Robert B Petersen

List of Publications by Citations

78 papers	8,208 citations	48 h-index	90 g-index
130 ext. papers	8,842 ext. citations	6.8 avg, IF	4.92 L-index

#	Paper	IF	Citations
78	Oxidative damage is the earliest event in Alzheimer disease. *Journal of Neuropathology and Experimental Neurology*, **2001**, 60, 759-67	3.1	1363
77	Mitochondrial abnormalities in Alzheimer's disease. *Journal of Neuroscience*, **2001**, 21, 3017-23	6.6	962
76	Molecular basis of phenotypic variability in sporadic Creutzfeldt-Jakob disease. *Annals of Neurology*, **1996**, 39, 767-78	9.4	705
75	pH-dependent stability and conformation of the recombinant human prion protein PrP(90-231). *Journal of Biological Chemistry*, **1997**, 272, 27517-20	5.4	221
74	Molecular assessment of the potential transmissibilities of BSE and scrapie to humans. *Nature*, **1997**, 388, 285-8	50.4	221
73	Mitochondria: a therapeutic target in neurodegeneration. *Biochimica Et Biophysica Acta - Molecular Basis of Disease*, **2010**, 1802, 212-20	6.9	209
72	Chronic wasting disease of elk: transmissibility to humans examined by transgenic mouse models. *Journal of Neuroscience*, **2005**, 25, 7944-9	6.6	201
71	The Parkinson's disease-associated protein, leucine-rich repeat kinase 2 (LRRK2), is an authentic GTPase that stimulates kinase activity. *Experimental Cell Research*, **2007**, 313, 3658-70	4.2	170
70	Fatal familial insomnia and familial Creutzfeldt-Jakob disease: clinical, pathological and molecular features. *Brain Pathology*, **1995**, 5, 43-51	6	167
69	Familial mutations and the thermodynamic stability of the recombinant human prion protein. *Journal of Biological Chemistry*, **1998**, 273, 31048-52	5.4	162
68	Oxidative stress and redox-active iron in Alzheimer's disease. *Annals of the New York Academy of Sciences*, **2004**, 1012, 179-82	6.5	160
67	Regional distribution of protease-resistant prion protein in fatal familial insomnia. *Annals of Neurology*, **1995**, 38, 21-9	9.4	145
66	Increased levels of oxidative stress markers detected in the brains of mice devoid of prion protein. *Journal of Neurochemistry*, **2001**, 76, 565-72	6	141
65	Overexpression of heme oxygenase in neuronal cells, the possible interaction with Tau. *Journal of Biological Chemistry*, **2000**, 275, 5395-9	5.4	138
64	RNA metabolism: strategies for regulation in the heat shock response. *Trends in Genetics*, **1990**, 6, 223-7	8.5	134
63	Proteasomal degradation and N-terminal protease resistance of the codon 145 mutant prion protein. *Journal of Biological Chemistry*, **1999**, 274, 23396-404	5.4	133
62	Cell-surface prion protein interacts with glycosaminoglycans. *Biochemical Journal*, **2002**, 368, 81-90	3.8	121

61	Neuronal cell cycle re-entry mediates Alzheimer disease-type changes. *Biochimica Et Biophysica Acta - Molecular Basis of Disease*, **2007**, 1772, 467-72	6.9	111
60	Effect of the D178N mutation and the codon 129 polymorphism on the metabolism of the prion protein. *Journal of Biological Chemistry*, **1996**, 271, 12661-8	5.4	110
59	Evidence of DNA damage in Alzheimer disease: phosphorylation of histone H2AX in astrocytes. *Age*, **2008**, 30, 209-15		101
58	The Drosophila hsp70 message is rapidly degraded at normal temperatures and stabilized by heat shock. *Gene*, **1988**, 72, 161-8	3.8	97
57	Cell cycle re-entry mediated neurodegeneration and its treatment role in the pathogenesis of Alzheimer's disease. *Neurochemistry International*, **2009**, 54, 84-8	4.4	96
56	FLP-mediated DNA mobilization to specific target sites in Drosophila chromosomes. *Nucleic Acids Research*, **1997**, 25, 3665-71	20.1	96
55	Alzheimer disease: evidence for a central pathogenic role of iron-mediated reactive oxygen species. *Journal of Alzheimer's Disease*, **2004**, 6, 165-9	4.3	86
54	Prion disease: A loss of antioxidant function?. *Biochemical and Biophysical Research Communications* , **2000**, 275, 249-52	3.4	86
53	Molecular pathology of fatal familial insomnia. *Brain Pathology*, **1998**, 8, 539-48	6	84
52	Selective translation and degradation of heat-shock messenger RNAs in Drosophila. *Enzyme*, **1990**, 44, 147-66		84
51	The expression and potential function of cellular prion protein in human lymphocytes. *Cellular Immunology*, **2001**, 207, 49-58	4.4	83
50	Intercellular transfer of the cellular prion protein. *Journal of Biological Chemistry*, **2002**, 277, 47671-8	5.4	83
49	Signal transduction cascades associated with oxidative stress in Alzheimer's disease. *Journal of Alzheimer's Disease*, **2007**, 11, 143-52	4.3	79
48	Prion seeding activity and infectivity in skin samples from patients with sporadic Creutzfeldt-Jakob disease. *Science Translational Medicine*, **2017**, 9,	17.5	77
47	Prion protein aggregation reverted by low temperature in transfected cells carrying a prion protein gene mutation. *Journal of Biological Chemistry*, **1997**, 272, 28461-70	5.4	76
46	Adventiously-bound redox active iron and copper are at the center of oxidative damage in Alzheimer disease. *BioMetals*, **2003**, 16, 77-81	3.4	76
45	Prion protein (PrP) knock-out mice show altered iron metabolism: a functional role for PrP in iron uptake and transport. *PLoS ONE*, **2009**, 4, e6115	3.7	73
44	Amyloid-beta42 interacts mainly with insoluble prion protein in the Alzheimer brain. *Journal of Biological Chemistry*, **2011**, 286, 15095-105	5.4	67

43	Effect of the E200K mutation on prion protein metabolism. Comparative study of a cell model and human brain. *American Journal of Pathology*, **2000**, 157, 613-22	5.8	67
42	The neuronal expression of MYC causes a neurodegenerative phenotype in a novel transgenic mouse. *American Journal of Pathology*, **2009**, 174, 891-7	5.8	65
41	Abnormal eye movements in Creutzfeldt-Jakob disease. *Annals of Neurology*, **1993**, 34, 192-7	9.4	65
40	Oxidative stress and neuronal adaptation in Alzheimer disease: the role of SAPK pathways. *Antioxidants and Redox Signaling*, **2003**, 5, 571-6	8.4	60
39	Induction of HO-1 and NOS in doppel-expressing mice devoid of PrP: implications for doppel function. *Molecular and Cellular Neurosciences*, **2001**, 17, 768-75	4.8	58
38	Synthesis in vitro of a seven amino acid peptide encoded in the leader RNA of Rous sarcoma virus. *Journal of Molecular Biology*, **1986**, 190, 45-57	6.5	58
37	Normal cellular prion protein is preferentially expressed on subpopulations of murine hemopoietic cells. *Journal of Immunology*, **2001**, 166, 3733-42	5.3	55
36	Passage of chronic wasting disease prion into transgenic mice expressing Rocky Mountain elk (Cervus elaphus nelsoni) PrPC. *Journal of General Virology*, **2006**, 87, 3773-3780	4.9	55
35	Differential expression of cellular prion protein in mouse brain as detected with multiple anti-PrP monoclonal antibodies. *Brain Research*, **2001**, 896, 118-29	3.7	54
34	Aberrant expression of metabotropic glutamate receptor 2 in the vulnerable neurons of Alzheimer's disease. *Acta Neuropathologica*, **2004**, 107, 365-71	14.3	53
33	Prion protein glycosylation is sensitive to redox change. *Journal of Biological Chemistry*, **1999**, 274, 34846-50	5.4	51
32	Redox metals and oxidative abnormalities in human prion diseases. *Acta Neuropathologica*, **2005**, 110, 232-8	14.3	50
31	Impaired neutrophil function in 24p3 null mice contributes to enhanced susceptibility to bacterial infections. *Journal of Immunology*, **2013**, 190, 4692-706	5.3	48
30	Neuroprotective properties of Bcl-w in Alzheimer disease. *Journal of Neurochemistry*, **2004**, 89, 1233-40	6	46
29	A metabolic basis for Alzheimer disease. *Neurochemical Research*, **2003**, 28, 1549-52	4.6	45
28	Novel differences between two human prion strains revealed by two-dimensional gel electrophoresis. *Journal of Biological Chemistry*, **2001**, 276, 37284-8	5.4	45
27	Antigen-antibody dissociation in Alzheimer disease: a novel approach to diagnosis. *Journal of Neurochemistry*, **2008**, 106, 1350-6	6	43
26	Protein disulfide isomerase in Alzheimer disease. *Antioxidants and Redox Signaling*, **2000**, 2, 485-9	8.4	39

25	Expression and structural characterization of the recombinant human doppel protein. *Biochemistry*, **2000**, 39, 13575-83	3.2	35
24	The Thr183Ala Mutation, Not the Loss of the First Glycosylation Site, Alters the Physical Properties of the Prion Protein. *Journal of Alzheimer's Disease*, **2000**, 2, 27-35	4.3	33
23	Early preclinical detection of prions in the skin of prion-infected animals. *Nature Communications*, **2019**, 10, 247	17.4	31
22	Chronic wasting disease of elk and deer and Creutzfeldt-Jakob disease: comparative analysis of the scrapie prion protein. *Journal of Biological Chemistry*, **2006**, 281, 4199-206	5.4	30
21	Spontaneous mutations in the prion protein gene causing transmissible spongiform encephalopathy. *Annals of Neurology*, **2002**, 52, 355-9	9.4	28
20	Multigenerational maternal obesity increases the incidence of HCC in offspring via miR-27a-3p. *Journal of Hepatology*, **2020**, 73, 603-615	13.4	22
19	Recombinant human prion protein inhibits prion propagation in vitro. *Scientific Reports*, **2013**, 3, 2911	4.9	22
18	Ligand binding promotes prion protein aggregation--role of the octapeptide repeats. *FEBS Journal*, **2008**, 275, 5564-75	5.7	21
17	Altered cell-matrix associated ADAM proteins in Alzheimer disease. *Journal of Neuroscience Research*, **2000**, 59, 680-4	4.4	18
16	Will preventing protein aggregates live up to its promise as prophylaxis against neurodegenerative diseases?. *Brain Pathology*, **2003**, 13, 630-8	6	17
15	Characterization of the F198S prion protein mutation: enhanced glycosylation and defective refolding. *Journal of Alzheimer's Disease*, **2005**, 7, 159-71; discussion 173-80	4.3	17
14	Lmo4-resistin signaling contributes to adipose tissue-liver crosstalk upon weight cycling. *FASEB Journal*, **2020**, 34, 4732-4748	0.9	9
13	A novel mechanism of phenotypic heterogeneity demonstrated by the effect of a polymorphism on a pathogenic mutation in the PRNP (prion protein gene). *Molecular Neurobiology*, **1994**, 8, 99-103	6.2	8
12	A FAMILY WITH OCULOLEPTOMENINGEAL AMYLOIDOSIS AND DEMENTIA HAS A MUTATION IN THE TRANSTHYRETIN GENE. *Journal of Neuropathology and Experimental Neurology*, **1995**, 54, 413	3.1	7
11	Muscular G9a Regulates Muscle-Liver-Fat Axis by Musclin Under Overnutrition in Female Mice. *Diabetes*, **2020**, 69, 2642-2654	0.9	6
10	Bovine spongiform encephalopathy and aquaculture. *Journal of Alzheimer's Disease*, **2009**, 17, 277-9	4.3	5
9	In Vitro Seeding Activity of Glycoform-Deficient Prions from Variably Protease-Sensitive Prionopathy and Familial CJD Associated with PrP Mutation. *Molecular Neurobiology*, **2019**, 56, 5456-5469	6.2	5
8	T-Tau and P-Tau in Brain and Blood from Natural and Experimental Prion Diseases. *PLoS ONE*, **2015**, 10, e0143103	3.7	4

7	New topics in familial prion diseases. *Seminars in Virology*, **1996**, 7, 181-187		3
6	Influence of Mabs on PrP(Sc) formation using in vitro and cell-free systems. *PLoS ONE*, **2012**, 7, e41626	3.7	3
5	Characterization of Anchorless Human PrP With Q227X Stop Mutation Linked to Gerstmann-Str□ssler-Scheinker Syndrome In Vivo and In Vitro. *Molecular Neurobiology*, **2021**, 58, 21-33	6.2	3
4	Antemortem diagnosis of variant Creutzfeldt-Jakob disease. *Lancet, The*, **1999**, 353, 163-4	40	2
3	Quiescin-sulfhydryl oxidase inhibits prion formation. *Aging*, **2016**, 8, 3419-3429	5.6	2
2	Emerging physiological and pathological roles of MeCP2 in non-neurological systems. *Archives of Biochemistry and Biophysics*, **2021**, 700, 108768	4.1	1
1	You can take the genome out of the organism, but can you take the organism out of the environment?. *Journal of Alzheimer's Disease*, **2002**, 4, 167-8	4.3	