Theodore Garland Jr

List of Publications by Citations

282 papers	21,129 citations	70 h-index	139 g-index
293 ext. papers	23,146 ext. citations	3.4 avg, IF	7.04 L-index

#	Paper	IF	Citations
282	Testing for phylogenetic signal in comparative data: behavioral traits are more labile. *Evolution; International Journal of Organic Evolution*, **2003**, 57, 717-45	3.8	2956
281	Using the Past to Predict the Present: Confidence Intervals for Regression Equations in Phylogenetic Comparative Methods. *American Naturalist*, **2000**, 155, 346-364	3.7	694
280	PHYLOGENETIC ANALYSES OF THE CORRELATED EVOLUTION OF CONTINUOUS CHARACTERS: A SIMULATION STUDY. *Evolution; International Journal of Organic Evolution*, **1991**, 45, 534-557	3.8	602
279	Why tropical forest lizards are vulnerable to climate warming. *Proceedings of the Royal Society B: Biological Sciences*, **2009**, 276, 1939-48	4.4	566
278	Why Not to Do Two-Species Comparative Studies: Limitations on Inferring Adaptation. *Physiological Zoology*, **1994**, 67, 797-828		543
277	Phylogenetic approaches in comparative physiology. *Journal of Experimental Biology*, **2005**, 208, 3015-35	3	526
276	An Introduction to Phylogenetically Based Statistical Methods, with a New Method for Confidence Intervals on Ancestral Values. *American Zoologist*, **1999**, 39, 374-388		488
275	Integrating Function and Ecology in Studies of Adaptation: Investigations of Locomotor Capacity as a Model System. *Annual Review of Ecology, Evolution, and Systematics*, **2001**, 32, 367-396		341
274	Within-species variation and measurement error in phylogenetic comparative methods. *Systematic Biology*, **2007**, 56, 252-70	8.4	334
273	The biological control of voluntary exercise, spontaneous physical activity and daily energy expenditure in relation to obesity: human and rodent perspectives. *Journal of Experimental Biology*, **2011**, 214, 206-29	3	314
272	Phylogenetic logistic regression for binary dependent variables. *Systematic Biology*, **2010**, 59, 9-26	8.4	295
271	Artificial selection for increased wheel-running behavior in house mice. *Behavior Genetics*, **1998**, 28, 227-37	3.2	291
270	Performance, personality, and energetics: correlation, causation, and mechanism. *Physiological and Biochemical Zoology*, **2012**, 85, 543-71	2	283
269	Evolution of Sprint Speed in Lacertid Lizards: Morphological, Physiological and Behavioral Covariation. *Evolution; International Journal of Organic Evolution*, **1995**, 49, 848	3.8	276
268	The primate semicircular canal system and locomotion. *Proceedings of the National Academy of Sciences of the United States of America*, **2007**, 104, 10808-12	11.5	272
267	Testing Hypotheses of Correlated Evolution Using Phylogenetically Independent Contrasts: Sensitivity to Deviations from Brownian Motion. *Systematic Biology*, **1996**, 45, 27-47	8.4	246
266	TESTING FOR PHYLOGENETIC SIGNAL IN COMPARATIVE DATA: BEHAVIORAL TRAITS ARE MORE LABILE. *Evolution; International Journal of Organic Evolution*, **2003**, 57, 717	3.8	222

265	Morphometrics of the avian small intestine compared with that of nonflying mammals: a phylogenetic approach. *Physiological and Biochemical Zoology*, **2008**, 81, 526-50	2	221
264	Phenotypic plasticity and experimental evolution. *Journal of Experimental Biology*, **2006**, 209, 2344-61	3	220
263	Does metatarsal/femur ratio predict maximal running speed in cursorial mammals?. *Journal of Zoology*, **1993**, 229, 133-151	2	211
262	Scaling the Ecological Cost of Transport to Body Mass in Terrestrial Mammals. *American Naturalist*, **1983**, 121, 571-587	3.7	209
261	Rate tests for phenotypic evolution using phylogenetically independent contrasts. *American Naturalist*, **1992**, 140, 509-19	3.7	204
260	Effects of branch length errors on the performance of phylogenetically independent contrasts. *Systematic Biology*, **1998**, 47, 654-72	8.4	203
259	Exercise increases hippocampal neurogenesis to high levels but does not improve spatial learning in mice bred for increased voluntary wheel running. *Behavioral Neuroscience*, **2003**, 117, 1006-16	2.1	201
258	Patterns of brain activity associated with variation in voluntary wheel-running behavior. *Behavioral Neuroscience*, **2003**, 117, 1243-56	2.1	199
257	Predictors of avian and mammalian translocation success: reanalysis with phylogenetically independent contrasts. *Biological Conservation*, **1998**, 86, 243-255	6.2	194
256	Procedures for the Analysis of Comparative Data Using Phylogenetically Independent Contrasts. *Systematic Biology*, **1992**, 41, 18	8.4	193
255	THE EVOLUTION OF ENDOTHERMY: TESTING THE AEROBIC CAPACITY MODEL. *Evolution; International Journal of Organic Evolution*, **1995**, 49, 836-847	3.8	186
254	Effects of voluntary activity and genetic selection on aerobic capacity in house mice (Mus domesticus). *Journal of Applied Physiology*, **1998**, 84, 69-76	3.7	170
253	AMP-activated protein kinase is involved in endothelial NO synthase activation in response to shear stress. *Arteriosclerosis, Thrombosis, and Vascular Biology*, **2006**, 26, 1281-7	9.4	169
252	Locomotor performance and social dominance in male Anolis cristatellus. *Animal Behaviour*, **2004**, 67, 37-47	2.8	169
251	Climatic adaptation and the evolution of basal and maximum rates of metabolism in rodents. *Evolution; International Journal of Organic Evolution*, **2004**, 58, 1361-74	3.8	166
250	Neurobiology of Mice Selected for High Voluntary Wheel-running Activity. *Integrative and Comparative Biology*, **2005**, 45, 438-55	2.8	156
249	Aquatic insect ecophysiological traits reveal phylogenetically based differences in dissolved cadmium susceptibility. *Proceedings of the National Academy of Sciences of the United States of America*, **2008**, 105, 8321-6	11.5	152
248	Sprint performance of phrynosomatid lizards, measured on a high-speed treadmill, correlates with hindlimb length. *Journal of Zoology*, **1999**, 248, 255-265	2	146

247	Experimental Evolution **2009**,		139
246	LIZARD HOME RANGES REVISITED: EFFECTS OF SEX, BODY SIZE, DIET, HABITAT, AND PHYLOGENY. *Ecology*, **2002**, 83, 1870-1885	4.6	136
245	GENETIC BASIS OF ACTIVITY METABOLISM. I. INHERITANCE OF SPEED, STAMINA, AND ANTIPREDATOR DISPLAYS IN THE GARTER SNAKE THAMNOPHIS SIRTALIS. *Evolution; International Journal of Organic Evolution*, **1988**, 42, 335-350	3.8	134
244	Phylogenetic analysis of coadaptation in behavior, diet, and body size in the African antelope. *Behavioral Ecology*, **2000**, 11, 452-463	2.3	128
243	Time Budgets, Thermoregulation, and Maximal Locomotor Performance: Are Reptiles Olympians or Boy Scouts?. *American Zoologist*, **1988**, 28, 927-938		126
242	Locomotor performance of hatchling fence lizards (Sceloporus occidentalis): Quantitative genetics and morphometric correlates. *Evolutionary Ecology*, **1989**, 3, 240-252	1.8	123
241	Evolution of a small-muscle polymorphism in lines of house mice selected for high activity levels. *Evolution; International Journal of Organic Evolution*, **2002**, 56, 1267-75	3.8	122
240	Effects of voluntary activity and genetic selection on muscle metabolic capacities in house mice Mus domesticus. *Journal of Applied Physiology*, **2000**, 89, 1608-16	3.7	122
239	PHYLOGENY AND COADAPTATION OF THERMAL PHYSIOLOGY IN LIZARDS: A REANALYSIS. *Evolution; International Journal of Organic Evolution*, **1991**, 45, 1969-1975	3.8	121
238	Behaviour of house mice artificially selected for high levels of voluntary wheel running. *Animal Behaviour*, **1999**, 58, 1307-1318	2.8	117
237	Polytomies and phylogenetically independent contrasts: examination of the bounded degrees of freedom approach. *Systematic Biology*, **1999**, 48, 547-58	8.4	113
236	Circadian pattern of total and free corticosterone concentrations, corticosteroid-binding globulin, and physical activity in mice selectively bred for high voluntary wheel-running behavior. *General and Comparative Endocrinology*, **2008**, 156, 210-7	3	105
235	Baseline and stress-induced plasma corticosterone concentrations of mice selectively bred for high voluntary wheel running. *Physiological and Biochemical Zoology*, **2007**, 80, 146-56	2	104
234	Developmental regulation of skull morphology. I. Ontogenetic dynamics of variance. *Evolution & Development*, **2004**, 6, 194-206	2.6	100
233	Trade-offs. *Current Biology*, **2014**, 24, R60-R61	6.3	97
232	The quantitative genetics of maximal and basal rates of oxygen consumption in mice. *Genetics*, **2001**, 159, 267-77	4	95
231	Phylogenetic Analysis of Covariance by Computer Simulation. *Systematic Biology*, **1993**, 42, 265	8.4	93
230	Did genetic drift drive increases in genome complexity?. *PLoS Genetics*, **2010**, 6, e1001080	6	91

229	Behavioral despair and home-cage activity in mice with chronically elevated baseline corticosterone concentrations. *Behavior Genetics*, **2009**, 39, 192-201	3.2	88
228	The evolution of high summit metabolism and cold tolerance in birds and its impact on present-day distributions. *Evolution; International Journal of Organic Evolution*, **2009**, 63, 184-94	3.8	88
227	Limb and tail lengths in relation to substrate usage in Tropidurus lizards. *Journal of Morphology*, **2001**, 248, 151-64	1.6	88
226	Quantitative Genetics of Locomotor Speed and Endurance in the Lizard Lacerta vivipara. *Physiological Zoology*, **1995**, 68, 698-720		83
225	Maximal metabolic rates during voluntary exercise, forced exercise, and cold exposure in house mice selectively bred for high wheel-running. *Journal of Experimental Biology*, **2005**, 208, 2447-58	3	78
224	Dopaminergic dysregulation in mice selectively bred for excessive exercise or obesity. *Behavioural Brain Research*, **2010**, 210, 155-63	3.4	77
223	How to run far: multiple solutions and sex-specific responses to selective breeding for high voluntary activity levels. *Proceedings of the Royal Society B: Biological Sciences*, **2011**, 278, 574-81	4.4	77
222	Voluntary running in deer mice: speed, distance, energy costs and temperature effects. *Journal of Experimental Biology*, **2004**, 207, 3839-54	3	77
221	Laboratory endurance capacity predicts variation in field locomotor behaviour among lizard species. *Animal Behaviour*, **1999**, 58, 77-83	2.8	77
220	Individual variation in locomotor behavior and maximal oxygen consumption in mice. *Physiology and Behavior*, **1992**, 52, 97-104	3.5	76
219	Endurance capacity of mice selectively bred for high voluntary wheel running. *Journal of Experimental Biology*, **2009**, 212, 2908-17	3	75
218	Experimental evolution and phenotypic plasticity of hindlimb bones in high-activity house mice. *Journal of Morphology*, **2006**, 267, 360-74	1.6	74
217	Effects of size, sex, and voluntary running speeds on costs of locomotion in lines of laboratory mice selectively bred for high wheel-running activity. *Physiological and Biochemical Zoology*, **2006**, 79, 83-99	2	74
216	Effects of a Full Stomach on Locomotory Performance of Juvenile Garter Snakes (Thamnophis elegans). *Copeia*, **1983**, 1983, 1092	1.1	74
215	TESTING SYMMORPHOSIS: DOES STRUCTURE MATCH FUNCTIONAL REQUIREMENTS?. *Evolution; International Journal of Organic Evolution*, **1987**, 41, 1404-1409	3.8	73
214	Diet, phylogeny, and basal metabolic rate in phyllostomid bats. *Zoology*, **2001**, 104, 49-58	1.7	71
213	Island tameness: living on islands reduces flight initiation distance. *Proceedings of the Royal Society B: Biological Sciences*, **2014**, 281, 20133019	4.4	70
212	Open-field behavior of house mice selectively bred for high voluntary wheel-running. *Behavior Genetics*, **2001**, 31, 309-16	3.2	70

211	QUANTITATIVE GENETICS OF SPRINT RUNNING SPEED AND SWIMMING ENDURANCE IN LABORATORY HOUSE MICE (MUS DOMESTICUS). *Evolution; International Journal of Organic Evolution*, **1996**, 50, 1688-1701	3.8	69
210	Maximum aerobic performance in lines of Mus selected for high wheel-running activity: effects of selection, oxygen availability and the mini-muscle phenotype. *Journal of Experimental Biology*, **2006**, 209, 115-27	3	67
209	Glucocorticoid response to forced exercise in laboratory house mice (Mus domesticus). *Physiology and Behavior*, **1998**, 63, 279-85	3.5	66
208	Maximal oxygen consumption in relation to subordinate traits in lines of house mice selectively bred for high voluntary wheel running. *Journal of Applied Physiology*, **2006**, 101, 477-85	3.7	64
207	Phenotypic and evolutionary plasticity of organ masses in response to voluntary exercise in house mice. *Integrative and Comparative Biology*, **2005**, 45, 426-37	2.8	64
206	Running behavior and its energy cost in mice selectively bred for high voluntary locomotor activity. *Physiological and Biochemical Zoology*, **2009**, 82, 662-79	2	63
205	Do precocial mammals develop at a faster rate? A comparison of rates of skull development in Sigmodon fulviventer and Mus musculus domesticus. *Journal of Evolutionary Biology*, **2003**, 16, 708-20	2.3	63
204	EVOLUTION OF SPRINT SPEED IN LACERTID LIZARDS: MORPHOLOGICAL, PHYSIOLOGICAL, AND BEHAVIORAL COVARIATION. *Evolution; International Journal of Organic Evolution*, **1995**, 49, 848-863	3.8	63
203	Genetic variations and physical activity as determinants of limb bone morphology: an experimental approach using a mouse model. *American Journal of Physical Anthropology*, **2012**, 148, 24-35	2.5	62
202	Repeatability and correlation of swimming performances and size over varying time-scales in the guppy (Poecilia reticulata). *Functional Ecology*, **2009**, 23, 969-978	5.6	62
201	Relationships among running performance, aerobic physiology and organ mass in male Mongolian gerbils. *Journal of Experimental Biology*, **2007**, 210, 4179-97	3	62
200	The Evolution of Endothermy: Testing the Aerobic Capacity Model. *Evolution; International Journal of Organic Evolution*, **1995**, 49, 836	3.8	62
199	Developmental regulation of skull morphology II: ontogenetic dynamics of covariance. *Evolution & Development*, **2006**, 8, 46-60	2.6	61
198	Differential response to a selective cannabinoid receptor antagonist (SR141716: rimonabant) in female mice from lines selectively bred for high voluntary wheel-running behaviour. *Behavioural Pharmacology*, **2008**, 19, 812-20	2.4	60
197	Limits to behavioral evolution: the quantitative genetics of a complex trait under directional selection. *Evolution; International Journal of Organic Evolution*, **2013**, 67, 3102-19	3.8	59
196	Kidney mass and relative medullary thickness of rodents in relation to habitat, body size, and phylogeny. *Physiological and Biochemical Zoology*, **2004**, 77, 346-65	2	57
195	Artificial selection for high activity favors mighty mini-muscles in house mice. *American Journal of Physiology - Regulatory Integrative and Comparative Physiology*, **2003**, 284, R433-43	3.2	56
194	Phylogenetic Regression for Binary Dependent Variables **2014**, 231-261		55

193	Locomotory Capacities, Oxygen Consumption, and the Cost of Locomotion of the Shingle-Back Lizard (Trachydosaurus rugosus). *Physiological Zoology*, **1986**, 59, 523-531		55
192	A brief opportunity to run does not function as a reinforcer for mice selected for high daily wheel-running rates. *Journal of the Experimental Analysis of Behavior*, **2007**, 88, 199-213	2.1	54
191	SELECTIVE BREEDING FOR HIGH ENDURANCE RUNNING INCREASES HINDLIMB SYMMETRY. *Evolution; International Journal of Organic Evolution*, **2005**, 59, 1851-1854	3.8	54
190	Phylogeny, ecology, and heart position in snakes. *Physiological and Biochemical Zoology*, **2010**, 83, 43-54	2	53
189	Latitudinal and climatic variation in body size and dorsal scale counts in Sceloporus lizards:a phylogenetic perspective. *Evolution; International Journal of Organic Evolution*, **2011**, 65, 3590-607	3.8	52
188	Western diet increases wheel running in mice selectively bred for high voluntary wheel running. *International Journal of Obesity*, **2010**, 34, 960-9	5.5	52
187	Genetic Basis of Activity Metabolism. I. Inheritance of Speed, Stamina, and Antipredator Displays in the Garter Snake Thamnophis sirtalis. *Evolution; International Journal of Organic Evolution*, **1988**, 42, 335	3.8	52
186	Genetic architecture of voluntary exercise in an advanced intercross line of mice. *Physiological Genomics*, **2010**, 42, 190-200	3.6	51
185	Behavioural and physiological responses to increased foraging effort in male mice. *Journal of Experimental Biology*, **2007**, 210, 2013-24	3	51
184	A Generalized Permutation Model for the Analysis of Cross-Species Data. *Journal of Classification*, **2001**, 18, 109-127	1.2	50
183	Hormones and the Evolution of Complex Traits: Insights from Artificial Selection on Behavior. *Integrative and Comparative Biology*, **2016**, 56, 207-24	2.8	49
182	Erythropoietin elevates VO2,max but not voluntary wheel running in mice. *Journal of Experimental Biology*, **2010**, 213, 510-9	3	49
181	Sexual size dimorphism in a Drosophila clade, the D. obscura group. *Zoology*, **2006**, 109, 318-30	1.7	49
180	Contractile abilities of normal and "mini" triceps surae muscles from mice (Mus domesticus) selectively bred for high voluntary wheel running. *Journal of Applied Physiology*, **2005**, 99, 1308-16	3.7	49
179	Biological/Genetic Regulation of Physical Activity Level: Consensus from GenBioPAC. *Medicine and Science in Sports and Exercise*, **2018**, 50, 863-873	1.2	48
178	Comparative effectiveness of Longworth and Sherman live traps. *Wildlife Society Bulletin*, **2005**, 33, 1018-1026	1.1	47
177	Predatory aggression, but not maternal or intermale aggression, is associated with high voluntary wheel-running behavior in mice. *Hormones and Behavior*, **2003**, 44, 209-21	3.7	47
176	Comparative analysis of fiber-type composition in the iliofibularis muscle of phrynosomatid lizards (Squamata). *Journal of Morphology*, **2001**, 250, 265-80	1.6	47

175	A multi-megabase copy number gain causes maternal transmission ratio distortion on mouse chromosome 2. *PLoS Genetics*, **2015**, 11, e1004850	6	46
174	Swimming performance trade-offs across a gradient in community composition in Trinidadian killifish (Rivulus hartii). *Ecology*, **2011**, 92, 170-9	4.6	46
173	Selection Experiments as a Tool in Evolutionary and Comparative Physiology: Insights into Complex Traits--an Introduction to the Symposium. *Integrative and Comparative Biology*, **2005**, 45, 387-90	2.8	46
172	Effects of voluntary exercise on spontaneous physical activity and food consumption in mice: Results from an artificial selection experiment. *Physiology and Behavior*, **2015**, 149, 86-94	3.5	45
171	Phylogenetic analysis of mammalian maximal oxygen consumption during exercise. *Journal of Experimental Biology*, **2013**, 216, 4712-21	3	45
170	Glycogen storage and muscle glucose transporters (GLUT-4) of mice selectively bred for high voluntary wheel running. *Journal of Experimental Biology*, **2009**, 212, 238-48	3	45
169	Mice selectively bred for high voluntary wheel running have larger midbrains: support for the mosaic model of brain evolution. *Journal of Experimental Biology*, **2013**, 216, 515-23	3	44
168	Locomotion in response to shifting climate zones: not so fast. *Annual Review of Physiology*, **2010**, 72, 167-90	23.1	44
167	Food wasting by house mice: variation among individuals, families, and genetic lines. *Physiology and Behavior*, **2003**, 80, 375-83	3.5	43
166	Leptin levels and body composition of mice selectively bred for high voluntary locomotor activity. *Physiological and Biochemical Zoology*, **2007**, 80, 568-79	2	42
165	Voluntary exercise and its effects on body composition depend on genetic selection history. *Obesity*, **2009**, 17, 1402-9	8	41
164	Muscle fiber-type variation in lizards (Squamata) and phylogenetic reconstruction of hypothesized ancestral states. *Journal of Experimental Biology*, **2005**, 208, 4529-47	3	41
163	Sex differences in cannabinoid receptor-1 (CB1) pharmacology in mice selectively bred for high voluntary wheel-running behavior. *Pharmacology Biochemistry and Behavior*, **2012**, 101, 528-37	3.9	40
162	Morphological evolution in Tropidurinae squamates: an integrated view along a continuum of ecological settings. *Journal of Evolutionary Biology*, **2010**, 23, 98-111	2.3	40
161	QTL underlying voluntary exercise in mice: interactions with the "mini muscle" locus and sex. *Journal of Heredity*, **2010**, 101, 42-53	2.4	40
160	Chapter 11. Phylogenetic Analyses of Lizard Endurance Capacity in Relation to Body Size and Body Temperature **1994**, 237-260		40
159	R2d2 Drives Selfish Sweeps in the House Mouse. *Molecular Biology and Evolution*, **2016**, 33, 1381-95	8.3	39
158	Functional significance of genetic variation underlying limb bone diaphyseal structure. *American Journal of Physical Anthropology*, **2010**, 143, 21-30	2.5	39

157	Exercise, weight loss, and changes in body composition in mice: phenotypic relationships and genetic architecture. *Physiological Genomics*, **2011**, 43, 199-212	3.6	38
156	Ontogenies in mice selected for high voluntary wheel-running activity. I. Mean ontogenies. *Evolution; International Journal of Organic Evolution*, **2003**, 57, 646-57	3.8	37
155	Male superiority in spatial navigation: adaptation or side effect?. *Quarterly Review of Biology*, **2012**, 87, 289-313	5.4	36
154	Developmental trait evolution in trilobites. *Evolution; International Journal of Organic Evolution*, **2012**, 66, 314-29	3.8	36
153	Fine mapping of "mini-muscle," a recessive mutation causing reduced hindlimb muscle mass in mice. *Journal of Heredity*, **2008**, 99, 679-87	2.4	36
152	Evolution of the additive genetic variance-covariance matrix under continuous directional selection on a complex behavioural phenotype. *Proceedings of the Royal Society B: Biological Sciences*, **2015**, 282,	4.4	34
151	Maximal sprint speeds and muscle fiber composition of wild and laboratory house mice. *Physiology and Behavior*, **1995**, 58, 869-76	3.5	34
150	Are voluntary wheel running and open-field behavior correlated in mice? Different answers from comparative and artificial selection approaches. *Behavior Genetics*, **2012**, 42, 830-44	3.2	33
149	Phenotypic effects of the "mini-muscle" allele in a large HR x C57BL/6J mouse backcross. *Journal of Heredity*, **2008**, 99, 349-54	2.4	33
148	Effects of genetic selection and voluntary activity on the medial gastrocnemius muscle in house mice. *Journal of Applied Physiology*, **1999**, 87, 2326-33	3.7	33
147	Genetic approaches in comparative and evolutionary physiology. *American Journal of Physiology - Regulatory Integrative and Comparative Physiology*, **2015**, 309, R197-214	3.2	32
146	Locomotor trade-offs in mice selectively bred for high voluntary wheel running. *Journal of Experimental Biology*, **2009**, 212, 2612-8	3	32
145	Effects of voluntary exercise and genetic selection for high activity levels on HSP72 expression in house mice. *Journal of Applied Physiology*, **2004**, 96, 1270-6	3.7	32
144	Nesting behavior of house mice (Mus domesticus) selected for increased wheel-running activity. *Behavior Genetics*, **2000**, 30, 85-94	3.2	32
143	Evolutionary patterns in trace metal (cd and zn) efflux capacity in aquatic organisms. *Environmental Science & Technology*, **2013**, 47, 7989-95	10.3	31
142	Selective breeding as a tool to probe skeletal response to high voluntary locomotor activity in mice. *Integrative and Comparative Biology*, **2008**, 48, 394-410	2.8	31
141	Morphometry, ultrastructure, myosin isoforms, and metabolic capacities of the "mini muscles" favoured by selection for high activity in house mice. *Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology*, **2006**, 144, 271-82	2.3	31
140	Artificial selection for increased maternal defense behavior in mice. *Behavior Genetics*, **2006**, 36, 713-22	3.2	31

139	Protein synthesis and antioxidant capacity in aging mice: effects of long-term voluntary exercise. *Physiological and Biochemical Zoology*, **2008**, 81, 148-57	2	30
138	Are Megabats Big?. *Journal of Mammalian Evolution*, **2004**, 11, 257-277	2.2	29
137	Opioid-mediated pain sensitivity in mice bred for high voluntary wheel running. *Physiology and Behavior*, **2004**, 83, 515-24	3.5	29
136	A novel intronic single nucleotide polymorphism in the myosin heavy polypeptide 4 gene is responsible for the mini-muscle phenotype characterized by major reduction in hind-limb muscle mass in mice. *Genetics*, **2013**, 195, 1385-95	4	28
135	Drift and genome complexity revisited. *PLoS Genetics*, **2011**, 7, e1002092	6	28
134	Basal metabolic rate of aged mice is affected by random genetic drift but not by selective breeding for high early-age locomotor activity or chronic wheel access. *Physiological and Biochemical Zoology*, **2008**, 81, 288-300	2	28
133	Paternal responsiveness is associated with, but not mediated by reduced neophobia in male California mice (Peromyscus californicus). *Physiology and Behavior*, **2012**, 107, 65-75	3.5	27
132	Dominance, plasma testosterone levels, and testis size in house mice artificially selected for high activity levels. *Physiology and Behavior*, **2002**, 77, 27-38	3.5	27
131	Quantitative Genetics of Sprint Running Speed and Swimming Endurance in Laboratory House Mice (Mus domesticus). *Evolution; International Journal of Organic Evolution*, **1996**, 50, 1688	3.8	27
130	Quantitative Genetics of Scale Counts in the Garter Snake Thamnophis sirtalis. *Copeia*, **1993**, 1993, 987	1.1	27
129	Metabolic Scope as a Proximate Constraint on Individual Behavioral Variation: Effects on Personality, Plasticity, and Predictability. *American Naturalist*, **2018**, 192, 142-154	3.7	27
128	Functional genomic architecture of predisposition to voluntary exercise in mice: expression QTL in the brain. *Genetics*, **2012**, 191, 643-54	4	26
127	Wheel-running activity and energy metabolism in relation to ambient temperature in mice selected for high wheel-running activity. *Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology*, **2007**, 177, 109-18	2.2	26
126	Mobility as an emergent property of biological organization: Insights from experimental evolution. *Evolutionary Anthropology*, **2016**, 25, 98-104	4.7	26
125	Circulating levels of endocannabinoids respond acutely to voluntary exercise, are altered in mice selectively bred for high voluntary wheel running, and differ between the sexes. *Physiology and Behavior*, **2017**, 170, 141-150	3.5	25
124	New multivariate tests for phylogenetic signal and trait correlations applied to ecophysiological phenotypes of nine Manglietia species. *Functional Ecology*, **2009**, 23, 1059-1069	5.6	25
123	Altered fibre types in gastrocnemius muscle of high wheel-running selected mice with mini-muscle phenotypes. *Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology*, **2008**, 149, 490-500	2.3	25
122	Revisiting a Key Innovation in Evolutionary Biology: Felsenstein's "Phylogenies and the Comparative Method". *American Naturalist*, **2019**, 193, 755-772	3.7	23

121	Effects of early-onset voluntary exercise on adult physical activity and associated phenotypes in mice. *Physiology and Behavior*, **2015**, 149, 279-86	3.5	23
120	Effects of leptin treatment and Western diet on wheel running in selectively bred high runner mice. *Physiology and Behavior*, **2012**, 106, 252-8	3.5	23
119	Behavioral traits are affected by selective breeding for increased wheel-running behavior in mice. *Behavior Genetics*, **2010**, 40, 542-50	3.2	23
118	Shape-shift: semicircular canal morphology responds to selective breeding for increased locomotor activity. *Evolution; International Journal of Organic Evolution*, **2014**, 68, 3184-98	3.8	22
117	Anatomic capillarization is elevated in the medial gastrocnemius muscle of mighty mini mice. *Journal of Applied Physiology*, **2009**, 106, 1660-7	3.7	22
116	Maternal exposure to Western diet affects adult body composition and voluntary wheel running in a genotype-specific manner in mice. *Physiology and Behavior*, **2017**, 179, 235-245	3.5	21
115	Locomotion, Energetics, Performance, and Behavior: A Mammalian Perspective on Lizards, and Vice Versa. *Integrative and Comparative Biology*, **2017**, 57, 252-266	2.8	21
114	Exercising for life? Energy metabolism, body composition, and longevity in mice exercising at different intensities. *Physiological and Biochemical Zoology*, **2010**, 83, 239-51	2	21
113	Testing Symmorphosis: Does Structure Match Functional Requirements?. *Evolution; International Journal of Organic Evolution*, **1987**, 41, 1404	3.8	21
112	Experimental EvolutionConcepts, Methods, and Applications of Selection Experiments **2009**,		21
111	High motivation for exercise is associated with altered chromatin regulators of monoamine receptor gene expression in the striatum of selectively bred mice. *Genes, Brain and Behavior*, **2017**, 16, 328-341	3.6	20
110	Why do placentas evolve? An evaluation of the life-history facilitation hypothesis in the fish genus Poeciliopsis. *Functional Ecology*, **2011**, 25, 757-768	5.6	20
109	Different effects of intensity and duration of locomotor activity on circadian period. *Journal of Biological Rhythms*, **2003**, 18, 491-501	3.2	20
108	Early-Life Effects on Adult Physical Activity: Concepts, Relevance, and Experimental Approaches. *Physiological and Biochemical Zoology*, **2017**, 90, 1-14	2	19
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