Debbie McKenzie

List of Publications by Year
in descending order

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Version: 2024-02-01

90 papers	4,406 citations	109321 35 h-index	114465 63 g-index
94 all docs	94 docs citations	94 times ranked	3403 citing authors

#	Article	IF	Citations
1	Mitochondrial DNAâ€“Deletion Mutations Accumulate Intracellularly to Detrimental Levels in Aged Human Skeletal Muscle Fibers. American Journal of Human Genetics, 2006, 79, 469-480.	6.2	363
2	Prions Adhere to Soil Minerals and Remain Infectious. PLoS Pathogens, 2006, 2, e32.	4.7	250
3	Prion Strain Mutation Determined by Prion Protein Conformational Compatibility and Primary Structure. Science, 2010, 328, 1154-1158.	12.6	201
4	Mitochondrial abnormalities are more frequent in muscles undergoing sarcopenia. Journal of Applied Physiology, 2002, 92, 2617-2624.	2.5	191
5	Oral Transmissibility of Prion Disease Is Enhanced by Binding to Soil Particles. PLoS Pathogens, 2007, 3, e93.	4.7	187
6	Accumulation of Mitochondrial DNA Deletion Mutations in Aged Muscle Fibers: Evidence for a Causal Role in Muscle Fiber Loss. Journals of Gerontology - Series A Biological Sciences and Medical Sciences, 2007, 62, 235-245.	3.6	161
7	Prion protein polymorphisms in white-tailed deer influence susceptibility to chronic wasting disease. Journal of General Virology, 2006, 87, 2109-2114.	2.9	143
8	Adaptation and Selection of Prion Protein Strain Conformations following Interspecies Transmission of Transmissible Mink Encephalopathy. Journal of Virology, 2000, 74, 5542-5547.	3.4	132
9	Persistence and expression of Microplitis demolitor polydnavirus in Pseudoplusia includens. Journal of General Virology, 1992, 73, 1627-1635.	2.9	123
10	The Host Range of Chronic Wasting Disease Is Altered on Passage in Ferrets. Virology, 1998, 251, 297-301.	2.4	122
11	Reversibility of Scrapie Inactivation Is Enhanced by Copper. Journal of Biological Chemistry, 1998, 273, 25545-25547.	3.4	116
12	Mitochondrial DNA deletion mutations. FEBS Journal, 2002, 269, 2010-2015.	0.2	113
13	Prion Protein Polymorphisms Affect Chronic Wasting Disease Progression. PLoS ONE, 2011, 6, e17450.	2.5	105
14	Molecular analyses of mtDNA deletion mutations in microdissected skeletal muscle fibers from aged rhesus monkeys. Aging Cell, 2004, 3, 319-326.	6.7	85
15	PRION PROTEIN GENE HETEROGENEITY IN FREE-RANGING WHITE-TAILED DEER WITHIN THE CHRONIC WASTING DISEASE AFFECTED REGION OF WISCONSIN. Journal of Wildlife Diseases, 2003, 39, 576-581.	0.8	80
16	Mitochondrial DNA mutations as a fundamental mechanism in physiological declines associated with aging. Aging Cell, 2003, 2, 1-7.	6.7	78
17	Mitochondrial DNA Deletion Mutations and Sarcopenia. Annals of the New York Academy of Sciences, 2002, 959, 412-423.	3.8	75
18	Deer Prion Proteins Modulate the Emergence and Adaptation of Chronic Wasting Disease Strains. Journal of Virology, 2015, 89, 12362-12373.	3.4	75

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19	Lack of Glyconeogenesis in Pancreatic Islets: Expression of Gluconeogenic Enzyme Genes in Islets. Hormone and Metabolic Research, 1992, 24, 158-160.	1.5	73
20	Apoptosis and necrosis mediate skeletal muscle fiber loss in ageâ€induced mitochondrial enzymatic abnormalities. Aging Cell, 2015, 14, 1085-1093.	6.7	73
21	Sarcopenia Accelerates at Advanced Ages in Fisher 344xBrown Norway Rats. Journals of Gerontology - Series A Biological Sciences and Medical Sciences, 2008, 63, 921-927.	3.6	70
22	Prion protein lowering is a disease-modifying therapy across prion disease stages, strains and endpoints. Nucleic Acids Research, 2020, 48, 10615-10631.	14.5	69
23	Emerging prion disease drives host selection in a wildlife population. Ecological Applications, 2012, 22, 1050-1059.	3.8	64
24	Persistence of Pathogenic Prion Protein during Simulated Wastewater Treatment Processes. Environmental Science & Technology, 2008, 42, 5254-5259.	10.0	61
25	Prion disease tempo determined by host-dependent substrate reduction. Journal of Clinical Investigation, 2014, 124, 847-858.	8.2	59
26	Adsorption of Pathogenic Prion Protein to Quartz Sand. Environmental Science & Technology, 2007, 41, 2324-2330.	10.0	54
27	Amphotericin B delays both scrapie agent replication and PrP-res accumulation early in infection. Journal of Virology, 1994, 68, 7534-7536.	3.4	54
28	Transmissible Mink Encephalopathy Species Barrier Effect Between Ferret and Mink: PrP Gene and Protein Analysis. Journal of General Virology, 1994, 75, 2947-2953.	2.9	51
29	Latent mitochondrial <scp>DNA</scp> deletion mutations drive muscle fiber loss at old age. Aging Cell, 2016, 15, 1132-1139.	6.7	51
30	Multiple age-associated mitochondrial DNA deletions in skeletal muscle of mice. Aging Clinical and Experimental Research, 1994, 6, 193-200.	2.9	47
31	Sequence homologtes in the protamine gene family of rainbow trout. Nucleic Acids Research, 1983, 11, 4907-4922.	14.5	46
32	Pathogenic prion protein is degraded by a manganese oxide mineral found in soils. Journal of General Virology, 2009, 90, 275-280.	2.9	46
33	Bile Acids Reduce Prion Conversion, Reduce Neuronal Loss, and Prolong Male Survival in Models of Prion Disease. Journal of Virology, 2015, 89, 7660-7672.	3.4	44
34	Potential Role of Soil in the Transmission of Prion Disease. Reviews in Mineralogy and Geochemistry, 2006, 64, 135-152.	4.8	43
35	Chronic Wasting Disease Prion Strain Emergence and Host Range Expansion. Emerging Infectious Diseases, 2017, 23, 1598-1600.	4.3	40
36	Prion protein polymorphisms associated with reduced CWD susceptibility limit peripheral PrPCWD deposition in orally infected white-tailed deer. BMC Veterinary Research, 2019, 15, 50.	1.9	35

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37	Down-Regulation of Shadoo in Prion Infections Traces a Pre-Clinical Event Inversely Related to PrPSc Accumulation. PLoS Pathogens, 2011, 7, e1002391.	4.7	34
38	Prion Infectivity Plateaus and Conversion to Symptomatic Disease Originate from Falling Precursor Levels and Increased Levels of Oligomeric PrP ^{Sc} Species. Journal of Virology, 2015, 89, 12418-12426.	3.4	33
39	Highly Efficient Amplification of Chronic Wasting Disease Agent by Protein Misfolding Cyclic Amplification with Beads (PMCAb). PLoS ONE, 2012, 7, e35383.	2.5	32
40	Golden hamster embryonic genome activation occurs at the two-cell stage: Correlation with major developmental changes. Molecular Reproduction and Development, 1992, 32, 229-235.	2.0	31
41	Transport of the Pathogenic Prion Protein through Soils. Journal of Environmental Quality, 2010, 39, 1145-1152.	2.0	31
42	Persistence of Viral RNA in the Central Nervous System of Mice Inoculated with MHV-4. Advances in Experimental Medicine and Biology, 1994, 342, 327-332.	1.6	30
43	Destabilizing polymorphism in cervid prion protein hydrophobic core determines prion conformation and conversion efficiency. PLoS Pathogens, 2017, 13, e1006553.	4.7	29
44	Mitochondrial DNA deletion mutations increase exponentially with age in human skeletal muscle. Aging Clinical and Experimental Research, 2021, 33, 1811-1820.	2.9	29
45	Transport of the Pathogenic Prion Protein through Landfill Materials. Environmental Science & Technology, 2009, 43, 2022-2028.	10.0	28
46	Chronic wasting disease (CWD) prion strains evolve via adaptive diversification of conformers in hosts expressing prion protein polymorphisms. Journal of Biological Chemistry, 2020, 295, 4985-5001.	3.4	28
47	Soil humic acids degrade CWD prions and reduce infectivity. PLoS Pathogens, 2018, 14, e1007414.	4.7	27
48	Low Copper and High Manganese Levels in Prion Protein Plaques. Viruses, 2013, 5, 654-662.	3.3	26
49	Meat and Bone Meal and Mineral Feed Additives May Increase the Risk of Oral Prion Disease Transmission. Journal of Toxicology and Environmental Health - Part A: Current Issues, 2011, 74, 161-166.	2.3	24
50	Potential role of soil properties in the spread of CWD in western Canada. Prion, 2014, 8, 92-99.	1.8	22
51	Long term rapamycin treatment improves mitochondrial DNA quality in aging mice. Experimental Gerontology, 2018, 106, 125-131.	2.8	22
52	Infectious Prions Accumulate to High Levels in Non Proliferative C2C12 Myotubes. PLoS Pathogens, 2013, 9, e1003755.	4.7	21
53	Digital PCR Quantitation of Muscle Mitochondrial DNA: Age, Fiber Type, and Mutation-Induced Changes. Journals of Gerontology - Series A Biological Sciences and Medical Sciences, 2017, 72, 1327-1333.	3.6	21
54	MtDNA point mutations are associated with deletion mutations in aged rat. Experimental Gerontology, 2005, 40, 209-218.	2.8	20

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55	Mitochondrial Biogenesis Drives a Vicious Cycle of Metabolic Insufficiency and Mitochondrial DNA Deletion Mutation Accumulation in Aged Rat Skeletal Muscle Fibers. PLoS ONE, 2013, 8, e59006.	2.5	20
56	Ultraviolet-ozone treatment reduces levels of disease-associated prion protein and prion infectivity. BMC Research Notes, 2009, 2, 121.	1.4	18
57	Tollâ€like receptorâ€mediated immune response inhibits prion propagation. Glia, 2016, 64, 937-951.	4.9	18
58	Predicting the spread-risk potential of chronic wasting disease to sympatric ungulate species. Prion, 2020, 14, 56-66.	1.8	18
59	Long-Term Incubation PrPCWD with Soils Affects Prion Recovery but Not Infectivity. Pathogens, 2020, 9, 311.	2.8	17
60	Skeletal muscle mitochondrial DNA copy number and mitochondrial DNA deletion mutation frequency as predictors of physical performance in older men and women. GeroScience, 2021, 43, 1253-1264.	4.6	16
61	Chronic wasting disease: a cervid prion infection looming to spillover. Veterinary Research, 2021, 52, 115.	3.0	16
62	Control of mouse U1a and U1b snRNA gene expression by differential transcription. Nucleic Acids Research, 1992, 20, 4247-4254.	14.5	14
63	PRP gene variability in the us cattle population. Animal Biotechnology, 1992, 3, 309-315.	1.5	14
64	Identification of a putative calcium-binding protein as a dioxin-responsive gene in zebrafish and rainbow trout. Aquatic Toxicology, 2003, 63, 271-282.	4.0	14
65	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. PLoS Pathogens, 2021, 17, e1009703.	4.7	14
66	New and distinct chronic wasting disease strains associated with cervid polymorphism at codon 116 of the Prnp gene. PLoS Pathogens, 2021, 17, e1009795.	4.7	13
67	Novel effects of insulin secretagogues on capacitation of insulin release and survival of cultured pancreatic islets. American Journal of Physiology - Endocrinology and Metabolism, 1990, 259, E548-E554.	3.5	12
68	Establishment and characterization ofPrnpknockdown neuroblastoma cells using dual microRNA-mediated RNA interference. Prion, 2011, 5, 93-102.	1.8	12
69	Strain-specific propagation of PrPSc properties into baculovirus-expressed hamster PrPC. Journal of General Virology, 2000, 81, 2565-2571.	2.9	12
70	Labeling of the scrapie-associated prion protein in vitro and in vivo. Neuroscience Letters, 2004, 371, 176-180.	2.1	11
71	The Standard Scrapie Cell Assay: Development, Utility and Prospects. Viruses, 2015, 7, 180-198.	3.3	11
72	Rebuttal to Jacobs: The mitochondrial theory of aging: alive and well. Aging Cell, 2003, 2, 9-10.	6.7	10

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73	Deposition pattern and subcellular distribution of disease-associated prion protein in cerebellar organotypic slice cultures infected with scrapie. Frontiers in Neuroscience, 2015, 9, 410.	2.8	10
74	Transmissible mink encephalopathy. Seminars in Virology, 1996, 7, 201-206.	3.9	9
75	Dual MicroRNA to Cellular Prion Protein Inhibits Propagation of Pathogenic Prion Protein in Cultured Cells. Molecular Neurobiology, 2018, 55, 2384-2396.	4.0	9
76	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. Biochemistry, 1985, 24, 6268-6276.	2.5	8
77	Transcriptomic responses to prion disease in rats. BMC Genomics, 2015, 16, 682.	2.8	7
78	White-tailed deer S96 prion protein does not support stable in vitro propagation of most common CWD strains. Scientific Reports, 2021, 11, 11193.	3.3	7
79	Neural transcriptomic signature of chronic wasting disease in white-tailed deer. BMC Genomics, 2022, 23, 69.	2.8	5
80	A General Mass Spectrometry-Based Method of Quantitating Prion Polymorphisms from Heterozygous Chronic Wasting Disease-Infected Cervids. Analytical Chemistry, 2020, 92, 1276-1284.	6.5	4
81	Metformin Treatment in Old Rats and Effects on Mitochondrial Integrity. Rejuvenation Research, 2021, 24, 434-440.	1.8	4
82	Replication of prions in differentiated muscle cells. Prion, 2014, 8, 166-168.	1.8	3
83	Fate of Prions in Soils. Proceedings of the Water Environment Federation, 2007, 2007, 7868-7877.	0.0	2
84	Mitochondrial DNA alterations in aged macrophage migration inhibitory factor-knockout mice. Mechanisms of Ageing and Development, 2019, 182, 111126.	4.6	2
85	Cellular prion protein distribution in the vomeronasal organ, parotid, and scent glands of white-tailed deer and mule deer. Prion, 2022, 16, 40-57.	1.8	2
86	14-3-3 and enolase abundances in the CSF of Prion diseased rats. Prion, 2018, 12, 253-260.	1.8	1
87	Comment on: â€œMitochondrial Mechanisms of Neuromuscular Junction Degeneration with Aging. Cells 2020, 9, 197â€. Cells, 2020, 9, 1796.	4.1	1
88	Chronic Wasting Disease Prion Strain Emergence and Host Range Expansion. Emerging Infectious Diseases, 2017, 23, .	4.3	1
89	Susceptibility of Beavers to Chronic Wasting Disease. Biology, 2022, 11, 667.	2.8	1
90	A molecular basis for transmissible spongiform encephalopathy agent strain differences. Bulletin De L'Institut Pasteur, 1998, 96, 35-47.	0.6	0