1502.	1.6	88
84	A "Protease Activation Cascade" in the Pathogenesis of Alzheimer's Disease. <i>Annals of the New York Academy of Sciences</i> , 2000, 924, 117-131.	1.8	87
85	Specific Calpain Inhibition by Calpastatin Prevents Tauopathy and Neurodegeneration and Restores Normal Lifespan in Tau P301L Mice. <i>Journal of Neuroscience</i> , 2014, 34, 9222-9234.	1.7	87
86	Alzheimer's Disease-related Overexpression of the Cation-dependent Mannose 6-Phosphate Receptor Increases A β Secretion. <i>Journal of Biological Chemistry</i> , 2002, 277, 5299-5307.	1.6	85
87	Degradation of Neurofilament Proteins by Purified Human Brain Cathepsin D. <i>Journal of Neurochemistry</i> , 1984, 43, 507-516.	2.1	84
88	The Lysosomal System in Neuronal Cell Death: A Review. <i>Annals of the New York Academy of Sciences</i> , 1993, 679, 87-109.	1.8	81
89	Endocytic disturbances distinguish among subtypes of alzheimer's disease and related disorders. <i>Annals of Neurology</i> , 2001, 50, 661-665.	2.8	80
90	Cellular Expression and Proteolytic Processing of Presenilin Proteins Is Developmentally Regulated During Neuronal Differentiation. <i>Journal of Neurochemistry</i> , 1997, 69, 2432-2440.	2.1	79

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91	Early posttranslational modifications of the three neurofilament subunits in mouse retinal ganglion cells: neuronal sites and time course in relation to subunit polymerization and axonal transport. <i>Molecular Brain Research</i> , 1989, 5, 93-108.	2.5	76
92	Age-dependent dysregulation of brain amyloid precursor protein in the Ts65Dn Down syndrome mouse model. <i>Journal of Neurochemistry</i> , 2009, 110, 1818-1827.	2.1	76
93	Primary lysosomal dysfunction causes cargo-specific deficits of axonal transport leading to Alzheimer-like neuritic dystrophy. <i>Autophagy</i> , 2011, 7, 1562-1563.	4.3	75
94	The aging lysosome: An essential catalyst for late-onset neurodegenerative diseases. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2020, 1868, 140443.	1.1	75
95	Differential Expression and Subcellular Localization of Protein Kinase C δ , ϵ , ζ , and η Isoforms in SH-SY5Y Neuroblastoma Cells: Modifications During Differentiation. <i>Journal of Neurochemistry</i> , 1993, 60, 289-298.	2.1	74
96	Aluminum Inhibits Calpain-Mediated Proteolysis and Induces Human Neurofilament Proteins to Form Protease-Resistant High Molecular Weight Complexes. <i>Journal of Neurochemistry</i> , 1990, 55, 1950-1959.	2.1	73
97	Partial BACE1 reduction in a Down syndrome mouse model blocks Alzheimer-related endosomal anomalies and cholinergic neurodegeneration: role of APP-CTF. <i>Neurobiology of Aging</i> , 2016, 39, 90-98.	1.5	73
98	mTOR hyperactivation in Down Syndrome underlies deficits in autophagy induction, autophagosome formation, and mitophagy. <i>Cell Death and Disease</i> , 2019, 10, 563.	2.7	72
99	Calcium-Activated Neutral Proteinases as Regulators of Cellular Function Implications for Alzheimer's Disease Pathogenesis. <i>Annals of the New York Academy of Sciences</i> , 1989, 568, 198-208.	1.8	69
100	Colocalization of Lysosomal Hydrolase and β -Amyloid in Diffuse Plaques of the Cerebellum and Striatum in Alzheimer's Disease and Down's Syndrome. <i>Journal of Neuropathology and Experimental Neurology</i> , 1996, 55, 704-715.	0.9	69
101	Phosphorylation of neurofilament proteins by protein kinase C. <i>FEBS Letters</i> , 1988, 233, 181-185.	1.3	66
102	Calpain I activation in rat hippocampal neurons in culture is NMDA receptor selective and not essential for excitotoxic cell death. <i>Molecular Brain Research</i> , 1998, 54, 35-48.	2.5	65
103	Characterization and Comparison of Neurofilament Proteins from Rat and Mouse CNS. <i>Journal of Neurochemistry</i> , 1981, 36, 143-153.	2.1	64
104	2014 Report on the Milestones for the US National Plan to Address Alzheimer's Disease. , 2014, 10, S430-S452.		64
105	Proteolysis of protein kinase C: mM and μ M calcium-requiring calpains have different abilities to generate, and degrade the free catalytic subunit, protein kinase M. <i>FEBS Letters</i> , 1995, 367, 223-227.	1.3	63
106	Dynamic behavior and organization of cytoskeletal proteins in neurons: reconciling old and new findings. <i>BioEssays</i> , 1998, 20, 798-807.	1.2	63
107	ELISA Method for Measurement of Amyloid- β Levels. , 2005, 299, 279-298.		63
108	Specialized roles of neurofilament proteins in synapses: Relevance to neuropsychiatric disorders. <i>Brain Research Bulletin</i> , 2016, 126, 334-346.	1.4	63

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109	Calpain Inhibitors, a Treatment for Alzheimer's Disease: Position Paper. <i>Journal of Molecular Neuroscience</i> , 2003, 20, 357-362.	1.1	61
110	Early hyperactivity in lateral entorhinal cortex is associated with elevated levels of A β 2PP metabolites in the Tg2576 mouse model of Alzheimer's disease. <i>Experimental Neurology</i> , 2015, 264, 82-91.	2.0	60
111	Defective neurofilament transport in mouse models of amyotrophic lateral sclerosis: a review. <i>Neurochemical Research</i> , 2003, 28, 1041-1047.	1.6	59
112	Dynamics of Phosphorylation and Assembly of the High Molecular Weight Neurofilament Subunit in NB2a/d1 Neuroblastoma. <i>Journal of Neurochemistry</i> , 1990, 55, 1784-1792.	2.1	58
113	Endosomal Dysfunction Induced by Directly Overactivating Rab5 Recapitulates Prodromal and Neurodegenerative Features of Alzheimer's Disease. <i>Cell Reports</i> , 2020, 33, 108420.	2.9	58
114	Distinct Mechanisms of Differentiation of SH-SY5Y Neuroblastoma Cells by Protein Kinase C Activators and Inhibitors. <i>Journal of Neurochemistry</i> , 1992, 58, 1191-1198.	2.1	54
115	Calcium Influx into Human Neuroblastoma Cells Induces ALZ β 50 Immunoreactivity: Involvement of Calpain-Mediated Hydrolysis of Protein Kinase C. <i>Journal of Neurochemistry</i> , 1996, 66, 1539-1549.	2.1	54
116	Calpain inhibitors. <i>Journal of Molecular Neuroscience</i> , 2002, 19, 135-141.	1.1	53
117	Cystatin C Rescues Degenerating Neurons in a Cystatin B-Knockout Mouse Model of Progressive Myoclonus Epilepsy. <i>American Journal of Pathology</i> , 2010, 177, 2256-2267.	1.9	51
118	Neurofilament Transport <i>In Vivo</i> Minimally Requires Hetero-Oligomer Formation. <i>Journal of Neuroscience</i> , 2003, 23, 9452-9458.	1.7	50
119	Multiple Proteases Regulate Neurite Outgrowth in NB2a/d1 Neuroblastoma Cells. <i>Journal of Neurochemistry</i> , 1991, 56, 842-851.	2.1	49
120	Transgenic expression of a ratiometric autophagy probe specifically in neurons enables the interrogation of brain autophagy <i>in vivo</i> . <i>Autophagy</i> , 2019, 15, 543-557.	4.3	49
121	Calcium-Activated Neutral Proteinase of Human Brain: Subunit Structure and Enzymatic Properties of Multiple Molecular Forms. <i>Journal of Neurochemistry</i> , 1986, 47, 1039-1051.	2.1	48
122	In vivo MRI identifies cholinergic circuitry deficits in a Down syndrome model. <i>Neurobiology of Aging</i> , 2009, 30, 1453-1465.	1.5	48
123	Post-Golgi carriers, not lysosomes, confer lysosomal properties to pre-degradative organelles in normal and dystrophic axons. <i>Cell Reports</i> , 2021, 35, 109034.	2.9	46
124	Aluminum Alters the Electrophoretic Properties of Neurofilament Proteins: Role of Phosphorylation State. <i>Journal of Neurochemistry</i> , 1992, 58, 542-547.	2.1	43
125	Deleting the phosphorylated tail domain of the neurofilament heavy subunit does not alter neurofilament transport rate <i>in vivo</i> . <i>Neuroscience Letters</i> , 2006, 393, 264-268.	1.0	43
126	The Myosin Va Head Domain Binds to the Neurofilament-L Rod and Modulates Endoplasmic Reticulum (ER) Content and Distribution within Axons. <i>PLoS ONE</i> , 2011, 6, e17087.	1.1	43

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127	Enhancement of Neurite Outgrowth Following Calpain Inhibition Is Mediated by Protein Kinase C. <i>Journal of Neurochemistry</i> , 1995, 65, 517-527.	2.1	42
128	Declining phosphatases underlie aging-related hyperphosphorylation of neurofilaments. <i>Neurobiology of Aging</i> , 2011, 32, 2016-2029.	1.5	42
129	Degenerative changes in epinephrine tonic vasomotor neurons in Alzheimer's disease. <i>Brain Research</i> , 1994, 661, 35-42.	1.1	41
130	Cognitive Impairment, Neuroimaging, and Alzheimer Neuropathology in Mouse Models of Down Syndrome. <i>Current Alzheimer Research</i> , 2015, 13, 35-52.	0.7	41
131	Tissue Processing Prior to Protein Analysis and Amyloid- β Quantitation. , 2005, 299, 267-278.		40
132	Proteases of human brain. <i>Neurochemical Research</i> , 1984, 9, 291-323.	1.6	39
133	Calpastatin inhibits motor neuron death and increases survival of hSOD1 ^{G93A} mice. <i>Journal of Neurochemistry</i> , 2016, 137, 253-265.	2.1	37
134	Neurofilament light interaction with GluN1 modulates neurotransmission and schizophrenia-associated behaviors. <i>Translational Psychiatry</i> , 2018, 8, 167.	2.4	37
135	Triton-soluble phosphovariants of the heavy neurofilament subunit in developing and mature mouse central nervous system. <i>Journal of Neuroscience Research</i> , 1997, 48, 515-523.	1.3	35
136	Medical bioremediation: Prospects for the application of microbial catabolic diversity to aging and several major age-related diseases. <i>Ageing Research Reviews</i> , 2005, 4, 315-338.	5.0	34
137	Immunization targeting a minor plaque constituent clears β -amyloid and rescues behavioral deficits in an Alzheimer's disease mouse model. <i>Neurobiology of Aging</i> , 2013, 34, 137-145.	1.5	33
138	Immunocytochemistry of formalin-fixed human brain tissues: microwave irradiation of free-floating sections. <i>Brain Research Protocols</i> , 1998, 2, 109-119.	1.7	32
139	Rapamycin induces autophagic flux in neurons. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, E181; author reply E182.	3.3	32
140	The C-Terminal Domains of NF-H and NF-M Subunits Maintain Axonal Neurofilament Content by Blocking Turnover of the Stationary Neurofilament Network. <i>PLoS ONE</i> , 2012, 7, e44320.	1.1	31
141	A "protease activation cascade" in the pathogenesis of Alzheimer's disease. <i>Annals of the New York Academy of Sciences</i> , 2000, 924, 117-31.	1.8	28
142	Axonal transport of late endosomes and amphisomes is selectively modulated by local Ca ²⁺ efflux and disrupted by PSEN1 loss of function. <i>Science Advances</i> , 2022, 8, eabj5716.	4.7	28
143	Chapter 6 Monitoring Autophagy in Alzheimer's Disease and Related Neurodegenerative Diseases. <i>Methods in Enzymology</i> , 2009, 453, 111-144.	0.4	26
144	Cyclodextrin has conflicting actions on autophagy flux in vivo in brains of normal and Alzheimer model mice. <i>Human Molecular Genetics</i> , 2017, 26, ddx001.	1.4	25

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145	Immunoassay and Activity of Calcium-Activated Neutral Proteinase (mCANP): Distribution in Soluble and Membrane-Associated Fractions in Human and Mouse Brain. <i>Journal of Neurochemistry</i> , 1992, 58, 1526-1532.	2.1	24
146	Specificity of calcium-activated neutral proteinase (CANP) inhibitors for human α -CANP and mCANP. <i>Neurochemical Research</i> , 1993, 18, 231-233.	1.6	24
147	P301L tauopathy. <i>Journal of the Neurological Sciences</i> , 2002, 200, 85-93.	0.3	24
148	Setback for an Alzheimer's disease vaccine. <i>Neurology</i> , 2003, 61, 7-8.	1.5	23
149	β 2-adrenergic Agonists Rescue Lysosome Acidification and Function in PSEN1 Deficiency by Reversing Defective ER-to-lysosome Delivery of CLC-7. <i>Journal of Molecular Biology</i> , 2020, 432, 2633-2650.	2.0	23
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