Holly M Brown-Borg

List of Publications by Citations

79 papers	4,005 citations	32 h-index	62 g-index
87 ext. papers	4,458 ext. citations	6.6 avg, IF	5.46 L-index

#	Paper	IF	Citations
79	Dwarf mice and the ageing process. *Nature*, **1996**, 384, 33	50.4	794
78	Interventions to Slow Aging in Humans: Are We Ready?. *Aging Cell*, **2015**, 14, 497-510	9.9	373
77	Life extension in the dwarf mouse. *Current Topics in Developmental Biology*, **2004**, 63, 189-225	5.3	258
76	Assessment of spatial memory in mice. *Life Sciences*, **2010**, 87, 521-36	6.8	196
75	Epigenetic aging signatures in mice livers are slowed by dwarfism, calorie restriction and rapamycin treatment. *Genome Biology*, **2017**, 18, 57	18.3	176
74	Mitochondrial localization of alpha-synuclein protein in alpha-synuclein overexpressing cells. *Neuroscience Letters*, **2008**, 439, 125-8	3.3	128
73	Diverse interventions that extend mouse lifespan suppress shared age-associated epigenetic changes at critical gene regulatory regions. *Genome Biology*, **2017**, 18, 58	18.3	119
72	Antioxidative mechanisms and plasma growth hormone levels: potential relationship in the aging process. *Endocrine*, **1999**, 11, 41-8		108
71	Effects of growth hormone and insulin-like growth factor-1 on hepatocyte antioxidative enzymes. *Experimental Biology and Medicine*, **2002**, 227, 94-104	3.7	95
70	Peroxisome proliferator-activated receptor gamma coactivator 1 in caloric restriction and other models of longevity. *Journals of Gerontology - Series A Biological Sciences and Medical Sciences*, **2005**, 60, 1494-509	6.4	87
69	Metallothionein-mediated neuroprotection in genetically engineered mouse models of Parkinson's disease. *Molecular Brain Research*, **2005**, 134, 67-75		81
68	Growth hormone administration to long-living dwarf mice alters multiple components of the antioxidative defense system. *Mechanisms of Ageing and Development*, **2003**, 124, 1013-24	5.6	79
67	GH and IGF1: roles in energy metabolism of long-living GH mutant mice. *Journals of Gerontology - Series A Biological Sciences and Medical Sciences*, **2012**, 67, 652-60	6.4	74
66	Methionine flux to transsulfuration is enhanced in the long living Ames dwarf mouse. *Mechanisms of Ageing and Development*, **2006**, 127, 444-50	5.6	73
65	Hormonal regulation of longevity in mammals. *Ageing Research Reviews*, **2007**, 6, 28-45	12	70
64	Assessment of the primary adrenal cortical and pancreatic hormone basal levels in relation to plasma glucose and age in the unstressed Ames dwarf mouse. *Experimental Biology and Medicine*, **1995**, 210, 126-33	3.7	67
63	Altered methionine metabolism in long living Ames dwarf mice. *Experimental Gerontology*, **2003**, 38, 491-8	4.5	63

62	Hormonal control of aging in rodents: the somatotropic axis. *Molecular and Cellular Endocrinology*, **2009**, 299, 64-71	4.4	59
61	Growth hormone alters methionine and glutathione metabolism in Ames dwarf mice. *Mechanisms of Ageing and Development*, **2005**, 126, 389-98	5.6	59
60	Mitochondrial oxidant generation and oxidative damage in Ames dwarf and GH transgenic mice. *Journal of the American Aging Association*, **2001**, 24, 85-96		51
59	Cutting back on the essentials: Can manipulating intake of specific amino acids modulate health and lifespan?. *Ageing Research Reviews*, **2017**, 39, 87-95	12	48
58	Long-living growth hormone receptor knockout mice: potential mechanisms of altered stress resistance. *Experimental Gerontology*, **2009**, 44, 10-9	4.5	45
57	Peroxynitrite in the pathogenesis of Parkinson's disease and the neuroprotective role of metallothioneins. *Methods in Enzymology*, **2005**, 396, 276-98	1.7	45
56	Therapeutic efficacy of selegiline in neurodegenerative disorders and neurological diseases. *Current Drug Targets*, **2006**, 7, 1513-29	3	45
55	The potential role of necroptosis in inflammaging and aging. *GeroScience*, **2019**, 41, 795-811	8.9	41
54	Long-lived Ames dwarf mouse exhibits increased antioxidant defense in skeletal muscle. *Mechanisms of Ageing and Development*, **2004**, 125, 269-81	5.6	41
53	Expression of oxidative phosphorylation components in mitochondria of long-living Ames dwarf mice. *Age*, **2012**, 34, 43-57		40
52	Constitutive expression of peroxisome proliferator-activated receptor alpha-regulated genes in dwarf mice. *Molecular Pharmacology*, **2005**, 67, 681-94	4.3	38
51	Growth hormone signaling is necessary for lifespan extension by dietary methionine. *Aging Cell*, **2014**, 13, 1019-27	9.9	37
50	Association between low birth weight and increased adrenocortical function in neonatal pigs. *Journal of Animal Science*, **1993**, 71, 1010-8	0.7	37
49	Long-living Ames dwarf mouse hepatocytes readily undergo apoptosis. *Experimental Gerontology*, **2003**, 38, 997-1008	4.5	36
48	Hippocampus of Ames dwarf mice is resistant to beta-amyloid-induced tau hyperphosphorylation and changes in apoptosis-regulatory protein levels. *Hippocampus*, **2008**, 18, 239-44	3.5	32
47	Expression of DNA methyltransferases is influenced by growth hormone in the long-living Ames dwarf mouse in vivo and in vitro. *Journals of Gerontology - Series A Biological Sciences and Medical Sciences*, **2014**, 69, 923-33	6.4	29
46	Regulation of phase I and phase II steroid metabolism enzymes by PPAR alpha activators. *Toxicology*, **2004**, 204, 109-21	4.4	29
45	Impaired cardiac excitation-contraction coupling in ventricular myocytes from Ames dwarf mice with IGF-I deficiency. *Growth Hormone and IGF Research*, **2002**, 12, 99-105	2	28

44	Altered dietary methionine differentially impacts glutathione and methionine metabolism in long-living growth hormone-deficient Ames dwarf and wild-type mice. *Longevity & Healthspan*, **2014**, 3, 10		26
43	Analysis of the heat shock response in mouse liver reveals transcriptional dependence on the nuclear receptor peroxisome proliferator-activated receptor alpha (PPARalpha). *BMC Genomics*, **2010**, 11, 16	4.5	25
42	Hormonal regulation of aging and life span. *Trends in Endocrinology and Metabolism*, **2003**, 14, 151-3	8.8	23
41	Spatial memory is enhanced in long-living Ames dwarf mice and maintained following kainic acid induced neurodegeneration. *Mechanisms of Ageing and Development*, **2010**, 131, 422-35	5.6	22
40	Increases in insulin-like growth factor-1 level and peroxidative damage after gestational ethanol exposure in rats. *Pharmacological Research*, **2003**, 47, 341-7	10.2	22
39	PPARalpha activators down-regulate CYP2C7, a retinoic acid and testosterone hydroxylase. *Toxicology*, **2004**, 203, 41-8	4.4	19
38	Growth hormone alters the glutathione S-transferase and mitochondrial thioredoxin systems in long-living Ames dwarf mice. *Journals of Gerontology - Series A Biological Sciences and Medical Sciences*, **2014**, 69, 1199-211	6.4	18
37	Developmental aspects of prolactin receptor gene expression in fetal and neonatal mice. *European Journal of Endocrinology*, **1996**, 134, 751-7	6.5	18
36	Ebselen effects on MPTP-induced neurotoxicity. *Brain Research*, **2006**, 1118, 251-4	3.7	17
35	The Ames dwarf mutation attenuates Alzheimer□ disease phenotype of APP/PS1 mice. *Neurobiology of Aging*, **2016**, 40, 22-40	5.6	16
34	The first international mini-symposium on methionine restriction and lifespan. *Frontiers in Genetics*, **2014**, 5, 122	4.5	15
33	Probing Pedomorphy and Prolonged Lifespan in Naked Mole-Rats and Dwarf Mice. *Physiology*, **2020** , 35, 96-111	9.8	14
32	Growth hormone and aging. *Journal of the American Aging Association*, **2000**, 23, 219-25		14
31	Role of lipoamide dehydrogenase and metallothionein on 1-methyl-4-phenyl-1,2,3,6-tetrahydropyridine-induced neurotoxicity. *Neurochemical Research*, **2008**, 33, 980-4	4.6	13
30	Far-field recordings of short latency auditory responses in the White Leghorn chick. *Hearing Research*, **1987**, 27, 67-74	3.9	12
29	NMDA and kainate receptor expression, long-term potentiation, and neurogenesis in the hippocampus of long-lived Ames dwarf mice. *Age*, **2012**, 34, 609-20		10
28	Regulation of Proteome Maintenance Gene Expression by Activators of Peroxisome Proliferator-Activated Receptor □*PPAR Research*, **2010**, 2010, 727194	4.3	10
27	Mesenchymal stem cell treatment improves outcome of COVID-19 patients via multiple immunomodulatory mechanisms. *Cell Research*, **2021**, 31, 1244-1262	24.7	10

26	Metabolic adaptation of short-living growth hormone transgenic mice to methionine restriction and supplementation. *Annals of the New York Academy of Sciences*, **2018**, 1418, 118-136	6.5	9
25	The hippocampus of Ames dwarf mice exhibits enhanced antioxidative defenses following kainic acid-induced oxidative stress. *Experimental Gerontology*, **2010**, 45, 936-49	4.5	9
24	Growth hormone alters components of the glutathione metabolic pathway in Ames dwarf mice. *Annals of the New York Academy of Sciences*, **2004**, 1019, 317-20	6.5	9
23	Metabolic adaptations to short-term every-other-day feeding in long-living Ames dwarf mice. *Experimental Gerontology*, **2013**, 48, 905-19	4.5	8
22	Effect of MPTP on Dopamine metabolism in Ames dwarf mice. *Neurochemical Research*, **2002**, 27, 457-64	4.6	8
21	Reduced growth hormone signaling and methionine restriction: interventions that improve metabolic health and extend life span. *Annals of the New York Academy of Sciences*, **2016**, 1363, 40-9	6.5	8
20	Effects of insulin-like growth factor 1 on glutathione S-transferases and thioredoxin in growth hormone receptor knockout mice. *Age*, **2014**, 36, 9687		7
19	Cardiac cytochrome-c oxidase deficiency occurs during late postnatal development in progeny of copper-deficient rats. *Experimental Biology and Medicine*, **2006**, 231, 172-80	3.7	7
18	Does Diet Have a Role in the Treatment of Alzheimer's Disease?. *Frontiers in Aging Neuroscience*, **2020**, 12, 617071	5.3	5
17	Disentangling High Fat, Low Carb, and Healthy Aging. *Cell Metabolism*, **2017**, 26, 458-459	24.6	5
16	Temporal trends in 6-minute walking distance for older Japanese adults between 1998 and 2017. *Journal of Sport and Health Science*, **2021**, 10, 462-469	8.2	4
15	Effect of dopaminergic neurotoxin MPTP/MPP+ on coenzyme Q content. *Life Sciences*, **2008**, 83, 92-5	6.8	4
14	Dopamine agonist 3-PPP fails to protect against MPTP-induced toxicity. *Neurochemical Research*, **2004**, 29, 379-84	4.6	4
13	Multifactorial Attenuation of the Murine Heat Shock Response With Age. *Journals of Gerontology - Series A Biological Sciences and Medical Sciences*, **2020**, 75, 1846-1852	6.4	4
12	Spatial delayed nonmatching-to-sample performances in long-living Ames dwarf mice. *Physiology and Behavior*, **2014**, 123, 100-4	3.5	3
11	Aging and life span. *Advances in Experimental Medicine and Biology*, **2005**, 567, 259-83	3.6	3
10	Prolactin and growth hormone clearance in neonatal boars. *Journal of Animal Science*, **1993**, 71, 2055-60	0.7	3
9	Acquisition of steady-state operant behavior in long-living Ames Dwarf mice. *Physiology and Behavior*, **2011**, 104, 1048-52	3.5	2

8	Nutrition in aging and disease: update on biological sciences. *Aging Health*, **2012**, 8, 13-16		2
7	Mutations Affecting Mammalian Aging: GH and GHR vs IGF-1 and Insulin.. *Frontiers in Genetics*, **2021**, 12, 667355	4.5	1
6	Metallothionein levels and multimeric forms in delayed and premature aging mouse models. *FASEB Journal*, **2006**, 20, A1086	0.9	1
5	Elevated metallothionein expression in long-lived species mediates the influence of cadmium accumulation on aging. *GeroScience*, **2021**, 43, 1975-1993	8.9	1
4	Augmentation of the heat shock axis during exceptional longevity in Ames dwarf mice. *GeroScience*, **2021**, 43, 1921-1934	8.9	0
3	The methyltransferase enzymes, KMT2D, SETD1B, and ASH1L, are key mediators of both metabolic and epigenetic changes during cellular senescence.. *Molecular Biology of the Cell*, **2022**, mbcE20080523	3.5	0
2	"A Glance Back" at the Journals of Gerontology: We've Come a Long Way, Baby!. *Journals of Gerontology - Series A Biological Sciences and Medical Sciences*, **2020**, 75, 205-206	6.4	
1	Methionine Metabolism in Aging Regulation. *Innovation in Aging*, **2021**, 5, 456-456	0.1	