

Debbie McKenzie

List of Publications by Year in descending order

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Version: 2024-02-01

90
papers

4,406
citations

125106

35
h-index

129628

63
g-index

94
all docs

94
docs citations

94
times ranked

3766
citing authors

#	ARTICLE	IF	CITATIONS
1	Neural transcriptomic signature of chronic wasting disease in white-tailed deer. <i>BMC Genomics</i> , 2022, 23, 69.	1.2	5
2	Susceptibility of Beavers to Chronic Wasting Disease. <i>Biology</i> , 2022, 11, 667.	1.3	1
3	Cellular prion protein distribution in the vomeronasal organ, parotid, and scent glands of white-tailed deer and mule deer. <i>Prion</i> , 2022, 16, 40-57.	0.9	2
4	Mitochondrial DNA deletion mutations increase exponentially with age in human skeletal muscle. <i>Aging Clinical and Experimental Research</i> , 2021, 33, 1811-1820.	1.4	29
5	Skeletal muscle mitochondrial DNA copy number and mitochondrial DNA deletion mutation frequency as predictors of physical performance in older men and women. <i>GeroScience</i> , 2021, 43, 1253-1264.	2.1	16
6	White-tailed deer S96 prion protein does not support stable in vitro propagation of most common CWD strains. <i>Scientific Reports</i> , 2021, 11, 11193.	1.6	7
7	Asymmetric-flow field-flow fractionation of prions reveals a strain-specific continuum of quaternary structures with protease resistance developing at a hydrodynamic radius of 15 nm. <i>PLoS Pathogens</i> , 2021, 17, e1009703.	2.1	14
8	New and distinct chronic wasting disease strains associated with cervid polymorphism at codon 116 of the Prnp gene. <i>PLoS Pathogens</i> , 2021, 17, e1009795.	2.1	13
9	Chronic wasting disease: a cervid prion infection looming to spillover. <i>Veterinary Research</i> , 2021, 52, 115.	1.1	16
10	Metformin Treatment in Old Rats and Effects on Mitochondrial Integrity. <i>Rejuvenation Research</i> , 2021, 24, 434-440.	0.9	4
11	A General Mass Spectrometry-Based Method of Quantitating Prion Polymorphisms from Heterozygous Chronic Wasting Disease-Infected Cervids. <i>Analytical Chemistry</i> , 2020, 92, 1276-1284.	3.2	4
12	Prion protein lowering is a disease-modifying therapy across prion disease stages, strains and endpoints. <i>Nucleic Acids Research</i> , 2020, 48, 10615-10631.	6.5	69
13	Comment on: "Mitochondrial Mechanisms of Neuromuscular Junction Degeneration with Aging. <i>Cells</i> 2020, 9, 197" <i>Cells</i> , 2020, 9, 1796.	1.8	1
14	Chronic wasting disease (CWD) prion strains evolve via adaptive diversification of conformers in hosts expressing prion protein polymorphisms. <i>Journal of Biological Chemistry</i> , 2020, 295, 4985-5001.	1.6	28
15	Long-Term Incubation PrPCWD with Soils Affects Prion Recovery but Not Infectivity. <i>Pathogens</i> , 2020, 9, 311.	1.2	17
16	Predicting the spread-risk potential of chronic wasting disease to sympatric ungulate species. <i>Prion</i> , 2020, 14, 56-66.	0.9	18
17	Mitochondrial DNA alterations in aged macrophage migration inhibitory factor-knockout mice. <i>Mechanisms of Ageing and Development</i> , 2019, 182, 111126.	2.2	2
18	Prion protein polymorphisms associated with reduced CWD susceptibility limit peripheral PrPCWD deposition in orally infected white-tailed deer. <i>BMC Veterinary Research</i> , 2019, 15, 50.	0.7	35

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19	Long term rapamycin treatment improves mitochondrial DNA quality in aging mice. <i>Experimental Gerontology</i> , 2018, 106, 125-131.	1.2	22
20	Dual MicroRNA to Cellular Prion Protein Inhibits Propagation of Pathogenic Prion Protein in Cultured Cells. <i>Molecular Neurobiology</i> , 2018, 55, 2384-2396.	1.9	9
21	Soil humic acids degrade CWD prions and reduce infectivity. <i>PLoS Pathogens</i> , 2018, 14, e1007414.	2.1	27
22	14-3-3 and enolase abundances in the CSF of Prion diseased rats. <i>Prion</i> , 2018, 12, 253-260.	0.9	1
23	Digital PCR Quantitation of Muscle Mitochondrial DNA: Age, Fiber Type, and Mutation-Induced Changes. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2017, 72, 1327-1333.	1.7	21
24	Chronic Wasting Disease Prion Strain Emergence and Host Range Expansion. <i>Emerging Infectious Diseases</i> , 2017, 23, 1598-1600.	2.0	40
25	Destabilizing polymorphism in cervid prion protein hydrophobic core determines prion conformation and conversion efficiency. <i>PLoS Pathogens</i> , 2017, 13, e1006553.	2.1	29
26	Chronic Wasting Disease Prion Strain Emergence and Host Range Expansion. <i>Emerging Infectious Diseases</i> , 2017, 23, .	2.0	1
27	Toll-like receptor-mediated immune response inhibits prion propagation. <i>Glia</i> , 2016, 64, 937-951.	2.5	18
28	Latent mitochondrial <i>scp</i> DNA deletion mutations drive muscle fiber loss at old age. <i>Aging Cell</i> , 2016, 15, 1132-1139.	3.0	51
29	Deer Prion Proteins Modulate the Emergence and Adaptation of Chronic Wasting Disease Strains. <i>Journal of Virology</i> , 2015, 89, 12362-12373.	1.5	75
30	Transcriptomic responses to prion disease in rats. <i>BMC Genomics</i> , 2015, 16, 682.	1.2	7
31	Deposition pattern and subcellular distribution of disease-associated prion protein in cerebellar organotypic slice cultures infected with scrapie. <i>Frontiers in Neuroscience</i> , 2015, 9, 410.	1.4	10
32	The Standard Scrapie Cell Assay: Development, Utility and Prospects. <i>Viruses</i> , 2015, 7, 180-198.	1.5	11
33	Bile Acids Reduce Prion Conversion, Reduce Neuronal Loss, and Prolong Male Survival in Models of Prion Disease. <i>Journal of Virology</i> , 2015, 89, 7660-7672.	1.5	44
34	Apoptosis and necrosis mediate skeletal muscle fiber loss in age-induced mitochondrial enzymatic abnormalities. <i>Aging Cell</i> , 2015, 14, 1085-1093.	3.0	73
35	Prion Infectivity Plateaus and Conversion to Symptomatic Disease Originate from Falling Precursor Levels and Increased Levels of Oligomeric PrP ^{Sc} Species. <i>Journal of Virology</i> , 2015, 89, 12418-12426.	1.5	33
36	Potential role of soil properties in the spread of CWD in western Canada. <i>Prion</i> , 2014, 8, 92-99.	0.9	22

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37	Replication of prions in differentiated muscle cells. <i>Prion</i> , 2014, 8, 166-168.	0.9	3
38	Prion disease tempo determined by host-dependent substrate reduction. <i>Journal of Clinical Investigation</i> , 2014, 124, 847-858.	3.9	59
39	Low Copper and High Manganese Levels in Prion Protein Plaques. <i>Viruses</i> , 2013, 5, 654-662.	1.5	26
40	Infectious Prions Accumulate to High Levels in Non Proliferative C2C12 Myotubes. <i>PLoS Pathogens</i> , 2013, 9, e1003755.	2.1	21
41	Mitochondrial Biogenesis Drives a Vicious Cycle of Metabolic Insufficiency and Mitochondrial DNA Deletion Mutation Accumulation in Aged Rat Skeletal Muscle Fibers. <i>PLoS ONE</i> , 2013, 8, e59006.	1.1	20
42	Emerging prion disease drives host selection in a wildlife population. <i>Ecological Applications</i> , 2012, 22, 1050-1059.	1.8	64
43	Highly Efficient Amplification of Chronic Wasting Disease Agent by Protein Misfolding Cyclic Amplification with Beads (PMCAb). <i>PLoS ONE</i> , 2012, 7, e35383.	1.1	32
44	Establishment and characterization of <i>Prnp</i> knockdown neuroblastoma cells using dual microRNA-mediated RNA interference. <i>Prion</i> , 2011, 5, 93-102.	0.9	12
45	Meat and Bone Meal and Mineral Feed Additives May Increase the Risk of Oral Prion Disease Transmission. <i>Journal of Toxicology and Environmental Health - Part A: Current Issues</i> , 2011, 74, 161-166.	1.1	24
46	Down-Regulation of Shadoo in Prion Infections Traces a Pre-Clinical Event Inversely Related to PrPSc Accumulation. <i>PLoS Pathogens</i> , 2011, 7, e1002391.	2.1	34
47	Prion Protein Polymorphisms Affect Chronic Wasting Disease Progression. <i>PLoS ONE</i> , 2011, 6, e17450.	1.1	105
48	Transport of the Pathogenic Prion Protein through Soils. <i>Journal of Environmental Quality</i> , 2010, 39, 1145-1152.	1.0	31
49	Prion Strain Mutation Determined by Prion Protein Conformational Compatibility and Primary Structure. <i>Science</i> , 2010, 328, 1154-1158.	6.0	201
50	Pathogenic prion protein is degraded by a manganese oxide mineral found in soils. <i>Journal of General Virology</i> , 2009, 90, 275-280.	1.3	46
51	Ultraviolet-ozone treatment reduces levels of disease-associated prion protein and prion infectivity. <i>BMC Research Notes</i> , 2009, 2, 121.	0.6	18
52	Transport of the Pathogenic Prion Protein through Landfill Materials. <i>Environmental Science & Technology</i> , 2009, 43, 2022-2028.	4.6	28
53	Persistence of Pathogenic Prion Protein during Simulated Wastewater Treatment Processes. <i>Environmental Science & Technology</i> , 2008, 42, 5254-5259.	4.6	61
54	Sarcopenia Accelerates at Advanced Ages in Fisher 344xBrown Norway Rats. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2008, 63, 921-927.	1.7	70

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55	Oral Transmissibility of Prion Disease Is Enhanced by Binding to Soil Particles. <i>PLoS Pathogens</i> , 2007, 3, e93.	2.1	187
56	Fate of Prions in Soils. <i>Proceedings of the Water Environment Federation</i> , 2007, 2007, 7868-7877.	0.0	2
57	Accumulation of Mitochondrial DNA Deletion Mutations in Aged Muscle Fibers: Evidence for a Causal Role in Muscle Fiber Loss. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2007, 62, 235-245.	1.7	161
58	Adsorption of Pathogenic Prion Protein to Quartz Sand. <i>Environmental Science & Technology</i> , 2007, 41, 2324-2330.	4.6	54
59	Mitochondrial DNA Deletion Mutations Accumulate Intracellularly to Detrimental Levels in Aged Human Skeletal Muscle Fibers. <i>American Journal of Human Genetics</i> , 2006, 79, 469-480.	2.6	363
60	Potential Role of Soil in the Transmission of Prion Disease. <i>Reviews in Mineralogy and Geochemistry</i> , 2006, 64, 135-152.	2.2	43
61	Prions Adhere to Soil Minerals and Remain Infectious. <i>PLoS Pathogens</i> , 2006, 2, e32.	2.1	250
62	Prion protein polymorphisms in white-tailed deer influence susceptibility to chronic wasting disease. <i>Journal of General Virology</i> , 2006, 87, 2109-2114.	1.3	143
63	MtDNA point mutations are associated with deletion mutations in aged rat. <i>Experimental Gerontology</i> , 2005, 40, 209-218.	1.2	20
64	Molecular analyses of mtDNA deletion mutations in microdissected skeletal muscle fibers from aged rhesus monkeys. <i>Aging Cell</i> , 2004, 3, 319-326.	3.0	85
65	Labeling of the scrapie-associated prion protein in vitro and in vivo. <i>Neuroscience Letters</i> , 2004, 371, 176-180.	1.0	11
66	Mitochondrial DNA mutations as a fundamental mechanism in physiological declines associated with aging. <i>Aging Cell</i> , 2003, 2, 1-7.	3.0	78
67	Rebuttal to Jacobs: The mitochondrial theory of aging: alive and well. <i>Aging Cell</i> , 2003, 2, 9-10.	3.0	10
68	Identification of a putative calcium-binding protein as a dioxin-responsive gene in zebrafish and rainbow trout. <i>Aquatic Toxicology</i> , 2003, 63, 271-282.	1.9	14
69	PRION PROTEIN GENE HETEROGENEITY IN FREE-RANGING WHITE-TAILED DEER WITHIN THE CHRONIC WASTING DISEASE AFFECTED REGION OF WISCONSIN. <i>Journal of Wildlife Diseases</i> , 2003, 39, 576-581.	0.3	80
70	Mitochondrial abnormalities are more frequent in muscles undergoing sarcopenia. <i>Journal of Applied Physiology</i> , 2002, 92, 2617-2624.	1.2	191
71	Mitochondrial DNA deletion mutations. <i>FEBS Journal</i> , 2002, 269, 2010-2015.	0.2	113
72	Mitochondrial DNA Deletion Mutations and Sarcopenia. <i>Annals of the New York Academy of Sciences</i> , 2002, 959, 412-423.	1.8	75

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73	Adaptation and Selection of Prion Protein Strain Conformations following Interspecies Transmission of Transmissible Mink Encephalopathy. <i>Journal of Virology</i> , 2000, 74, 5542-5547.	1.5	132
74	Strain-specific propagation of PrPSc properties into baculovirus-expressed hamster PrPC. <i>Journal of General Virology</i> , 2000, 81, 2565-2571.	1.3	12
75	The Host Range of Chronic Wasting Disease Is Altered on Passage in Ferrets. <i>Virology</i> , 1998, 251, 297-301.	1.1	122
76	A molecular basis for transmissible spongiform encephalopathy agent strain differences. <i>Bulletin De L'Institut Pasteur</i> , 1998, 96, 35-47.	0.7	0
77	Reversibility of Scrapie Inactivation Is Enhanced by Copper. <i>Journal of Biological Chemistry</i> , 1998, 273, 25545-25547.	1.6	116
78	Transmissible mink encephalopathy. <i>Seminars in Virology</i> , 1996, 7, 201-206.	4.1	9
79	Transmissible Mink Encephalopathy Species Barrier Effect Between Ferret and Mink: PrP Gene and Protein Analysis. <i>Journal of General Virology</i> , 1994, 75, 2947-2953.	1.3	51
80	Multiple age-associated mitochondrial DNA deletions in skeletal muscle of mice. <i>Aging Clinical and Experimental Research</i> , 1994, 6, 193-200.	1.4	47
81	Persistence of Viral RNA in the Central Nervous System of Mice Inoculated with MHV-4. <i>Advances in Experimental Medicine and Biology</i> , 1994, 342, 327-332.	0.8	30
82	Amphotericin B delays both scrapie agent replication and PrP-res accumulation early in infection. <i>Journal of Virology</i> , 1994, 68, 7534-7536.	1.5	54
83	Lack of Glyconeogenesis in Pancreatic Islets: Expression of Gluconeogenic Enzyme Genes in Islets. <i>Hormone and Metabolic Research</i> , 1992, 24, 158-160.	0.7	73
84	Control of mouse U1a and U1b snRNA gene expression by differential transcription. <i>Nucleic Acids Research</i> , 1992, 20, 4247-4254.	6.5	14
85	Persistence and expression of <i>Microplitis demolitor</i> polydnavirus in <i>Pseudoplusia includens</i> . <i>Journal of General Virology</i> , 1992, 73, 1627-1635.	1.3	123
86	PRP gene variability in the us cattle population. <i>Animal Biotechnology</i> , 1992, 3, 309-315.	0.7	14
87	Golden hamster embryonic genome activation occurs at the two-cell stage: Correlation with major developmental changes. <i>Molecular Reproduction and Development</i> , 1992, 32, 229-235.	1.0	31
88	Novel effects of insulin secretagogues on capacitation of insulin release and survival of cultured pancreatic islets. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 1990, 259, E548-E554.	1.8	12
89	Tandem repeats of a specific alternating purine-pyrimidine DNA sequence adjacent to protamine genes in the rainbow trout that can exist in the Z form. <i>Biochemistry</i> , 1985, 24, 6268-6276.	1.2	8
90	Sequence homologtes in the protamine gene family of rainbow trout. <i>Nucleic Acids Research</i> , 1983, 11, 4907-4922.	6.5	46