

Holly M Brown-Borg

List of Publications by Year in descending order

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84
papers

4,943
citations

109264

35
h-index

95218

68
g-index

87
all docs

87
docs citations

87
times ranked

5555
citing authors

#	ARTICLE	IF	CITATIONS
1	Dwarf mice and the ageing process. <i>Nature</i> , 1996, 384, 33-33.	13.7	955
2	Interventions to Slow Aging in Humans: Are We Ready?. <i>Aging Cell</i> , 2015, 14, 497-510.	3.0	481
3	Life Extension in the Dwarf Mouse. <i>Current Topics in Developmental Biology</i> , 2004, 63, 189-225.	1.0	298
4	Assessment of spatial memory in mice. <i>Life Sciences</i> , 2010, 87, 521-536.	2.0	249
5	Epigenetic aging signatures in mice livers are slowed by dwarfism, calorie restriction and rapamycin treatment. <i>Genome Biology</i> , 2017, 18, 57.	3.8	249
6	Diverse interventions that extend mouse lifespan suppress shared age-associated epigenetic changes at critical gene regulatory regions. <i>Genome Biology</i> , 2017, 18, 58.	3.8	147
7	Mitochondrial localization of alpha-synuclein protein in alpha-synuclein overexpressing cells. <i>Neuroscience Letters</i> , 2008, 439, 125-128.	1.0	146
8	Antioxidative Mechanisms and Plasma Growth Hormone Levels: Potential Relationship in the Aging Process. <i>Endocrine</i> , 1999, 11, 41-48.	2.2	135
9	Effects of Growth Hormone and Insulin-Like Growth Factor-1 on Hepatocyte Antioxidative Enzymes. <i>Experimental Biology and Medicine</i> , 2002, 227, 94-104.	1.1	108
10	Peroxisome Proliferator-Activated Receptor α Coactivator 1 in Caloric Restriction and Other Models of Longevity. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2005, 60, 1494-1509.	1.7	93
11	Metallothionein-mediated neuroprotection in genetically engineered mouse models of Parkinson's disease. <i>Molecular Brain Research</i> , 2005, 134, 67-75.	2.5	89
12	Growth hormone administration to long-living dwarf mice alters multiple components of the antioxidative defense system. <i>Mechanisms of Ageing and Development</i> , 2003, 124, 1013-1024.	2.2	82
13	GH and IGF1: Roles in Energy Metabolism of Long-Living GH Mutant Mice. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2012, 67A, 652-660.	1.7	82
14	Methionine flux to transsulfuration is enhanced in the long living Ames dwarf mouse. <i>Mechanisms of Ageing and Development</i> , 2006, 127, 444-450.	2.2	81
15	The potential role of necroptosis in inflammaging and aging. <i>GeroScience</i> , 2019, 41, 795-811.	2.1	81
16	Mesenchymal stem cell treatment improves outcome of COVID-19 patients via multiple immunomodulatory mechanisms. <i>Cell Research</i> , 2021, 31, 1244-1262.	5.7	81
17	Assessment of the Primary Adrenal Cortical and Pancreatic Hormone Basal Levels in Relation to Plasma Glucose and Age in the Unstressed Ames Dwarf Mouse. <i>Experimental Biology and Medicine</i> , 1995, 210, 126-133.	1.1	79
18	Hormonal regulation of longevity in mammals. <i>Ageing Research Reviews</i> , 2007, 6, 28-45.	5.0	76

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19	Hormonal control of aging in rodents: The somatotrophic axis. <i>Molecular and Cellular Endocrinology</i> , 2009, 299, 64-71.	1.6	72
20	Altered methionine metabolism in long living Ames dwarf mice. <i>Experimental Gerontology</i> , 2003, 38, 491-498.	1.2	71
21	Cutting back on the essentials: Can manipulating intake of specific amino acids modulate health and lifespan?. <i>Ageing Research Reviews</i> , 2017, 39, 87-95.	5.0	65
22	Growth hormone alters methionine and glutathione metabolism in Ames dwarf mice. <i>Mechanisms of Ageing and Development</i> , 2005, 126, 389-398.	2.2	63
23	Mitochondrial oxidant generation and oxidative damage in Ames dwarf and GH transgenic mice. <i>Age</i> , 2001, 24, 85-96.	3.0	62
24	Therapeutic Efficacy of Selegiline in Neurodegenerative Disorders and Neurological Diseases. <i>Current Drug Targets</i> , 2006, 7, 1513-1529.	1.0	57
25	Peroxynitrite in the Pathogenesis of Parkinson's Disease and the Neuroprotective Role of Metallothioneins. <i>Methods in Enzymology</i> , 2005, 396, 276-298.	0.4	55
26	Long-living growth hormone receptor knockout mice: Potential mechanisms of altered stress resistance. <i>Experimental Gerontology</i> , 2009, 44, 10-19.	1.2	48
27	Growth hormone signaling is necessary for lifespan extension by dietary methionine. <i>Ageing Cell</i> , 2014, 13, 1019-1027.	3.0	47
28	Long-lived Ames dwarf mouse exhibits increased antioxidant defense in skeletal muscle. <i>Mechanisms of Ageing and Development</i> , 2004, 125, 269-281.	2.2	46
29	Expression of oxidative phosphorylation components in mitochondria of long-living Ames dwarf mice. <i>Age</i> , 2012, 34, 43-57.	3.0	44
30	Association between low birth weight and increased adrenocortical function in neonatal pigs. <i>Journal of Animal Science</i> , 1993, 71, 1010-1018.	0.2	40
31	Long-living Ames dwarf mouse hepatocytes readily undergo apoptosis. <i>Experimental Gerontology</i> , 2003, 38, 997-1008.	1.2	39
32	Constitutive Expression of Peroxisome Proliferator-Activated Receptor α -Regulated Genes in Dwarf Mice. <i>Molecular Pharmacology</i> , 2005, 67, 681-694.	1.0	39
33	Analysis of the heat shock response in mouse liver reveals transcriptional dependence on the nuclear receptor peroxisome proliferator-activated receptor α (PPAR α). <i>BMC Genomics</i> , 2010, 11, 16.	1.2	38
34	Expression of DNA Methyltransferases Is Influenced by Growth Hormone in the Long-Living Ames Dwarf Mouse In Vivo and In Vitro. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2014, 69, 923-933.	1.7	38
35	Hippocampus of Ames dwarf mice is resistant to β -amyloid-induced tau hyperphosphorylation and changes in apoptosis-regulatory protein levels. <i>Hippocampus</i> , 2008, 18, 239-244.	0.9	37
36	Impaired cardiac excitation-contraction coupling in ventricular myocytes from Ames dwarf mice with IGF-I deficiency. <i>Growth Hormone and IGF Research</i> , 2002, 12, 99-105.	0.5	34

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37	Regulation of phase I and phase II steroid metabolism enzymes by PPAR α activators. <i>Toxicology</i> , 2004, 204, 109-121.	2.0	30
38	Altered dietary methionine differentially impacts glutathione and methionine metabolism in long-living growth hormone-deficient Ames dwarf and wild-type mice. <i>Longevity & Healthspan</i> , 2014, 3, 10.	6.7	29
39	Spatial memory is enhanced in long-living Ames dwarf mice and maintained following kainic acid induced neurodegeneration. <i>Mechanisms of Ageing and Development</i> , 2010, 131, 422-435.	2.2	26
40	Increases in insulin-like growth factor-1 level and peroxidative damage after gestational ethanol exposure in rats. <i>Pharmacological Research</i> , 2003, 47, 341-347.	3.1	25
41	Hormonal regulation of aging and life span. <i>Trends in Endocrinology and Metabolism</i> , 2003, 14, 151-153.	3.1	25
42	Growth Hormone Alters the Glutathione S-Transferase and Mitochondrial Thioredoxin Systems in Long-Living Ames Dwarf Mice. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2014, 69, 1199-1211.	1.7	22
43	Probing Pedomorphy and Prolonged Lifespan in Naked Mole-Rats and Dwarf Mice. <i>Physiology</i> , 2020, 35, 96-111.	1.6	22
44	The Ames dwarf mutation attenuates Alzheimer's disease phenotype of APP/PS1 mice. <i>Neurobiology of Aging</i> , 2016, 40, 22-40.	1.5	21
45	Growth hormone and aging. <i>Age</i> , 2000, 23, 219-225.	3.0	20
46	PPAR α activators down-regulate CYP2C7, a retinoic acid and testosterone hydroxylase. <i>Toxicology</i> , 2004, 203, 41-48.	2.0	20
47	Ebselen effects on MPTP-induced neurotoxicity. <i>Brain Research</i> , 2006, 1118, 251-254.	1.1	19
48	Developmental aspects of prolactin receptor gene expression in fetal and neonatal mice. <i>European Journal of Endocrinology</i> , 1996, 134, 751-757.	1.9	18
49	Does Diet Have a Role in the Treatment of Alzheimer's Disease?. <i>Frontiers in Aging Neuroscience</i> , 2020, 12, 617071.	1.7	17
50	Role of Lipoamide Dehydrogenase and Metallothionein on 1-Methyl-4-phenyl-1,2,3,6-tetrahydropyridine-induced Neurotoxicity. <i>Neurochemical Research</i> , 2008, 33, 980-984.	1.6	16
51	The First International Mini-Symposium on Methionine Restriction and Lifespan. <i>Frontiers in Genetics</i> , 2014, 5, 122.	1.1	16
52	Far-field recordings of short latency auditory responses in the White Leghorn chick. <i>Hearing Research</i> , 1987, 27, 67-74.	0.9	13
53	Growth Hormone Alters Components of the Glutathione Metabolic Pathway in Ames Dwarf Mice. <i>Annals of the New York Academy of Sciences</i> , 2004, 1019, 317-320.	1.8	13
54	Metabolic adaptation of short-living growth hormone transgenic mice to methionine restriction and supplementation. <i>Annals of the New York Academy of Sciences</i> , 2018, 1418, 118-136.	1.8	13

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55	NMDA and kainate receptor expression, long-term potentiation, and neurogenesis in the hippocampus of long-lived Ames dwarf mice. <i>Age</i> , 2012, 34, 609-620.	3.0	12
56	Temporal trends in 6-minute walking distance for older Japanese adults between 1998 and 2017. <i>Journal of Sport and Health Science</i> , 2021, 10, 462-469.	3.3	12
57	Cardiac Cytochrome-c Oxidase Deficiency Occurs During Late Postnatal Development in Progeny of Copper-Deficient Rats. <i>Experimental Biology and Medicine</i> , 2006, 231, 172-180.	1.1	11
58	Effect of MPTP on Dopamine metabolism in Ames dwarf mice. <i>Neurochemical Research</i> , 2002, 27, 457-464.	1.6	10
59	Regulation of Proteome Maintenance Gene Expression by Activators of Peroxisome Proliferator-Activated Receptor α . <i>PPAR Research</i> , 2010, 2010, 1-14.	1.1	10
60	Metabolic adaptations to short-term every-other-day feeding in long-living Ames dwarf mice. <i>Experimental Gerontology</i> , 2013, 48, 905-919.	1.2	10
61	Effects of insulin-like growth factor 1 on glutathione S-transferases and thioredoxin in growth hormone receptor knockout mice. <i>Age</i> , 2014, 36, 9687.	3.0	10
62	Multifactorial Attenuation of the Murine Heat Shock Response With Age. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2020, 75, 1846-1852.	1.7	10
63	The hippocampus of Ames dwarf mice exhibits enhanced antioxidative defenses following kainic acid-induced oxidative stress. <i>Experimental Gerontology</i> , 2010, 45, 936-949.	1.2	9
64	Reduced growth hormone signaling and methionine restriction: interventions that improve metabolic health and extend life span. <i>Annals of the New York Academy of Sciences</i> , 2016, 1363, 40-49.	1.8	9
65	Effect of dopaminergic neurotoxin MPTP/MPP+ on coenzyme Q content. <i>Life Sciences</i> , 2008, 83, 92-95.	2.0	7
66	Disentangling High Fat, Low Carb, and Healthy Aging. <i>Cell Metabolism</i> , 2017, 26, 458-459.	7.2	6
67	Elevated metallothionein expression in long-lived species mediates the influence of cadmium accumulation on aging. <i>GeroScience</i> , 2021, 43, 1975-1993.	2.1	6
68	Mutations Affecting Mammalian Aging: GH and GHR vs IGF-1 and Insulin. <i>Frontiers in Genetics</i> , 2021, 12, 667355.	1.1	6
69	Dopamine Agonist 3-PPP Fails to Protect Against MPTP-Induced Toxicity. <i>Neurochemical Research</i> , 2004, 29, 379-384.	1.6	4
70	Augmentation of the heat shock axis during exceptional longevity in Ames dwarf mice. <i>GeroScience</i> , 2021, 43, 1921-1934.	2.1	4
71	Prolactin and growth hormone clearance in neonatal boars. <i>Journal of Animal Science</i> , 1993, 71, 2055-2060.	0.2	3
72	Aging and Life Span. , 2005, 567, 259-283.		3

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73	Nutrition in aging and disease: update on biological sciences. <i>Aging Health</i> , 2012, 8, 13-16.	0.3	3
74	Spatial delayed nonmatching-to-sample performances in long-living Ames dwarf mice. <i>Physiology and Behavior</i> , 2014, 123, 100-104.	1.0	3
75	The methyltransferase enzymes KMT2D, SETD1B, and ASH1L are key mediators of both metabolic and epigenetic changes during cellular senescence. <i>Molecular Biology of the Cell</i> , 2022, 33, mbcE20080523.	0.9	3
76	Acquisition of steady-state operant behavior in long-living Ames Dwarf mice. <i>Physiology and Behavior</i> , 2011, 104, 1048-1052.	1.0	2
77	Metabolic adventures in aging research. <i>Molecular and Cellular Endocrinology</i> , 2017, 455, 1-3.	1.6	1
78	Metallothionein levels and multimeric forms in delayed and premature aging mouse models. <i>FASEB Journal</i> , 2006, 20, A1086.	0.2	1
79	Growth hormone, not IGF-1 is the key longevity regulator in mammals. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2022, , .	1.7	1
80	A summary of the Proceedings of the Tenth International Symposium on the Neurobiology and Neuroendocrinology of Aging Bregenz, Austria, July 25-30, 2010. <i>Experimental Gerontology</i> , 2011, 46, 87-89.	1.2	0
81	A summary of the Proceedings of the Twelfth International Symposium on the Neurobiology and Neuroendocrinology of Aging, Bregenz, Austria July 27-August 1, 2014. <i>Experimental Gerontology</i> , 2015, 68, 1-2.	1.2	0
82	A summary of the Proceedings of the Fourteenth International Symposium on the Neurobiology and Neuroendocrinology of Aging, Bregenz, Austria July 15-20, 2018. <i>GeroScience</i> , 2020, 42, 1195-1198.	2.1	0
83	â€œA Glance Backâ€ at the Journals of Gerontology: Weâ€™ve Come a Long Way, Baby!. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2020, 75, 205-206.	1.7	0
84	Methionine Metabolism in Aging Regulation. <i>Innovation in Aging</i> , 2021, 5, 454-454.	0.0	0