Jean-Pierre Brion

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Glycogen synthase kinase-3 induces Alzheimer's disease-like phosphorylation of tau: Generation of paired helical filament epitopes and neuronal localisation of the kinase. Neuroscience Letters, 1992, 147, 58-62.	2.1	690
2	Alzheimer's Disease-Like Tau Neuropathology Leads to Memory Deficits and Loss of Functional Synapses in a Novel Mutated Tau Transgenic Mouse without Any Motor Deficits. American Journal of Pathology, 2006, 169, 599-616.	3.8	337
3	What is the evidence that tau pathology spreads through prion-like propagation?. Acta Neuropathologica Communications, 2017, 5, 99.	5.2	272
4	PART is part of Alzheimer disease. Acta Neuropathologica, 2015, 129, 749-756.	7.7	256
5	Developmental expression and localization of glycogen synthase kinase-3β in rat brain. Journal of Chemical Neuroanatomy, 1999, 16, 279-293.	2.1	217
6	Hallmarks of Alzheimer's Disease in Stem-Cell-Derived Human Neurons Transplanted into Mouse Brain. Neuron, 2017, 93, 1066-1081.e8.	8.1	204
7	Transgenic Expression of the Shortest Human Tau Affects Its Compartmentalization and Its Phosphorylation as in the Pretangle Stage of Alzheimer's Disease. American Journal of Pathology, 1999, 154, 255-270.	3.8	200
8	Clusterin regulates β-amyloid toxicity via Dickkopf-1-driven induction of the wnt–PCP–JNK pathway. Molecular Psychiatry, 2014, 19, 88-98.	7.9	197
9	Developmental Changes in Ï,, Phosphorylation: Fetal Ï,, Is Transiently Phosphorylated in a Manner Similar to Paired Helical Filament-Ï,, Characteristic of Alzheimer's Disease. Journal of Neurochemistry, 1993, 61, 2071-2080.	3.9	180
10	The active form of glycogen synthase kinase-3? is associated with granulovacuolar degeneration in neurons in Alzheimer's disease. Acta Neuropathologica, 2002, 103, 91-99.	7.7	171
11	Tyrosine 394 Is Phosphorylated in Alzheimer's Paired Helical Filament Tau and in Fetal Tau with c-Abl as the Candidate Tyrosine Kinase. Journal of Neuroscience, 2005, 25, 6584-6593.	3.6	168
12	Reduction of Acetylated α-Tubulin Immunoreactivity in Neurofibrillary Tangle-bearing Neurons in Alzheimer's Disease. Journal of Neuropathology and Experimental Neurology, 1996, 55, 964-972.	1.7	154
13	Abnormalities of Wnt signalling in schizophrenia – evidence for neurodevelopmental abnormality. NeuroReport, 1998, 9, 1379-1383.	1.2	150
14	Lithium reduces tau phosphorylation: effects in living cells and in neurons at therapeutic concentrations. Biological Psychiatry, 1999, 45, 995-1003.	1.3	145
15	Early Axonopathy Preceding Neurofibrillary Tangles in Mutant Tau Transgenic Mice. American Journal of Pathology, 2007, 171, 976-992.	3.8	122
16	Deletion of Irs2 reduces amyloid deposition and rescues behavioural deficits in APP transgenic mice. Biochemical and Biophysical Research Communications, 2009, 386, 257-262.	2.1	121
17	Lack of Tau Proteins Rescues Neuronal Cell Death and Decreases Amyloidogenic Processing of APP in APP/PS1 Mice. American Journal of Pathology, 2012, 181, 1928-1940.	3.8	116
18	Clathrin adaptor CALM/PICALM is associated with neurofibrillary tangles and is cleaved in Alzheimer's brains. Acta Neuropathologica, 2013, 125, 861-878.	7.7	107

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19	Tau phosphorylation in transgenic mice expressing glycogen synthase kinase-3β transgenes. NeuroReport, 1997, 8, 3251-3255.	1.2	103
20	Neurofibrillary tangles and tau phosphorylation. Biochemical Society Symposia, 2001, 67, 81-88.	2.7	103
21	Calcium-mediated Transient Phosphorylation of Tau and Amyloid Precursor Protein Followed by Intraneuronal Amyloid-Î ² Accumulation. Journal of Biological Chemistry, 2006, 281, 39907-39914.	3.4	99
22	Sites of phosphorylation in tau and factors affecting their regulation. Biochemical Society Symposia, 2001, 67, 73-80.	2.7	91
23	Lithium Treatment Arrests the Development of Neurofibrillary Tangles in Mutant Tau Transgenic Mice with Advanced Neurofibrillary Pathology. Journal of Alzheimer's Disease, 2010, 19, 705-719.	2.6	90
24	Re-induction of hyponatremia after rapid overcorrection of hyponatremia reduces mortality in rats. Kidney International, 2009, 76, 614-621.	5.2	88
25	Amyloid precursor protein controls cholesterol turnover needed for neuronal activity. EMBO Molecular Medicine, 2013, 5, 608-625.	6.9	88
26	Central role and mechanisms of β ell dysfunction and death in friedreich ataxia–associated diabetes. Annals of Neurology, 2012, 72, 971-982.	5.3	84
27	Characterisation of cytoskeletal abnormalities in mice transgenic for wild-type human tau and familial Alzheimer's disease mutants of APP and presenilin-1. Neurobiology of Disease, 2004, 15, 47-60.	4.4	82
28	Phrenic motor neuron degeneration compromises phrenic axonal circuitry and diaphragm activity in a unilateral cervical contusion model of spinal cord injury. Experimental Neurology, 2012, 235, 539-552.	4.1	82
29	Astrocytes Are an Early Target in Osmotic Demyelination Syndrome. Journal of the American Society of Nephrology: JASN, 2011, 22, 1834-1845.	6.1	81
30	Mint2/X11â€like colocalizes with the Alzheimer's disease amyloid precursor protein and is associated with neuritic plaques in Alzheimer's disease. European Journal of Neuroscience, 1999, 11, 1988-1994.	2.6	76
31	Age-dependent axonal transport and locomotor changes and tau hypophosphorylation in a "P301L―tau knockin mouse. Neurobiology of Aging, 2012, 33, 621.e1-621.e15.	3.1	75
32	Amyloid-β pathology enhances pathological fibrillary tau seeding induced by Alzheimer PHF in vivo. Acta Neuropathologica, 2019, 137, 397-412.	7.7	74
33	Astrocytic calcium/zinc binding protein S100A6 over expression in Alzheimer's disease and in PS1/APP transgenic mice models. Biochimica Et Biophysica Acta - Molecular Cell Research, 2004, 1742, 161-168.	4.1	72
34	Neuropathology of iatrogenic Creutzfeldt–Jakob disease and immunoassay of French cadaver-sourced growth hormone batches suggest possible transmission of tauopathy and long incubation periods for the transmission of Abeta pathology. Acta Neuropathologica, 2018, 135, 201-212.	7.7	71
35	Degeneration of Phrenic Motor Neurons Induces Long-Term Diaphragm Deficits following Mid-Cervical Spinal Contusion in Mice. Journal of Neurotrauma, 2012, 29, 2748-2760.	3.4	66
36	Level of PICALM, a key component of clathrin-mediated endocytosis, is correlated with levels of phosphotau and autophagy-related proteins and is associated with tau inclusions in AD, PSP and Pick disease. Neurobiology of Disease, 2016, 94, 32-43.	4.4	66

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37	Early Phrenic Motor Neuron Loss and Transient Respiratory Abnormalities after Unilateral Cervical Spinal Cord Contusion. Journal of Neurotrauma, 2013, 30, 1092-1099.	3.4	65
38	Neurofilament Monoclonal Antibodies RT97 and 8D8 Recognize Different Modified Epitopes in Paired Helical Filament-? in Alzheimer's Disease. Journal of Neurochemistry, 1993, 60, 1372-1382.	3.9	64
39	Rapamycin Ester Analog CCI-779/Temsirolimus Alleviates Tau Pathology and Improves Motor Deficit in Mutant Tau Transgenic Mice. Journal of Alzheimer's Disease, 2015, 44, 1145-1156.	2.6	64
40	Effects of aluminium chloride on cultured cells from rat brain hemispheres. Brain Research, 1988, 438, 67-76.	2.2	63
41	Accelerated Human Mutant Tau Aggregation by Knocking Out Murine Tau in a Transgenic Mouse Model. American Journal of Pathology, 2011, 178, 803-816.	3.8	63
42	Expression of tau mRNA and soluble tau isoforms in affected and non-affected brain areas in Alzheimer's disease. FEBS Letters, 2004, 576, 183-189.	2.8	61
43	Inositol trisphosphate 3-kinase B is increased in human Alzheimer brain and exacerbates mouse Alzheimer pathology. Brain, 2014, 137, 537-552.	7.6	61
44	Synaptophysin and chromogranin A immunoreactivities in senile plaques of Alzheimer's disease. Brain Research, 1991, 539, 143-150.	2.2	60
45	ALZHEIMER'S DISEASE AND TAU PROTEINS. Lancet, The, 1986, 328, 1098.	13.7	56
46	Overexpression of the Astrocyte Glutamate Transporter GLT1 Exacerbates Phrenic Motor Neuron Degeneration, Diaphragm Compromise, and Forelimb Motor Dysfunction following Cervical Contusion Spinal Cord Injury. Journal of Neuroscience, 2014, 34, 7622-7638.	3.6	56
47	Increased misfolding and truncation of tau in APP/PS1/tau transgenic mice compared to mutant tau mice. Neurobiology of Disease, 2014, 62, 100-112.	4.4	54
48	Bimodal modulation of tau protein phosphorylation and conformation by extracellular Zn2+ in human-tau transfected cells. Biochimica Et Biophysica Acta - Molecular Cell Research, 2009, 1793, 1058-1067.	4.1	52
49	Enhanced Signaling Downstream of Ribonucleic Acid-Activated Protein Kinase-Like Endoplasmic Reticulum Kinase Potentiates Lipotoxic Endoplasmic Reticulum Stress in Human Islets. Journal of Clinical Endocrinology and Metabolism, 2010, 95, 1442-1449.	3.6	52
50	High–Molecular-Weight Paired Helical Filaments from Alzheimer Brain Induces Seeding of Wild-Type Mouse Tau into an Argyrophilic 4R Tau Pathology inÂVivo. American Journal of Pathology, 2016, 186, 2709-2722.	3.8	51
51	Oxidative Stress Induces Dephosphorylation of Ï,, in Rat Brain Primary Neuronal Cultures. Journal of Neurochemistry, 1997, 68, 1590-1597.	3.9	49
52	Epigenetic control of aquaporin 1 expression by the amyloid precursor protein. FASEB Journal, 2009, 23, 4158-4167.	0.5	48
53	Neuropathological Abnormalities in Transgenic Mice Harbouring a Phosphorylation Mutant Neurofilament Transgene. Journal of Neurochemistry, 1998, 70, 492-500.	3.9	46
54	Lithium Chloride Increases the Production of Amyloid-Î ² Peptide Independently from Its Inhibition of Glycogen Synthase Kinase 3. Journal of Biological Chemistry, 2005, 280, 33220-33227.	3.4	43

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55	Tauopathy induced by low level expression of a human brain-derived tau fragment in mice is rescued by phenylbutyrate. Brain, 2016, 139, 2290-2306.	7.6	43
56	Osmotic Stress–Induced Defective Glial Proteostasis Contributes to Brain Demyelination after Hyponatremia Treatment. Journal of the American Society of Nephrology: JASN, 2017, 28, 1802-1813.	6.1	42
57	Current directions in tau research: Highlights from Tau 2020. Alzheimer's and Dementia, 2022, 18, 988-1007.	0.8	42
58	Multifaceted role of galectin-3 on human glioblastoma cell motility. Biochemical and Biophysical Research Communications, 2004, 325, 1393-1398.	2.1	40
59	Glycogen synthase kinase-3β and the p25 activator of cyclin dependent kinase 5 increase pausing of mitochondria in neurons. Neuroscience, 2010, 167, 1044-1056.	2.3	39
60	Increased tau phosphorylation but absence of formation of neurofibrillary tangles in mice double transgenic for human tau and Alzheimer mutant (M146L) presenilin-1. Neuroscience Letters, 2002, 318, 29-33.	2.1	37
61	Levels of kinesin light chain and dynein intermediate chain are reduced in the frontal cortex in Alzheimer's disease: implications for axoplasmic transport. Acta Neuropathologica, 2012, 123, 71-84.	7.7	36
62	Glial Cells Identified by Anti-?-Albumin (Anti-GFA) in Human Pineal Gland. Journal of Neurochemistry, 1982, 38, 863-865.	3.9	35
63	The function of the microtubule-associated protein tau is variably modulated by graded changes in glycogen synthase kinase-3β activity. FEBS Letters, 2000, 465, 34-38.	2.8	31
64	Immunological demonstration of tau protein in neurofibrillary tangles of Alzheimer's disease. Journal of Alzheimer's Disease, 2006, 9, 177-185.	2.6	31
65	Cortical cells reveal APP as a new player in the regulation of GABAergic neurotransmission. Scientific Reports, 2017, 7, 370.	3.3	31
66	Regional oligodendrocytopathy and astrocytopathy precede myelin loss and blood–brain barrier disruption in a murine model of osmotic demyelination syndrome. Glia, 2018, 66, 606-622.	4.9	29
67	The Long Term Adenoviral Expression of the Human Amyloid Precursor Protein Shows Different Secretase Activities in Rat Cortical Neurons and Astrocytes. Journal of Biological Chemistry, 1998, 273, 28931-28936.	3.4	28
68	Picalm reduction exacerbates tau pathology in a murine tauopathy model. Acta Neuropathologica, 2020, 139, 773-789.	7.7	27
69	Neurodegenerative changes including altered tau phosphorylation and neurofilament immunoreactivity in mice transgenic for the serine/threonine kinase mos. Neurobiology of Aging, 1996, 17, 235-241.	3.1	24
70	Minocycline Protects against Neurologic Complications of Rapid Correction of Hyponatremia. Journal of the American Society of Nephrology: JASN, 2010, 21, 2099-2108.	6.1	24
71	Phosphorylation of tau protein is not affected in mice lacking apolipoprotein E. NeuroReport, 1995, 6, 2381-2384.	1.2	23
72	Mislocalization of neuronal tau in the absence of tangle pathology in phosphomutant tau knockin mice. Neurobiology of Aging, 2016, 39, 1-18.	3.1	23

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73	Epigenetic Induction of EGR-1 Expression by the Amyloid Precursor Protein during Exposure to Novelty. PLoS ONE, 2013, 8, e74305.	2.5	22
74	Deletion of murine tau gene increases tau aggregation in a human mutant tau transgenic mouse model. Biochemical Society Transactions, 2010, 38, 1001-1005.	3.4	20
75	Alzheimer's Disease: Tau Pathology and Dysfunction of Endocytosis. Frontiers in Molecular Neuroscience, 2020, 13, 583755.	2.9	19
76	Vaccination with Sarkosyl Insoluble PHF-Tau Decrease Neurofibrillary Tangles Formation in Aged Tau Transgenic Mouse Model: A Pilot Study. Journal of Alzheimer's Disease, 2014, 40, S135-S145.	2.6	18
77	A neuronal aging pattern unique to humans and common chimpanzees. Brain Structure and Function, 2016, 221, 647-664.	2.3	18
78	Induction of Stearoyl-CoA 9-Desaturase 1 Protects Human Mesenchymal Stromal Cells Against Palmitic Acid-Induced Lipotoxicity and Inflammation. Frontiers in Endocrinology, 2019, 10, 726.	3.5	18
79	The pathology of the neuronal cytoskeleton in Alzheimer's disease. BBA - Proteins and Proteomics, 1992, 1160, 134-142.	2.1	17
80	Increase of adenomatous polyposis coli immunoreactivity is a marker of reactive astrocytes in Alzheimer's disease and in other pathological conditions. Acta Neuropathologica, 2001, 102, 1-10.	7.7	17
81	Interaction between a MAPT variant causing frontotemporal dementia and mutant APP affects axonal transport. Neurobiology of Aging, 2018, 68, 68-75.	3.1	17
82	Ultrastructural Analysis of Thalamus Damages in a Mouse Model of Osmotic-Induced Demyelination. Neurotoxicity Research, 2019, 36, 144-162.	2.7	17
83	Genetic ablation of tau in postnatal neurons rescues decreased adult hippocampal neurogenesis in a tauopathy model. Neurobiology of Disease, 2019, 127, 131-141.	4.4	17
84	Calcineurin (phosphatase 2B) is Present in Neurons Containing Neurofibrillary Tangles and in a Subset of Senile Plaques in Alzheimer's Disease. Experimental Neurology, 1995, 4, 13-21.	1.7	16
85	Sex-regulated gene dosage effect of PPARα on synaptic plasticity. Life Science Alliance, 2019, 2, e201800262.	2.8	16
86	Heterotopic brain tissue in the scalp. Journal of Plastic, Reconstructive and Aesthetic Surgery, 1995, 48, 332-334.	1.1	15
87	Amyloid precursor protein reduction enhances the formation of neurofibrillary tangles in a mutant tau transgenic mouse model. Neurobiology of Aging, 2017, 55, 202-212.	3.1	15
88	The lipid phosphatase Synaptojanin 1 undergoes a significant alteration in expression and solubility and is associated with brain lesions in Alzheimer's disease. Acta Neuropathologica Communications, 2020, 8, 79.	5.2	15
89	Identification of feline panleukopenia virus proteins expressed in Purkinje cell nuclei of cats with cerebellar hypoplasia. Veterinary Journal, 2013, 196, 381-387.	1.7	13
90	Cell cycle S phase markers are expressed in cerebral neuron nuclei of cats infected by the Feline Panleukopenia Virus. Cell Cycle, 2016, 15, 3482-3489.	2.6	13

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91	Intranuclear inclusions in the neurons of senescent rats. Acta Neuropathologica, 1982, 58, 107-110.	7.7	12
92	Adult neural precursor cells form connexin-dependent networks that improve their survival. NeuroReport, 2015, 26, 928-936.	1.2	12
93	Transmission and scanning electron-microscopic observations on tanycytes in the mediobasal hypothalamus and the median eminence of adrenalectomized rats. Cell and Tissue Research, 1982, 221, 643-55.	2.9	11
94	Isolation of cDNAs coding for epitopes shared by microtubule-associated proteins and neurofibrillary tangles in Alzheimer's disease. FEBS Letters, 1987, 226, 28-32.	2.8	11
95	A new monoclonal antibody against the anionic domain of the amyloid precursor protein of Alzheimer's disease. NeuroReport, 1993, 5, 289-292.	1.2	11
96	Expression of Vasoactive Intestinal Peptide and Related Receptors in Overcirculation-Induced Pulmonary Hypertension in Piglets. Pediatric Research, 2009, 66, 395-399.	2.3	10
97	Modulation of tau pathology in tau transgenic models. Biochemical Society Transactions, 2010, 38, 996-1000.	3.4	10
98	Motor Deficit in a Tauopathy Model Is Induced by Disturbances of Axonal Transport Leading to Dying-Back Degeneration and Denervation of Neuromuscular Junctions. American Journal of Pathology, 2015, 185, 2685-2697.	3.8	10
99	A 4R tauopathy develops without amyloid deposits in aged cat brains. Neurobiology of Aging, 2019, 81, 200-212.	3.1	10
100	EuroTau: towing scientists to tau without tautology. Acta Neuropathologica Communications, 2017, 5, 90.	5.2	8
101	Tau Pathology and Adult Hippocampal Neurogenesis: What Tau Mouse Models Tell us?. Frontiers in Neurology, 2021, 12, 610330.	2.4	8
102	Regulation of PPARα by APP in Alzheimer disease affects the pharmacological modulation of synaptic activity. JCI Insight, 2021, 6, .	5.0	8
103	Role of p73 in Alzheimer disease: lack of association in mouse models or in human cohorts. Molecular Neurodegeneration, 2013, 8, 10.	10.8	7
104	The osmotic demyelination syndrome: the resilience of thalamic neurons is verified with transmission electron microscopy. Ultrastructural Pathology, 2020, 44, 450-480.	0.9	6
105	Expression of transferrin receptor 1, proliferating cell nuclear antigen, p27Kip1 and calbindin in the fetal and neonatal feline cerebellar cortex. Veterinary Journal, 2013, 196, 388-393.	1.7	5
106	Subcellular structural plasticity caused by the absence of the fast Ca2+ buffer calbindin D-28k in recurrent collaterals of cerebellar Purkinje neurons. Frontiers in Cellular Neuroscience, 2014, 8, 364.	3.7	5
107	3D imaging in the postmortem human brain with CLARITY and CUBIC. Handbook of Clinical Neurology / Edited By P J Vinken and G W Bruyn, 2018, 150, 303-317.	1.8	5
108	de novo MAPT mutation G335A causes severe brain atrophy, 3R and 4R PHF-tau pathology and early onset frontotemporal dementia. Acta Neuropathologica Communications, 2020, 8, 94.	5.2	5

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109	Ultrastructural and biochemical basis of Alzheimer's disease. Reviews in Clinical Gerontology, 1991, 1, 17-28.	0.5	4
110	Mutant presenilin 1 proteins induce cell death and reduce tau-dependent processes outgrowth. Neuroscience Letters, 2003, 353, 226-230.	2.1	4
111	Intravenous Injection of PHF-Tau Proteins From Alzheimer Brain Exacerbates Neuroinflammation, Amyloid Beta, and Tau Pathologies in 5XFAD Transgenic Mice. Frontiers in Molecular Neuroscience, 2020, 13, 106.	2.9	4
112	Dysregulation of Phosphoinositide 5-Phosphatases and Phosphoinositides in Alzheimer's Disease. Frontiers in Neuroscience, 2021, 15, 614855.	2.8	4
113	Cellular Changes in Alzheimer's Disease. , 0, , 1073-1081.		2
114	A primary cilium in oligodendrocytes: a fine structure signal of repairs in thalamic Osmotic Demyelination Syndrome (ODS). Ultrastructural Pathology, 2021, 45, 128-157.	0.9	2
115	Heparin treatment increases 9-kb MAP2 mRNA levels in neuronal cell cultures. Neuroscience Letters, 1994, 168, 175-180.	2.1	0
116	Biological Models in Frontotemporal Dementias. Handbook of Clinical Neurology / Edited By P J Vinken and G W Bruyn, 2008, 89, 449-455.	1.8	0
117	Enhanced Signaling Downstream of Ribonucleic Acid-Dependent Protein Kinase-Like Kinase Potentiates Lipotoxic Endoplasmic Reticulum Stress in Human Islets. Molecular Endocrinology, 2010, 24, 470-470.	3.7	0
118	P4-004: ABNORMAL PROCESSING AND MISFOLDING OF TAU IS MODULATED BY ENDOGENOUS TAU AND MUTANT APP/PS1 BUT NOT BY ENDOGENOUS APP IN TAU TRANSGENIC MICE. , 2014, 10, P785-P785.		0