

# Holly M Brown-Borg

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	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> , <b>2022</b> , mbcE20080523	3.5	0
78	Temporal trends in 6-minute walking distance for older Japanese adults between 1998 and 2017. <i>Journal of Sport and Health Science</i> , <b>2021</b> , 10, 462-469	8.2	4
77	Methionine Metabolism in Aging Regulation. <i>Innovation in Aging</i> , <b>2021</b> , 5, 456-456	0.1	
76	Mutations Affecting Mammalian Aging: GH and GHR vs IGF-1 and Insulin.. <i>Frontiers in Genetics</i> , <b>2021</b> , 12, 667355	4.5	1
75	Mesenchymal stem cell treatment improves outcome of COVID-19 patients via multiple immunomodulatory mechanisms. <i>Cell Research</i> , <b>2021</b> , 31, 1244-1262	24.7	10
74	Augmentation of the heat shock axis during exceptional longevity in Ames dwarf mice. <i>GeroScience</i> , <b>2021</b> , 43, 1921-1934	8.9	0
73	Elevated metallothionein expression in long-lived species mediates the influence of cadmium accumulation on aging. <i>GeroScience</i> , <b>2021</b> , 43, 1975-1993	8.9	1
72	Does Diet Have a Role in the Treatment of Alzheimer's Disease?. <i>Frontiers in Aging Neuroscience</i> , <b>2020</b> , 12, 617071	5.3	5
71	Probing Pedomorphy and Prolonged Lifespan in Naked Mole-Rats and Dwarf Mice. <i>Physiology</i> , <b>2020</b> , 35, 96-111	9.8	14
70	"A Glance Back" at the Journals of Gerontology: We've Come a Long Way, Baby!. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , <b>2020</b> , 75, 205-206	6.4	
69	Multifactorial Attenuation of the Murine Heat Shock Response With Age. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , <b>2020</b> , 75, 1846-1852	6.4	4
68	The potential role of necroptosis in inflammaging and aging. <i>GeroScience</i> , <b>2019</b> , 41, 795-811	8.9	41
67	Metabolic adaptation of short-living growth hormone transgenic mice to methionine restriction and supplementation. <i>Annals of the New York Academy of Sciences</i> , <b>2018</b> , 1418, 118-136	6.5	9
66	Epigenetic aging signatures in mice livers are slowed by dwarfism, calorie restriction and rapamycin treatment. <i>Genome Biology</i> , <b>2017</b> , 18, 57	18.3	176
65	Disentangling High Fat, Low Carb, and Healthy Aging. <i>Cell Metabolism</i> , <b>2017</b> , 26, 458-459	24.6	5
64	Diverse interventions that extend mouse lifespan suppress shared age-associated epigenetic changes at critical gene regulatory regions. <i>Genome Biology</i> , <b>2017</b> , 18, 58	18.3	119
63	Cutting back on the essentials: Can manipulating intake of specific amino acids modulate health and lifespan?. <i>Ageing Research Reviews</i> , <b>2017</b> , 39, 87-95	12	48

62	The Ames dwarf mutation attenuates Alzheimer's disease phenotype of APP/PS1 mice. <i>Neurobiology of Aging</i> , <b>2016</b> , 40, 22-40	5.6	16
61	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> , <b>2016</b> , 1363, 40-9	6.5	8
60	Interventions to Slow Aging in Humans: Are We Ready?. <i>Aging Cell</i> , <b>2015</b> , 14, 497-510	9.9	373
59	Spatial delayed nonmatching-to-sample performances in long-living Ames dwarf mice. <i>Physiology and Behavior</i> , <b>2014</b> , 123, 100-4	3.5	3
58	Effects of insulin-like growth factor 1 on glutathione S-transferases and thioredoxin in growth hormone receptor knockout mice. <i>Age</i> , <b>2014</b> , 36, 9687		7
57	Altered dietary methionine differentially impacts glutathione and methionine metabolism in long-living growth hormone-deficient Ames dwarf and wild-type mice. <i>Longevity &amp; Healthspan</i> , <b>2014</b> , 3, 10		26
56	The first international mini-symposium on methionine restriction and lifespan. <i>Frontiers in Genetics</i> , <b>2014</b> , 5, 122	4.5	15
55	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> , <b>2014</b> , 69, 1199-211	6.4	18
54	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> , <b>2014</b> , 69, 923-33	6.4	29
53	Growth hormone signaling is necessary for lifespan extension by dietary methionine. <i>Aging Cell</i> , <b>2014</b> , 13, 1019-27	9.9	37
52	Metabolic adaptations to short-term every-other-day feeding in long-living Ames dwarf mice. <i>Experimental Gerontology</i> , <b>2013</b> , 48, 905-19	4.5	8
51	Expression of oxidative phosphorylation components in mitochondria of long-living Ames dwarf mice. <i>Age</i> , <b>2012</b> , 34, 43-57		40
50	NMDA and kainate receptor expression, long-term potentiation, and neurogenesis in the hippocampus of long-lived Ames dwarf mice. <i>Age</i> , <b>2012</b> , 34, 609-20		10
49	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> , <b>2012</b> , 67, 652-60	6.4	74
48	Nutrition in aging and disease: update on biological sciences. <i>Aging Health</i> , <b>2012</b> , 8, 13-16		2
47	Acquisition of steady-state operant behavior in long-living Ames Dwarf mice. <i>Physiology and Behavior</i> , <b>2011</b> , 104, 1048-52	3.5	2
46	Regulation of Proteome Maintenance Gene Expression by Activators of Peroxisome Proliferator-Activated Receptor $\alpha$ <i>PPAR Research</i> , <b>2010</b> , 2010, 727194	4.3	10
45	Assessment of spatial memory in mice. <i>Life Sciences</i> , <b>2010</b> , 87, 521-36	6.8	196

44	Spatial memory is enhanced in long-living Ames dwarf mice and maintained following kainic acid induced neurodegeneration. <i>Mechanisms of Ageing and Development</i> , <b>2010</b> , 131, 422-35	5.6	22
43	Analysis of the heat shock response in mouse liver reveals transcriptional dependence on the nuclear receptor peroxisome proliferator-activated receptor alpha (PPARalpha). <i>BMC Genomics</i> , <b>2010</b> , 11, 16	4.5	25
42	The hippocampus of Ames dwarf mice exhibits enhanced antioxidative defenses following kainic acid-induced oxidative stress. <i>Experimental Gerontology</i> , <b>2010</b> , 45, 936-49	4.5	9
41	Long-living growth hormone receptor knockout mice: potential mechanisms of altered stress resistance. <i>Experimental Gerontology</i> , <b>2009</b> , 44, 10-9	4.5	45
40	Hormonal control of aging in rodents: the somatotrophic axis. <i>Molecular and Cellular Endocrinology</i> , <b>2009</b> , 299, 64-71	4.4	59
39	Effect of dopaminergic neurotoxin MPTP/MPP+ on coenzyme Q content. <i>Life Sciences</i> , <b>2008</b> , 83, 92-5	6.8	4
38	Mitochondrial localization of alpha-synuclein protein in alpha-synuclein overexpressing cells. <i>Neuroscience Letters</i> , <b>2008</b> , 439, 125-8	3.3	128
37	Role of lipoamide dehydrogenase and metallothionein on 1-methyl-4-phenyl-1,2,3,6-tetrahydropyridine-induced neurotoxicity. <i>Neurochemical Research</i> , <b>2008</b> , 33, 980-4	4.6	13
36	Hippocampus of Ames dwarf mice is resistant to beta-amyloid-induced tau hyperphosphorylation and changes in apoptosis-regulatory protein levels. <i>Hippocampus</i> , <b>2008</b> , 18, 239-44	3.5	32
35	Hormonal regulation of longevity in mammals. <i>Ageing Research Reviews</i> , <b>2007</b> , 6, 28-45	12	70
34	Ebselen effects on MPTP-induced neurotoxicity. <i>Brain Research</i> , <b>2006</b> , 1118, 251-4	3.7	17
33	Methionine flux to transsulfuration is enhanced in the long living Ames dwarf mouse. <i>Mechanisms of Ageing and Development</i> , <b>2006</b> , 127, 444-50	5.6	73
32	Cardiac cytochrome-c oxidase deficiency occurs during late postnatal development in progeny of copper-deficient rats. <i>Experimental Biology and Medicine</i> , <b>2006</b> , 231, 172-80	3.7	7
31	Therapeutic efficacy of selegiline in neurodegenerative disorders and neurological diseases. <i>Current Drug Targets</i> , <b>2006</b> , 7, 1513-29	3	45
30	Metallothionein levels and multimeric forms in delayed and premature aging mouse models. <i>FASEB Journal</i> , <b>2006</b> , 20, A1086	0.9	1
29	Metallothionein-mediated neuroprotection in genetically engineered mouse models of Parkinson's disease. <i>Molecular Brain Research</i> , <b>2005</b> , 134, 67-75		81
28	Growth hormone alters methionine and glutathione metabolism in Ames dwarf mice. <i>Mechanisms of Ageing and Development</i> , <b>2005</b> , 126, 389-98	5.6	59
27	Constitutive expression of peroxisome proliferator-activated receptor alpha-regulated genes in dwarf mice. <i>Molecular Pharmacology</i> , <b>2005</b> , 67, 681-94	4.3	38

26	Peroxynitrite in the pathogenesis of Parkinson's disease and the neuroprotective role of metallothioneins. <i>Methods in Enzymology</i> , <b>2005</b> , 396, 276-98	1.7	45
25	Aging and life span. <i>Advances in Experimental Medicine and Biology</i> , <b>2005</b> , 567, 259-83	3.6	3
24	Peroxisome proliferator-activated receptor gamma coactivator 1 in caloric restriction and other models of longevity. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , <b>2005</b> , 60, 1494-509	6.4	87
23	Long-lived Ames dwarf mouse exhibits increased antioxidant defense in skeletal muscle. <i>Mechanisms of Ageing and Development</i> , <b>2004</b> , 125, 269-81	5.6	41
22	Dopamine agonist 3-PPP fails to protect against MPTP-induced toxicity. <i>Neurochemical Research</i> , <b>2004</b> , 29, 379-84	4.6	4
21	Growth hormone alters components of the glutathione metabolic pathway in Ames dwarf mice. <i>Annals of the New York Academy of Sciences</i> , <b>2004</b> , 1019, 317-20	6.5	9
20	PPARalpha activators down-regulate CYP2C7, a retinoic acid and testosterone hydroxylase. <i>Toxicology</i> , <b>2004</b> , 203, 41-8	4.4	19
19	Regulation of phase I and phase II steroid metabolism enzymes by PPAR alpha activators. <i>Toxicology</i> , <b>2004</b> , 204, 109-21	4.4	29
18	Life extension in the dwarf mouse. <i>Current Topics in Developmental Biology</i> , <b>2004</b> , 63, 189-225	5.3	258
17	Altered methionine metabolism in long living Ames dwarf mice. <i>Experimental Gerontology</i> , <b>2003</b> , 38, 491-8	4.5	63
16	Long-living Ames dwarf mouse hepatocytes readily undergo apoptosis. <i>Experimental Gerontology</i> , <b>2003</b> , 38, 997-1008	4.5	36
15	Growth hormone administration to long-living dwarf mice alters multiple components of the antioxidative defense system. <i>Mechanisms of Ageing and Development</i> , <b>2003</b> , 124, 1013-24	5.6	79
14	Increases in insulin-like growth factor-1 level and peroxidative damage after gestational ethanol exposure in rats. <i>Pharmacological Research</i> , <b>2003</b> , 47, 341-7	10.2	22
13	Hormonal regulation of aging and life span. <i>Trends in Endocrinology and Metabolism</i> , <b>2003</b> , 14, 151-3	8.8	23
12	Effect of MPTP on Dopamine metabolism in Ames dwarf mice. <i>Neurochemical Research</i> , <b>2002</b> , 27, 457-64	4.6	8
11	Effects of growth hormone and insulin-like growth factor-1 on hepatocyte antioxidative enzymes. <i>Experimental Biology and Medicine</i> , <b>2002</b> , 227, 94-104	3.7	95
10	Impaired cardiac excitation-contraction coupling in ventricular myocytes from Ames dwarf mice with IGF-I deficiency. <i>Growth Hormone and IGF Research</i> , <b>2002</b> , 12, 99-105	2	28
9	Mitochondrial oxidant generation and oxidative damage in Ames dwarf and GH transgenic mice. <i>Journal of the American Aging Association</i> , <b>2001</b> , 24, 85-96		51

8	Growth hormone and aging. <i>Journal of the American Aging Association</i> , <b>2000</b> , 23, 219-25		14
7	Antioxidative mechanisms and plasma growth hormone levels: potential relationship in the aging process. <i>Endocrine</i> , <b>1999</b> , 11, 41-8		108
6	Dwarf mice and the ageing process. <i>Nature</i> , <b>1996</b> , 384, 33	50.4	794
5	Developmental aspects of prolactin receptor gene expression in fetal and neonatal mice. <i>European Journal of Endocrinology</i> , <b>1996</b> , 134, 751-7	6.5	18
4	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> , <b>1995</b> , 210, 126-33	3.7	67
3	Association between low birth weight and increased adrenocortical function in neonatal pigs. <i>Journal of Animal Science</i> , <b>1993</b> , 71, 1010-8	0.7	37
2	Prolactin and growth hormone clearance in neonatal boars. <i>Journal of Animal Science</i> , <b>1993</b> , 71, 2055-60	0.7	3
1	Far-field recordings of short latency auditory responses in the White Leghorn chick. <i>Hearing Research</i> , <b>1987</b> , 27, 67-74	3.9	12