Ricki J Colman

List of Publications by Citations

104 papers	6,102 citations	37 h-index	77 g-index
109 ext. papers	6,938 ext. citations	6.1 avg, IF	5.6 L-index

#	Paper	IF	Citations
104	Caloric restriction delays disease onset and mortality in rhesus monkeys. *Science*, **2009**, 325, 201-4	33.3	1708
103	Caloric restriction reduces age-related and all-cause mortality in rhesus monkeys. *Nature Communications*, **2014**, 5, 3557	17.4	465
102	Caloric restriction improves health and survival of rhesus monkeys. *Nature Communications*, **2017**, 8, 14063	17.4	424
101	Aspects of common marmoset basic biology and life history important for biomedical research. *Comparative Medicine*, **2003**, 53, 339-50	1.6	247
100	Insights into the development of polycystic ovary syndrome (PCOS) from studies of prenatally androgenized female rhesus monkeys. *Trends in Endocrinology and Metabolism*, **1998**, 9, 62-7	8.8	170
99	Dietary restriction and aging in rhesus monkeys: the University of Wisconsin study. *Experimental Gerontology*, **2000**, 35, 1131-49	4.5	168
98	Progressive arthropathy in mice with a targeted disruption of the Mop3/Bmal-1 locus. *Genesis*, **2005**, 41, 122-32	1.9	158
97	Caloric restriction delays age-related methylation drift. *Nature Communications*, **2017**, 8, 539	17.4	146
96	Attenuation of sarcopenia by dietary restriction in rhesus monkeys. *Journals of Gerontology - Series A Biological Sciences and Medical Sciences*, **2008**, 63, 556-9	6.4	112
95	Energy expenditure of rhesus monkeys subjected to 11 years of dietary restriction. *Journal of Clinical Endocrinology and Metabolism*, **2003**, 88, 16-23	5.6	107
94	Increased adiposity in female rhesus monkeys exposed to androgen excess during early gestation. *Obesity*, **2003**, 11, 279-86		99
93	Skeletal effects of aging in male rhesus monkeys. *Bone*, **1999**, 24, 17-23	4.7	79
92	SAT-597 Hypothalamic ESR1 Gene Knockdown Elicits Intermittent Decrement in Postprandial Energy Expenditure Associated with Obesity Onset in Female Rhesus Monkeys. *Journal of the Endocrine Society*, **2020**, 4,	0.4	78
91	Insulin resistance and impaired insulin secretion in prenatally androgenized male rhesus monkeys. *Journal of Clinical Endocrinology and Metabolism*, **2004**, 89, 6218-23	5.6	75
90	Familial aggregation of endometriosis in a large pedigree of rhesus macaques. *Human Reproduction*, **2004**, 19, 448-55	5.7	75
89	Caloric restriction delays aging-induced cellular phenotypes in rhesus monkey skeletal muscle. *Experimental Gerontology*, **2011**, 46, 23-9	4.5	73
88	Dietary restriction and glucose regulation in aging rhesus monkeys: a follow-up report at 8.5 yr. *American Journal of Physiology - Endocrinology and Metabolism*, **2001**, 281, E757-65	6	73

87	Syndecan-1 is required to maintain intradermal fat and prevent cold stress. *PLoS Genetics*, **2014**, 10, e1004514	8	68
86	Metabolic shifts due to long-term caloric restriction revealed in nonhuman primates. *Experimental Gerontology*, **2009**, 44, 356-62	4.5	64
85	The effect of advancing age on bone mineral content of female rhesus monkeys. *Bone*, **1996**, 19, 485-92	4.7	62
84	Effects of caloric restriction on cardiovascular aging in non-human primates and humans. *Clinics in Geriatric Medicine*, **2009**, 25, 733-43, ix-x	3.8	61
83	A shift in energy metabolism anticipates the onset of sarcopenia in rhesus monkeys. *Aging Cell*, **2013**, 12, 672-81	9.9	57
82	Skeletal effects of aging and menopausal status in female rhesus macaques. *Journal of Clinical Endocrinology and Metabolism*, **1999**, 84, 4144-8	5.6	54
81	Early-to-mid gestation fetal testosterone increases right hand 2D:4D finger length ratio in polycystic ovary syndrome-like monkeys. *PLoS ONE*, **2012**, 7, e42372	3.7	53
80	Nonhuman primate calorie restriction. *Antioxidants and Redox Signaling*, **2011**, 14, 229-39	8.4	51
79	Non-human primates as a model for aging. *Biochimica Et Biophysica Acta - Molecular Basis of Disease* , **2018**, 1864, 2733-2741	6.9	49
78	Circulating factors induced by caloric restriction in the nonhuman primate Macaca mulatta activate angiogenic processes in endothelial cells. *Journals of Gerontology - Series A Biological Sciences and Medical Sciences*, **2013**, 68, 235-49	6.4	47
77	Age-related changes in neural volume and microstructure associated with interleukin-6 are ameliorated by a calorie-restricted diet in old rhesus monkeys. *NeuroImage*, **2010**, 51, 987-94	7.9	46
76	Long-term calorie restriction decreases metabolic cost of movement and prevents decrease of physical activity during aging in rhesus monkeys. *Experimental Gerontology*, **2013**, 48, 1226-35	4.5	44
75	Body weight impact on puberty: effects of high-calorie diet on puberty onset in female rhesus monkeys. *Endocrinology*, **2012**, 153, 1696-705	4.8	44
74	Effect of neonatal hypoxia on leptin, insulin, growth hormone and body composition in the rat. *Hormone and Metabolic Research*, **2001**, 33, 151-5	3.1	44
73	Cellular adaptation contributes to calorie restriction-induced preservation of skeletal muscle in aged rhesus monkeys. *Experimental Gerontology*, **2012**, 47, 229-36	4.5	43
72	A calorie-restricted diet decreases brain iron accumulation and preserves motor performance in old rhesus monkeys. *Journal of Neuroscience*, **2010**, 30, 7940-7	6.6	42
71	Muscle mass loss in Rhesus monkeys: age of onset. *Experimental Gerontology*, **2005**, 40, 573-81	4.5	42
70	Skeletal Effects of Aging and Menopausal Status in Female Rhesus Macaques. *Journal of Clinical Endocrinology and Metabolism*, **1999**, 84, 4144-4148	5.6	41

69	Calorie restriction reduces the influence of glucoregulatory dysfunction on regional brain volume in aged rhesus monkeys. *Diabetes*, **2012**, 61, 1036-42	0.9	38
68	Caloric Restriction Engages Hepatic RNA Processing Mechanisms in Rhesus Monkeys. *Cell Metabolism*, **2018**, 27, 677-688.e5	24.6	37
67	Caloric Restriction and Healthy Life Span: Frail Phenotype of Nonhuman Primates in the Wisconsin National Primate Research Center Caloric Restriction Study. *Journals of Gerontology - Series A Biological Sciences and Medical Sciences*, **2018**, 73, 273-278	6.4	36
66	Prenatal androgen excess negatively impacts body fat distribution in a nonhuman primate model of polycystic ovary syndrome. *International Journal of Obesity*, **2007**, 31, 1579-85	5.5	36
65	(V) collagen is critical for glucose homeostasis in mice due to effects in pancreatic islets and peripheral tissues. *Journal of Clinical Investigation*, **2011**, 121, 769-83	15.9	36
64	Body fat distribution with long-term dietary restriction in adult male rhesus macaques. *Journals of Gerontology - Series A Biological Sciences and Medical Sciences*, **1999**, 54, B283-90	6.4	35
63	The effect of dietary restriction on body composition in adult male and female rhesus macaques. *Aging Clinical and Experimental Research*, **1998**, 10, 83-92	4.8	33
62	Calorie restriction reduces psychological stress reactivity and its association with brain volume and microstructure in aged rhesus monkeys. *Psychoneuroendocrinology*, **2012**, 37, 903-16	5	32
61	Longitudinal analysis of early stage sarcopenia in aging rhesus monkeys. *Experimental Gerontology*, **2009**, 44, 170-6	4.5	29
60	A calorie-restricted diet decreases brain iron accumulation and preserves motor performance in old rhesus monkeys. *Journal of Neuroscience*, **2012**, 32, 11897-904	6.6	28
59	Different Central and Peripheral Responses to Leptin in Rhesus Monkeys: Brain Transport May Be Limited. *Journal of Clinical Endocrinology and Metabolism*, **1998**, 83, 3230-3235	5.6	28
58	Untangling Determinants of Enhanced Health and Lifespan through a Multi-omics Approach in Mice. *Cell Metabolism*, **2020**, 32, 100-116.e4	24.6	27
57	Different central and peripheral responses to leptin in rhesus monkeys: brain transport may be limited. *Journal of Clinical Endocrinology and Metabolism*, **1998**, 83, 3230-5	5.6	27
56	Insulin sensitivity and glucose effectiveness from three minimal models: effects of energy restriction and body fat in adult male rhesus monkeys. *American Journal of Physiology - Regulatory Integrative and Comparative Physiology*, **2003**, 285, R1340-54	3.2	25
55	Bone loss detection in rats using a mouse densitometer. *Journal of Bone and Mineral Research*, **2003** , 18, 370-5	6.3	25
54	Energy expenditure, body composition, and glucose metabolism in lean and obese rhesus monkeys treated with ephedrine and caffeine. *American Journal of Clinical Nutrition*, **1998**, 68, 42-51	7	25
53	Brain volumetric and microstructural correlates of executive and motor performance in aged rhesus monkeys. *Frontiers in Aging Neuroscience*, **2012**, 4, 31	5.3	22
52	Top-down Mass Spectrometry of Sarcomeric Protein Post-translational Modifications from Non-human Primate Skeletal Muscle. *Journal of the American Society for Mass Spectrometry*, **2019**, 30, 2460-2469	3.5	21

51	Regional metabolic heterogeneity of the hippocampus is nonuniformly impacted by age and caloric restriction. *Aging Cell*, **2016**, 15, 100-10	9.9	20
50	Caloric restriction impacts plasma microRNAs in rhesus monkeys. *Aging Cell*, **2017**, 16, 1200-1203	9.9	20
49	A comparison of dual-energy X-ray absorptiometry and somatometrics for determining body fat in rhesus macaques. *Obesity*, **1999**, 7, 90-6		20
48	Influences of calorie restriction and age on energy expenditure in the rhesus monkey. *American Journal of Physiology - Endocrinology and Metabolism*, **2007**, 292, E101-6	6	19
47	Reference body composition in adult rhesus monkeys: glucoregulatory and anthropometric indices. *Journals of Gerontology - Series A Biological Sciences and Medical Sciences*, **2005**, 60, 1518-24	6.4	18
46	Calorie restriction attenuates astrogliosis but not amyloid plaque load in aged rhesus macaques: a preliminary quantitative imaging study. *Brain Research*, **2013**, 1508, 1-8	3.7	17
45	Skeletal effects of long-term caloric restriction in rhesus monkeys. *Age*, **2012**, 34, 1133-43		16
44	Homocysteine, neural atrophy, and the effect of caloric restriction in rhesus monkeys. *Neurobiology of Aging*, **2012**, 33, 670-80	5.6	16
43	Sex differences in spinal osteoarthritis in humans and rhesus monkeys (Macaca mulatta). *Spine*, **2012**, 37, 915-22	3.3	16
42	Age-Related Differences in the Gut Microbiome of Rhesus Macaques. *Journals of Gerontology - Series A Biological Sciences and Medical Sciences*, **2020**, 75, 1293-1298	6.4	15
41	Molecular and Functional Networks Linked to Sarcopenia Prevention by Caloric Restriction in Rhesus Monkeys. *Cell Systems*, **2020**, 10, 156-168.e5	10.6	15
40	Assessment of nutritional status in rhesus monkeys: comparison of dual-energy X-ray absorptiometry and stable isotope dilution. *Journal of Medical Primatology*, **2005**, 34, 130-8	0.7	15
39	Plasma diacylglycerol composition is a biomarker of metabolic syndrome onset in rhesus monkeys. *Journal of Lipid Research*, **2015**, 56, 1461-70	6.3	13
38	Development of metabolic function biomarkers in the common marmoset, Callithrix jacchus. *American Journal of Primatology*, **2013**, 75, 500-8	2.5	13
37	Longitudinal study of radiographic spinal osteoarthritis in a macaque model. *Journal of Orthopaedic Research*, **2011**, 29, 1152-60	3.8	13
36	Energy restriction-induced changes in body composition are age specific in mice. *Journal of Nutrition*, **2007**, 137, 2247-51	4.1	13
35	Glucoregulatory function in adult rhesus macaques (Macaca mulatta) undergoing treatment with medroxyprogesterone acetate for endometriosis. *Journal of the American Association for Laboratory Animal Science*, **2011**, 50, 921-5	1.3	13
34	Growth hormone therapy during neonatal hypoxia in rats: body composition, bone mineral density, and insulin-like growth factor-1 expression. *Endocrine*, **2001**, 16, 139-43		10

33	Fathering style influences health outcome in common marmoset (Callithrix jacchus) offspring. *PLoS ONE*, **2017**, 12, e0185695	3.7	9
32	Prospects and perspectives in primate aging research. *Antioxidants and Redox Signaling*, **2011**, 14, 203-5	8.4	8
31	Metabolizable energy intake during long-term calorie restriction in rhesus monkeys. *Experimental Gerontology*, **2007**, 42, 988-94	4.5	8
30	Dietary restriction and beta-cell sensitivity to glucose in adult male rhesus monkeys. *Journals of Gerontology - Series A Biological Sciences and Medical Sciences*, **2003**, 58, 598-610	6.4	8
29	Aging Experiments Using Nonhuman Primates **1998**, 249-267		8
28	High fat diet decreases beneficial effects of estrogen on serotonin-related gene expression in marmosets. *Progress in Neuro-Psychopharmacology and Biological Psychiatry*, **2015**, 58, 71-80	5.5	7
27	Diet, digestion and energy intake in captive common marmosets (Callithrix jacchus): research and management implications. *Scientific Reports*, **2019**, 9, 12134	4.9	6
26	Effect of age and calorie restriction on corpus callosal integrity in rhesus macaques: a fiber tractography study. *Neuroscience Letters*, **2014**, 569, 38-42	3.3	6
25	Using snacks high in fat and protein to improve glucoregulatory function in adolescent male marmosets (Callithrix jacchus). *Journal of the American Association for Laboratory Animal Science*, **2013**, 52, 756-62	1.3	6
24	Hyperinsulinemia/diabetes, hearing, and aging in the University of Wisconsin calorie restriction monkeys. *Hearing Research*, **2015**, 328, 78-86	3.9	5
23	Early learning in the common marmoset (Callithrix jacchus): Behavior in the family group is related to preadolescent cognitive performance. *American Journal of Primatology*, **2020**, 82, e23159	2.5	4
22	Marmosets: Welfare, Ethical Use, and IACUC/Regulatory Considerations. *ILAR Journal*, **2021**,	1.7	4
21	Improving rigor and reproducibility in nonhuman primate research. *American Journal of Primatology* , **2021**, 83, e23331	2.5	4
20	Maintenance of bone mass despite estrogen depletion in female common marmoset monkeys (Callithrix jacchus). *American Journal of Primatology*, **2019**, 81, e22905	2.5	3
19	Inexpensive Home Infrared Living/Environment Sensor with Regional Thermal Information for Infant Physical and Psychological Development. *International Journal of Environmental Research and Public Health*, **2020**, 17,	4.6	3
18	Current practices in nutrition management and disease incidence of common marmosets (Callithrix jacchus). *Journal of Medical Primatology*, **2021**, 50, 164-175	0.7	3
17	Fasting blood glucose as a predictor of mortality: Lost in translation. *Cell Metabolism*, **2021**, 33, 2189-2200.e3	24.3	3
16	Adiponectin receptor agonist AdipoRon improves skeletal muscle function in aged mice.. *ELife*, **2022**, 11,	8.9	3

15	Evaluation of vitamin D metabolites in Callithrix jacchus (common marmoset). *American Journal of Primatology*, **2020**, 82, e23131	2.5	2
14	Aging and the Effect of Calorie Restriction in Rhesus Monkeys **2010**, 55-78		2
13	Response to Le Bourg. *Journals of Gerontology - Series A Biological Sciences and Medical Sciences*, **2018**, 73, 310	6.4	1
12	Ovarian estradiol supports sexual behavior but not energy homeostasis in female marmoset monkeys. *International Journal of Obesity*, **2019**, 43, 1034-1045	5.5	1
11	Calorie Restriction in Nonhuman and Human Primates **2011**, 447-461		1
10	Authors Response: Dubious Assumptions Underlying the Adjustment of Metabolic Rates for Changes in Fat-Free Mass. *Journal of Clinical Endocrinology and Metabolism*, **2003**, 88, 3454-3455	5.6	1
9	Ketamine-induced neuromuscular reactivity is associated with aging in female rhesus macaques. *PLoS ONE*, **2020**, 15, e0236430	3.7	1
8	Rhesus monkeys as a translational model for late-onset Alzheimer's disease. *Aging Cell*, **2021**, 20, e13374	9.9	1
7	Marmoset Metabolism, Nutrition, and Obesity. *ILAR Journal*, **2021**,	1.7	1
6	Aromatase Inhibition Eliminates Sexual Receptivity Without Enhancing Weight Gain in Ovariectomized Marmoset Monkeys.. *Journal of the Endocrine Society*, **2022**, 6, bvac063	0.4	0
5	Structural and functional variations in the prefrontal cortex are associated with learning in pre-adolescent common marmosets (Callithrix jacchus). *Behavioural Brain Research*, **2022**, 430, 113920	3.4	0
4	Impact of dietary fat and sucrose consumption on cardiac fibrosis in rhesus monkeys and mice. *FASEB Journal*, **2019**, 33, lb467	0.9	
3	Exploring Mechanisms of Aging Retardation by Caloric Restriction: Studies in Model Organisms and Mammals **2010**, 69-96		
2	Development and validation of an LC-MS/MS based quantitative assay for marmoset insulin in serum.. *Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences*, **2022**, 1195, 123150	3.2	
1	Motivational increase of androgens and behavior by infant distress calls in highly responsive common marmoset fathers, Callithrix jacchus.. *Hormones and Behavior*, **2022**, 142, 105162	3.7	