

Roland Brandt

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

87
papers

4,885
citations

38
h-index

69
g-index

99
ext. papers

5,613
ext. citations

5.1
avg, IF

5.47
L-index

#	Paper	IF	Citations
87	Interaction of tau with the neural plasma membrane mediated by tau ^T amino-terminal projection domain. <i>Journal of Cell Biology</i> , 1995 , 131, 1327-40	7.3	515
86	CD95 ligand (Fas-L/APO-1L) and tumor necrosis factor-related apoptosis-inducing ligand mediate ischemia-induced apoptosis in neurons. <i>Journal of Neuroscience</i> , 1999 , 19, 3809-17	6.6	371
85	Molecular interactions among protein phosphatase 2A, tau, and microtubules. Implications for the regulation of tau phosphorylation and the development of tauopathies. <i>Journal of Biological Chemistry</i> , 1999 , 274, 25490-8	5.4	233
84	Process outgrowth of oligodendrocytes is promoted by interaction of fyn kinase with the cytoskeletal protein tau. <i>Journal of Neuroscience</i> , 2002 , 22, 698-707	6.6	202
83	Tau binds to the distal axon early in development of polarity in a microtubule- and microfilament-dependent manner. <i>Journal of Neuroscience</i> , 1996 , 16, 5583-92	6.6	188
82	Tau-mediated cytotoxicity in a pseudohyperphosphorylation model of Alzheimer ^T disease. <i>Journal of Neuroscience</i> , 2002 , 22, 9733-41	6.6	182
81	Interaction of tau with the neural membrane cortex is regulated by phosphorylation at sites that are modified in paired helical filaments. <i>Journal of Biological Chemistry</i> , 2000 , 275, 15733-40	5.4	170
80	Tau alteration and neuronal degeneration in tauopathies: mechanisms and models. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2005 , 1739, 331-54	6.9	154
79	Functions and malfunctions of the tau proteins. <i>Cellular and Molecular Life Sciences</i> , 2002 , 59, 1668-80	10.3	127
78	Divergent pathways mediate spine alterations and cell death induced by amyloid-beta, wild-type tau, and R406W tau. <i>Journal of Neuroscience</i> , 2009 , 29, 14439-50	6.6	106
77	Single-molecule tracking of tau reveals fast kiss-and-hop interaction with microtubules in living neurons. <i>Molecular Biology of the Cell</i> , 2014 , 25, 3541-51	3.5	101
76	NMDA receptor subunit composition determines beta-amyloid-induced neurodegeneration and synaptic loss. <i>Cell Death and Disease</i> , 2013 , 4, e608	9.8	97
75	Structural and functional implications of tau hyperphosphorylation: information from phosphorylation-mimicking mutated tau proteins. <i>Biochemistry</i> , 2000 , 39, 13166-75	3.2	97
74	Conversion of serine to aspartate imitates phosphorylation-induced changes in the structure and function of microtubule-associated protein tau. <i>Journal of Biological Chemistry</i> , 1997 , 272, 8441-6	5.4	95
73	The frontotemporal dementia mutation R406W blocks tau ^T interaction with the membrane in an annexin A2-dependent manner. <i>Journal of Cell Biology</i> , 2011 , 192, 647-61	7.3	94
72	Tau Biology and Tau-Directed Therapies for Alzheimer ^T Disease. <i>Drugs</i> , 2016 , 76, 301-13	12.1	91
71	Phosphorylation-mimicking glutamate clusters in the proline-rich region are sufficient to simulate the functional deficiencies of hyperphosphorylated tau protein. <i>Biochemical Journal</i> , 2001 , 357, 759-767 ^{3.8}		91

70	A <i>Caenorhabditis elegans</i> model of tau hyperphosphorylation: induction of developmental defects by transgenic overexpression of Alzheimer's disease-like modified tau. <i>Neurobiology of Aging</i> , 2009 , 30, 22-33	5.6	87
69	The Rab GTPase Ypt7 is linked to retromer-mediated receptor recycling and fusion at the yeast late endosome. <i>Journal of Cell Science</i> , 2010 , 123, 4085-94	5.3	83
68	Stabilization of hyperdynamic microtubules is neuroprotective in amyotrophic lateral sclerosis. <i>Journal of Biological Chemistry</i> , 2007 , 282, 23465-72	5.4	79
67	Insulin-like growth factor 1 inhibits extracellular signal-regulated kinase to promote neuronal survival via the phosphatidylinositol 3-kinase/protein kinase A/c-Raf pathway. <i>Journal of Neuroscience</i> , 2005 , 25, 2838-52	6.6	79
66	Thin, stubby or mushroom: spine pathology in Alzheimer's disease. <i>Current Alzheimer Research</i> , 2009 , 6, 261-8	3	76
65	Tau aggregation and progressive neuronal degeneration in the absence of changes in spine density and morphology after targeted expression of Alzheimer's disease-relevant tau constructs in organotypic hippocampal slices. <i>Journal of Neuroscience</i> , 2006 , 26, 6103-14	6.6	74
64	Phosphorylation-mimicking glutamate clusters in the proline-rich region are sufficient to simulate the functional deficiencies of hyperphosphorylated tau protein. <i>Biochemical Journal</i> , 2001 , 357, 759-67	3.8	70
63	Regulation between O-GlcNAcylation and phosphorylation of neurofilament-M and their dysregulation in Alzheimer disease. <i>FASEB Journal</i> , 2008 , 22, 138-45	0.9	69
62	Single-molecule imaging reveals dynamic biphasic partition of RNA-binding proteins in stress granules. <i>Journal of Cell Biology</i> , 2018 , 217, 1303-1318	7.3	67
61	O-glycosylation of the tail domain of neurofilament protein M in human neurons and in spinal cord tissue of a rat model of amyotrophic lateral sclerosis (ALS). <i>Journal of Biological Chemistry</i> , 2005 , 280, 31648-58	5.4	62
60	The balance between tau protein's microtubule growth and nucleation activities: implications for the formation of axonal microtubules. <i>Journal of Neurochemistry</i> , 1993 , 61, 997-1005	6	60
59	Changes in microtubule turnover accompany synaptic plasticity and memory formation in response to contextual fear conditioning in mice. <i>Neuroscience</i> , 2010 , 168, 167-78	3.9	59
58	Human high temperature requirement serine protease A1 (HTRA1) degrades tau protein aggregates. <i>Journal of Biological Chemistry</i> , 2012 , 287, 20931-41	5.4	56
57	Microtubule Dynamics in Neuronal Development, Plasticity, and Neurodegeneration. <i>International Review of Cell and Molecular Biology</i> , 2016 , 321, 89-169	6	55
56	Microtubule binding and trapping at the tip of neurites regulate tau motion in living neurons. <i>Traffic</i> , 2009 , 10, 1655-68	5.7	55
55	Cytoskeletal mechanisms of neuronal degeneration. <i>Cell and Tissue Research</i> , 2001 , 305, 255-65	4.2	49
54	Inverse and distinct modulation of tau-dependent neurodegeneration by presenilin 1 and amyloid-beta in cultured cortical neurons: evidence that tau phosphorylation is the limiting factor in amyloid-beta-induced cell death. <i>Journal of Neurochemistry</i> , 2007 , 101, 1303-15	6	45
53	Cerebrospinal fluid-based kinetic biomarkers of axonal transport in monitoring neurodegeneration. <i>Journal of Clinical Investigation</i> , 2012 , 122, 3159-69	15.9	44

52	Microtubule dynamics and the neurodegenerative triad of Alzheimer's disease: The hidden connection. <i>Journal of Neurochemistry</i> , 2017 , 143, 409-417	6	38
51	Functional interactions of tau and their relevance for Alzheimer's disease. <i>Current Alzheimer Research</i> , 2004 , 1, 255-69	3	38
50	The transition of microglia to a ramified phenotype is associated with the formation of stable acetylated and detyrosinated microtubules. <i>Glia</i> , 1996 , 18, 129-40	9	38
49	Orientation, assembly, and stability of microtubule bundles induced by a fragment of tau protein. <i>Cytoskeleton</i> , 1994 , 28, 143-54		37
48	Presence of a carboxy-terminal pseudorepeat and disease-like pseudohyperphosphorylation critically influence tau's interaction with microtubules in axon-like processes. <i>Molecular Biology of the Cell</i> , 2016 , 27, 3537-3549	3.5	35
47	Annexins A2 and A6 interact with the extreme N terminus of tau and thereby contribute to tau's axonal localization. <i>Journal of Biological Chemistry</i> , 2018 , 293, 8065-8076	5.4	33
46	A β -mediated spine changes in the hippocampus are microtubule-dependent and can be reversed by a subnanomolar concentration of the microtubule-stabilizing agent epothilone D. <i>Neuropharmacology</i> , 2016 , 105, 84-95	5.5	33
45	The tau proteins in neuronal growth and development. <i>Frontiers in Bioscience - Landmark</i> , 1996 , 1, d118-308		33
44	Interplay between phosphorylation and palmitoylation mediates plasma membrane targeting and sorting of GAP43. <i>Molecular Biology of the Cell</i> , 2014 , 25, 3284-99	3.5	28
43	Region-specific dendritic simplification induced by A β mediated by tau via dysregulation of microtubule dynamics: a mechanistic distinct event from other neurodegenerative processes. <i>Molecular Neurodegeneration</i> , 2015 , 10, 60	19	27
42	Cytoskeletal mechanisms of axon outgrowth and pathfinding. <i>Cell and Tissue Research</i> , 1998 , 292, 181-9	4.2	27
41	Microtubule-bundling studies revisited: is there a role for MAPs?. <i>Trends in Cell Biology</i> , 1992 , 2, 286-9	18.3	27
40	Signaling pathways and posttranslational modifications of tau in Alzheimer's disease: the humanization of yeast cells. <i>Microbial Cell</i> , 2016 , 3, 135-146	3.9	26
39	Differential and regulated binding of cAMP-dependent protein kinase and protein kinase C isoenzymes to gravin in human model neurons: Evidence that gravin provides a dynamic platform for the localization for kinases during neuronal development. <i>Journal of Biological Chemistry</i> , 2003 , 278, 36970-9	5.4	25
38	The Evolution of Tau Phosphorylation and Interactions. <i>Frontiers in Aging Neuroscience</i> , 2019 , 11, 256	5.3	24
37	RNA protein granules modulate tau isoform expression and induce neuronal sprouting. <i>Journal of Biological Chemistry</i> , 2014 , 289, 16814-25	5.4	24
36	Altered phosphorylation but no neurodegeneration in a mouse model of tau hyperphosphorylation. <i>Neurobiology of Aging</i> , 2011 , 32, 991-1006	5.6	24
35	Systemic and network functions of the microtubule-associated protein tau: Implications for tau-based therapies. <i>Molecular and Cellular Neurosciences</i> , 2017 , 84, 132-141	4.8	21

34	Neurotrophins differentially regulate the survival and morphological complexity of human CNS model neurons. <i>Journal of Neurochemistry</i> , 1999 , 73, 139-46	6	21
33	DMSO modulates CNS function in a preclinical Alzheimer's disease model. <i>Neuropharmacology</i> , 2017 , 113, 434-444	5.5	18
32	A refined reaction-diffusion model of tau-microtubule dynamics and its application in FDAP analysis. <i>Biophysical Journal</i> , 2014 , 107, 2567-78	2.9	18
31	Identification of MINUS, a small polypeptide that functions as a microtubule nucleation suppressor. <i>EMBO Journal</i> , 1999 , 18, 565-77	13	18
30	Differential interactions of MAP2, tau and MAP5 during axogenesis in culture. <i>NeuroReport</i> , 1998 , 9, 1035-40	1.7	17
29	Contact with astroglial membranes induces axonal and dendritic growth of human CNS model neurons and affects the distribution of the growth-associated proteins MAP1B and GAP43. <i>Journal of Neuroscience Research</i> , 2002 , 67, 471-83	4.4	15
28	Triple mammalian/yeast/bacterial shuttle vectors for single and combined Lentivirus- and Sindbis virus-mediated infections of neurons. <i>Molecular Genetics and Genomics</i> , 2012 , 287, 313-24	3.1	14
27	Much More Than a Cytoskeletal Protein: Physiological and Pathological Functions of the Non-microtubule Binding Region of Tau. <i>Frontiers in Neurology</i> , 2020 , 11, 590059	4.1	12
26	Microcompartments in the Drosophila heart and the mammalian brain: general features and common principles. <i>Biological Chemistry</i> , 2013 , 394, 217-30	4.5	11
25	High-resolution imaging and evaluation of spines in organotypic hippocampal slice cultures. <i>Methods in Molecular Biology</i> , 2012 , 846, 277-93	1.4	11
24	Cognitive impairment and autistic-like behaviour in SAPAP4-deficient mice. <i>Translational Psychiatry</i> , 2019 , 9, 7	8.6	10
23	Early Effects of A β Oligomers on Dendritic Spine Dynamics and Arborization in Hippocampal Neurons. <i>Frontiers in Synaptic Neuroscience</i> , 2020 , 12, 2	3.5	10
22	Monitoring cytoskeletal dynamics in living neurons using fluorescence photoactivation. <i>Methods in Enzymology</i> , 2012 , 505, 3-21	1.7	10
21	Mechanisms of neurodegenerative diseases: insights from live cell imaging. <i>Journal of Neuroscience Research</i> , 2008 , 86, 504-11	4.4	9
20	Ribosomal localization of the mRNA in the 30S initiation complex as revealed by UV crosslinking. <i>FEBS Letters</i> , 1992 , 311, 199-202	3.8	9
19	Herpes simplex virus-mediated expression of the axonal protein tau in human model neurons (NT2-N cells). <i>Microscopy Research and Technique</i> , 2000 , 48, 85-96	2.8	8
18	The microtubule skeleton and the evolution of neuronal complexity in vertebrates. <i>Biological Chemistry</i> , 2019 , 400, 1163-1179	4.5	7
17	Alkylene-bridged viologen dendrimers: versatile cell delivery tools with biosensing properties. <i>Organic and Biomolecular Chemistry</i> , 2014 , 12, 9583-91	3.9	6

16	Live cell imaging of cytoskeletal dynamics in neurons using fluorescence photoactivation. <i>Biological Chemistry</i> , 2010 , 391, 639-43	4.5	6
15	Identification of Nucleoside Analogs as Inducers of Neuronal Differentiation in a Human Reporter Cell Line and Adult Stem Cells. <i>Chemical Biology and Drug Design</i> , 2015 , 86, 129-43	2.9	5
14	Live-cell imaging in the study of neurodegeneration. <i>International Review of Cell and Molecular Biology</i> , 2009 , 276, 49-103	6	5
13	Ribosome-mRNA contact sites at different stages of translation initiation as revealed by cross-linking of model mRNAs. <i>Biochimie</i> , 1991 , 73, 1543-9	4.6	4
12	Reconstruction and Morphometric Analysis of Hippocampal Neurons from Mice Expressing Fluorescent Proteins. <i>Neuromethods</i> , 2014 , 251-262	0.4	4
11	Chronic Presence of Oligomeric A β Differentially Modulates Spine Parameters in the Hippocampus and Cortex of Mice With Low APP Transgene Expression. <i>Frontiers in Synaptic Neuroscience</i> , 2020 , 12, 16	3.5	3
10	Machine Learning to Evaluate Neuron Density in Brain Sections. <i>Neuromethods</i> , 2014 , 263-291	0.4	2
9	Phosphorylation of native and truncated isoforms of protein tau by the double-stranded DNA-dependent protein kinase (DNA-PK) shows that the primary phosphorylation sites are localized between amino acid residues 212-231 of the longest tau. <i>IUBMB Life</i> , 1996 , 40, 21-31	4.7	1
8	Nanocores and Liquid Droplets: Single-Molecule Microscopy of Neuronal Stress Granule Components. <i>Neuromethods</i> , 2020 , 39-57	0.4	1
7	Evaluation and Elucidation of DNA-Containing Viologen Dendrimer Complex Formation. <i>European Journal of Organic Chemistry</i> , 2016 , 2016, 1897-1907	3.2	1
6	Monitoring and Quantification of the Dynamics of Stress Granule Components in Living Cells by Fluorescence Decay After Photoactivation.. <i>Methods in Molecular Biology</i> , 2022 , 2428, 243-259	1.4	1
5	Cytoskeletal mechanisms of neuronal morphogenesis. <i>Zoology</i> , 2001 , 104, 221-7	1.7	0
4	Purification of MINUS: A negative regulator of microtubule nucleation in a variety of organisms. <i>International Journal of Biological Macromolecules</i> , 2006 , 39, 15-22	7.9	
3	Funktionen des Zytoskeletts bei der Entwicklung von Nervenzellen. <i>E-Neuroforum</i> , 2001 , 7, 47-56		
2	Targeting microtubules in axonal re- and degeneration (Commentary on Li et al. ()). <i>European Journal of Neuroscience</i> , 2017 , 46, 1647-1649	3.5	
1	Shearlet Analysis of Confocal Laser-Scanning Microscopy Images to Extract Morphological Features of Neurons. <i>Neuromethods</i> , 2014 , 293-303	0.4	