Theodore Garland Jr

List of Publications by Year in Descending Order

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	Trade-Offs (and Constraints) in Organismal Biology.. *Physiological and Biochemical Zoology*, **2022**, 95, 82-112	2	8
281	Oral antibiotics reduce voluntary exercise behavior in athletic mice.. *Behavioural Processes*, **2022**, 199, 104650	1.6	1
280	Evolutionary physiology at 30+: Has the promise been fulfilled?: Advances in Evolutionary Physiology. *BioEssays*, **2021**, 44, e2100167	4.1	1
279	Effects of Selective Breeding, Voluntary Exercise, and Sex on Endocannabinoid Levels in the Mouse Small-Intestinal Epithelium.. *Physiology and Behavior*, **2021**, 245, 113675	3.5	
278	Effects of early-life exposure to Western diet and voluntary exercise on adult activity levels, exercise physiology, and associated traits in selectively bred High Runner mice. *Physiology and Behavior*, **2021**, 234, 113389	3.5	5
277	Roles of KLF4 and AMPK in the inhibition of glycolysis by pulsatile shear stress in endothelial cells. *Proceedings of the National Academy of Sciences of the United States of America*, **2021**, 118,	11.5	7
276	Rapid and longer-term effects of selective breeding for voluntary exercise behavior on skeletal morphology in house mice. *Journal of Anatomy*, **2021**, 238, 720-742	2.9	3
275	Conditioned place preference for cocaine and methylphenidate in female mice from lines selectively bred for high voluntary wheel-running behavior. *Genes, Brain and Behavior*, **2021**, 20, e12700	3.6	0
274	Morphological evolution in relationship to sidewinding, arboreality and precipitation in snakes of the family Viperidae. *Biological Journal of the Linnean Society*, **2021**, 132, 328-345	1.9	0
273	Early-life effects of juvenile Western diet and exercise on adult gut microbiome composition in mice. *Journal of Experimental Biology*, **2021**, 224,	3	9
272	Cross-fostering selectively bred High Runner mice affects adult body mass but not voluntary exercise. *Physiology and Behavior*, **2021**, 241, 113569	3.5	1
271	Translating Preclinical Research for Exercise Oncology: Take It to the VO. *Frontiers in Oncology*, **2020**, 10, 575657	5.3	1
270	Universal metabolic constraints shape the evolutionary ecology of diving in animals. *Proceedings of the Royal Society B: Biological Sciences*, **2020**, 287, 20200488	4.4	12
269	Living on the edge: Glucocorticoid physiology in desert iguanas (Dipsosaurus dorsalis) is predicted by distance from an anthropogenic disturbance, body condition, and population density. *General and Comparative Endocrinology*, **2020**, 294, 113468	3	1
268	Coadaptation of the chemosensory system with voluntary exercise behavior in mice. *PLoS ONE*, **2020**, 15, e0241758	3.7	2
267	Long-Term Effects of Fatherhood on Morphology, Energetics, and Exercise Performance in California Mice (). *Physiological and Biochemical Zoology*, **2020**, 93, 75-86	2	2
266	Genetic Basis of Aerobically Supported Voluntary Exercise: Results from a Selection Experiment with House Mice. *Genetics*, **2020**, 216, 781-804	4	6

265	Phylogenetic analysis of maximal oxygen consumption during exercise (V Omax) and ecological correlates among lizard species. *Journal of Experimental Biology*, **2020**,	3	2
264	Ecophysiology of mammals. *Journal of Mammalogy*, **2019**, 100, 894-909	1.8	2
263	Effects of short- and long-term cold acclimation on morphology, physiology, and exercise performance of California mice (Peromyscus californicus): potential modulation by fatherhood. *Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology*, **2019**, 189, 471-487	2.2	5
262	Revisiting a Key Innovation in Evolutionary Biology: Felsenstein's "Phylogenies and the Comparative Method". *American Naturalist*, **2019**, 193, 755-772	3.7	23
261	An Introduction to Evolutionary Physiology, with an Example of Experimental Evolution. *FASEB Journal*, **2019**, 33, 204.1	0.9	
260	DNA methylation in AgRP neurons regulates voluntary exercise behavior in mice. *Nature Communications*, **2019**, 10, 5364	17.4	12
259	Electrocardiograms of mice selectively bred for high levels of voluntary exercise: Effects of short-term exercise training and the mini-muscle phenotype. *Physiology and Behavior*, **2019**, 199, 322-332	3.5	4
258	Exercise-induced loading increases ilium cortical area in a selectively bred mouse model. *American Journal of Physical Anthropology*, **2019**, 168, 543-551	2.5	4
257	I Smell a Mouse: Indirect Genetic Effects on Voluntary Wheel-Running Distance, Duration and Speed. *Behavior Genetics*, **2019**, 49, 49-59	3.2	6
256	Influence of corticosterone on growth, home-cage activity, wheel running, and aerobic capacity in house mice selectively bred for high voluntary wheel-running behavior. *Physiology and Behavior*, **2019**, 198, 27-41	3.5	15
255	Mitochondrial haplotypes are not associated with mice selectively bred for high voluntary wheel running. *Mitochondrion*, **2019**, 46, 134-139	4.9	2
254	Evolution of hindlimb bone dimensions and muscle masses in house mice selectively bred for high voluntary wheel-running behavior. *Journal of Morphology*, **2018**, 279, 766-779	1.6	9
253	Among-Individual Variation in Desert Iguanas (Squamata: Dipsosaurus dorsalis): Endurance Capacity Is Positively Related to Home Range Size. *Physiological and Biochemical Zoology*, **2018**, 91, 725-730	2	7
252	Brain region-dependent gene networks associated with selective breeding for increased voluntary wheel-running behavior. *PLoS ONE*, **2018**, 13, e0201773	3.7	4
251	Effects of selective breeding for high voluntary wheel-running behavior on femoral nutrient canal size and abundance in house mice. *Journal of Anatomy*, **2018**, 233, 193-203	2.9	7
250	Reply to Ruff, Warden, and Karlson. *American Journal of Physical Anthropology*, **2018**, 167, 190-193	2.5	1
249	Effects of a physical and energetic challenge on male California mice (): modulation by reproductive condition. *Journal of Experimental Biology*, **2018**, 221,	3	7
248	Selective Breeding and Exercise Affect Midbrain and PAG Volume. *FASEB Journal*, **2018**, 32, 599.1	0.9	

247	The Effect of Selective Breeding for High Voluntary Wheel-Running Behavior on Femoral Nutrient Canal Abundance and Size. *FASEB Journal*, **2018**, 32, 855.18	0.9	
246	Predicting the bending properties of long bones: Insights from an experimental mouse model. *American Journal of Physical Anthropology*, **2018**, 165, 457-470	2.5	5
245	Biological/Genetic Regulation of Physical Activity Level: Consensus from GenBioPAC. *Medicine and Science in Sports and Exercise*, **2018**, 50, 863-873	1.2	48
244	High-runner mice have reduced incentive salience for a sweet-taste reward when housed with wheel access. *Behavioural Processes*, **2018**, 146, 46-53	1.6	2
243	Skink ecomorphology: forelimb and hind limb lengths, but not static stability, correlate with habitat use and demonstrate multiple solutions. *Biological Journal of the Linnean Society*, **2018**,	1.9	2
242	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
241	Mice selectively bred for high voluntary wheel-running behavior conserve more fat despite increased exercise. *Physiology and Behavior*, **2018**, 194, 1-8	3.5	14
240	Effects of activity, genetic selection and their interaction on muscle metabolic capacities and organ masses in mice. *Journal of Experimental Biology*, **2017**, 220, 1038-1047	3	17
239	Metabolic and affective consequences of fatherhood in male California mice. *Physiology and Behavior*, **2017**, 177, 57-67	3.5	8
238	Early-Life Effects on Adult Physical Activity: Concepts, Relevance, and Experimental Approaches. *Physiological and Biochemical Zoology*, **2017**, 90, 1-14	2	19
237	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
236	Selective Breeding and Short-Term Access to a Running Wheel Alter Stride Characteristics in House Mice. *Physiological and Biochemical Zoology*, **2017**, 90, 533-545	2	7
235	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
234	Preference for Western diet coadapts in High Runner mice and affects voluntary exercise and spontaneous physical activity in a genotype-dependent manner. *Behavioural Processes*, **2017**, 135, 56-65	1.6	8
233	Caffeine stimulates voluntary wheel running in mice without increasing aerobic capacity. *Physiology and Behavior*, **2017**, 170, 133-140	3.5	18
232	Age-Related Changes in Locomotor Performance Reveal a Similar Pattern for Caenorhabditis elegans, Mus domesticus, Canis familiaris, Equus caballus, and Homo sapiens. *Journals of Gerontology - Series A Biological Sciences and Medical Sciences*, **2017**, 72, 455-463	6.4	19
231	Complex Reproductive Traits and Whole-Organism Performance. *Integrative and Comparative Biology*, **2017**, 57, 407-422	2.8	14
230	Ecological and phylogenetic variability in the spinalis muscle of snakes. *Journal of Evolutionary Biology*, **2017**, 30, 2031-2043	2.3	8

229	Contribution of citizen science to improve knowledge on marine biodiversity in the Gulf RegionPeer review under responsibility of University of Bahrain.View all notes. *Journal of the Association of Arab Universities for Basic and Applied Sciences*, **2017**, 24, 126-135		2
228	A Mixed Model Approach to Genome-Wide Association Studies for Selection Signatures, with Application to Mice Bred for Voluntary Exercise Behavior. *Genetics*, **2017**, 207, 785-799	4	12
227	Locomotion, Energetics, Performance, and Behavior: A Mammalian Perspective on Lizards, and Vice Versa. *Integrative and Comparative Biology*, **2017**, 57, 252-266	2.8	21
226	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
225	Consequences of Fatherhood in the Biparental California Mouse (Peromyscus californicus): Locomotor Performance, Metabolic Rate, and Organ Masses. *Physiological and Biochemical Zoology*, **2016**, 89, 130-40	2	11
224	Nature or Nurture? Heritability in the Classroom. *Physiological and Biochemical Zoology*, **2016**, 89, 457-461		
223	Acute Restraint Stress Alters Wheel-Running Behavior Immediately Following Stress and up to 20 Hours Later in House Mice. *Physiological and Biochemical Zoology*, **2016**, 89, 546-552	2	13
222	Serotonin-mediated central fatigue underlies increased endurance capacity in mice from lines selectively bred for high voluntary wheel running. *Physiology and Behavior*, **2016**, 161, 145-154	3.5	15
221	Hormones and the Evolution of Complex Traits: Insights from Artificial Selection on Behavior. *Integrative and Comparative Biology*, **2016**, 56, 207-24	2.8	49
220	R2d2 Drives Selfish Sweeps in the House Mouse. *Molecular Biology and Evolution*, **2016**, 33, 1381-95	8.3	39
219	Diet-induced obesity resistance of adult female mice selectively bred for increased wheel-running behavior is reversed by single perinatal exposure to a high-energy diet. *Physiology and Behavior*, **2016**, 157, 246-57	3.5	4
218	Comparison of Morphology and Bending Mechanics of Femora in Response to Chronic Exercise in Three Strains of Mice. *FASEB Journal*, **2016**, 30, 368.2	0.9	
217	Cerebellum Transcriptome of Mice Bred for High Voluntary Activity Offers Insights into Locomotor Control and Reward-Dependent Behaviors. *PLoS ONE*, **2016**, 11, e0167095	3.7	15
216	Limb segment contributions to the evolution of hind limb length in phrynosomatid lizards. *Biological Journal of the Linnean Society*, **2016**, 117, 775-795	1.9	8
215	Mobility as an emergent property of biological organization: Insights from experimental evolution. *Evolutionary Anthropology*, **2016**, 25, 98-104	4.7	26
214	A multi-megabase copy number gain causes maternal transmission ratio distortion on mouse chromosome 2. *PLoS Genetics*, **2015**, 11, e1004850	6	46
213	Genetic approaches in comparative and evolutionary physiology. *American Journal of Physiology - Regulatory Integrative and Comparative Physiology*, **2015**, 309, R197-214	3.2	32
212	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

211	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
210	Energetics and behavior: many paths to understanding. *Trends in Ecology and Evolution*, **2015**, 30, 365-6	10.9	14
209	Relationship between Maximal Oxygen Consumption (VO2max) and Home Range Area in Mammals. *Physiological and Biochemical Zoology*, **2015**, 88, 660-7	2	15
208	Vivid birds do not initiate flight sooner despite their potential conspicuousness. *Environmental Epigenetics*, **2015**, 61, 773-780	2.4	14
207	Speed and Endurance Do Not Trade Off in Phrynosomatid Lizards. *Physiological and Biochemical Zoology*, **2015**, 88, 634-47	2	17
206	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
205	Island tameness: living on islands reduces flight initiation distance. *Proceedings of the Royal Society B: Biological Sciences*, **2014**, 281, 20133019	4.4	70
204	Effects of early-life exposure to Western diet and wheel access on metabolic syndrome profiles in mice bred for high voluntary exercise. *Genes, Brain and Behavior*, **2014**, 13, 322-32	3.6	18
203	The evolution of the sexually selected sword in Xiphophorus does not compromise aerobic locomotor performance. *Evolution; International Journal of Organic Evolution*, **2014**, 68, 1806-23	3.8	12
202	Trade-offs. *Current Biology*, **2014**, 24, R60-R61	6.3	97
201	Swimming with a sword: tail beat kinematics in relation to sword length in Xiphophorus. *Functional Ecology*, **2014**, 28, 924-932	5.6	11
200	Phylogenetic Regression for Binary Dependent Variables **2014**, 231-261		55
199	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
198	Quantitative genomics of voluntary exercise in mice: transcriptional analysis and mapping of expression QTL in muscle. *Physiological Genomics*, **2014**, 46, 593-601	3.6	13
197	Exercise training effects on hypoxic and hypercapnic ventilatory responses in mice selected for increased voluntary wheel running. *Experimental Physiology*, **2014**, 99, 403-13	2.4	9
196	Myosin heavy chain isoform expression in adult and juvenile mini-muscle mice bred for high-voluntary wheel running. *Mechanisms of Development*, **2014**, 134, 16-30	1.7	19
195	Mice from lines selectively bred for high voluntary wheel running exhibit lower blood pressure during withdrawal from wheel access. *Physiology and Behavior*, **2013**, 112-113, 49-55	3.5	18
194	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

193	Phylogenetic analysis of mammalian maximal oxygen consumption during exercise. *Journal of Experimental Biology*, **2013**, 216, 4712-21	3	45
192	Evolutionary patterns in trace metal (cd and zn) efflux capacity in aquatic organisms. *Environmental Science & Technology*, **2013**, 47, 7989-95	10.3	31
191	Gene expression profiling of gastrocnemius of "minimuscle" mice. *Physiological Genomics*, **2013**, 45, 228-36	3.6	10
190	High-saturated fat-sucrose feeding affects lactation energetics in control mice and mice selectively bred for high wheel-running behavior. *American Journal of Physiology - Regulatory Integrative and Comparative Physiology*, **2013**, 305, R1433-40	3.2	4
189	Immune response to a Trichinella spiralis infection in house mice from lines selectively bred for high voluntary wheel running. *Journal of Experimental Biology*, **2013**, 216, 4212-21	3	12
188	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
187	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
186	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
185	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
184	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
183	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
182	Male superiority in spatial navigation: adaptation or side effect?. *Quarterly Review of Biology*, **2012**, 87, 289-313	5.4	36
181	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
180	The comparative biology of diving in two genera of European Dytiscidae (Coleoptera). *Journal of Evolutionary Biology*, **2012**, 25, 329-41	2.3	10
179	Developmental trait evolution in trilobites. *Evolution; International Journal of Organic Evolution*, **2012**, 66, 314-29	3.8	36
178	Within-lifetime trade-offs but evolutionary freedom for hormonal and immunological traits: evidence from mice bred for high voluntary exercise. *Journal of Experimental Biology*, **2012**, 215, 1651-61	3	11
177	Do mice bred selectively for high locomotor activity have a greater reliance on lipids to power submaximal aerobic exercise?. *American Journal of Physiology - Regulatory Integrative and Comparative Physiology*, **2012**, 303, R101-11	3.2	17
176	Performance, personality, and energetics: correlation, causation, and mechanism. *Physiological and Biochemical Zoology*, **2012**, 85, 543-71	2	283

175	As the sword grows: individual variation and ontogenetic effects of a sexually selected trait on locomotor performance in Xiphophorus hellerii. *Physiological and Biochemical Zoology*, **2012**, 85, 684-93	2	8
174	Functional genomic architecture of predisposition to voluntary exercise in mice: expression QTL in the brain. *Genetics*, **2012**, 191, 643-54	4	26
173	Genetics shift the angio-adaptive balance in skeletal muscle of mice selected for high running capacity. *FASEB Journal*, **2012**, 26, 1142.26	0.9	
172	Changes in semicircular canal morphology in response to selective breeding for high voluntary wheel running. *FASEB Journal*, **2012**, 26, 729.1	0.9	
171	Selective breeding of mice for high voluntary exercise alters adaptive plasticity of metabolic phenotypes in skeletal muscle. *FASEB Journal*, **2012**, 26, 886.1	0.9	
170	Reply to Heart Position in Snakes. *Physiological and Biochemical Zoology*, **2011**, 84, 102-106	2	3
169	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
168	Swimming performance trade-offs across a gradient in community composition in Trinidadian killifish (Rivulus hartii). *Ecology*, **2011**, 92, 170-9	4.6	46
167	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
166	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
165	Expression of angiogenic regulators and skeletal muscle capillarity in selectively bred high aerobic capacity mice. *Experimental Physiology*, **2011**, 96, 1138-50	2.4	18
164	Sex-specific heterosis in line crosses of mice selectively bred for high locomotor activity. *Behavior Genetics*, **2011**, 41, 615-24	3.2	11
163	Identification of quantitative trait loci influencing skeletal architecture in mice: emergence of Cdh11 as a primary candidate gene regulating femoral morphology. *Journal of Bone and Mineral Research*, **2011**, 26, 2174-83	6.3	18
162	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
161	Can rodent longevity studies be both short and powerful?. *Journals of Gerontology - Series A Biological Sciences and Medical Sciences*, **2011**, 66, 279-86	6.4	2
160	Exercise, weight loss, and changes in body composition in mice: phenotypic relationships and genetic architecture. *Physiological Genomics*, **2011**, 43, 199-212	3.6	38
159	Drift and genome complexity revisited. *PLoS Genetics*, **2011**, 7, e1002092	6	28
158	Is aquatic life correlated with an increased hematocrit in snakes?. *PLoS ONE*, **2011**, 6, e17077	3.7	11

157	Voluntary exercise, spontaneous physical activity, and food consumption in High Runner lines of mice. *FASEB Journal*, **2011**, 25, 1057.20	0.9	
156	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
155	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
154	QTL underlying voluntary exercise in mice: interactions with the "mini muscle" locus and sex. *Journal of Heredity*, **2010**, 101, 42-53	2.4	40
153	Erythropoietin elevates VO2,max but not voluntary wheel running in mice. *Journal of Experimental Biology*, **2010**, 213, 510-9	3	49
152	Phylogenetic logistic regression for binary dependent variables. *Systematic Biology*, **2010**, 59, 9-26	8.4	295
151	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
150	Did genetic drift drive increases in genome complexity?. *PLoS Genetics*, **2010**, 6, e1001080	6	91
149	Parent-of-origin effects on voluntary exercise levels and body composition in mice. *Physiological Genomics*, **2010**, 40, 111-20	3.6	17
148	Phylogeny, ecology, and heart position in snakes. *Physiological and Biochemical Zoology*, **2010**, 83, 43-54	2	53
147	Locomotion in response to shifting climate zones: not so fast. *Annual Review of Physiology*, **2010**, 72, 167-90	23.1	44
146	Dopaminergic dysregulation in mice selectively bred for excessive exercise or obesity. *Behavioural Brain Research*, **2010**, 210, 155-63	3.4	77
145	Effects of selective breeding for increased wheel-running behavior on circadian timing of substrate oxidation and ingestive behavior. *Physiology and Behavior*, **2010**, 99, 549-54	3.5	4
144	Genetic architecture of voluntary exercise in an advanced intercross line of mice. *Physiological Genomics*, **2010**, 42, 190-200	3.6	51
143	Behavioral traits are affected by selective breeding for increased wheel-running behavior in mice. *Behavior Genetics*, **2010**, 40, 542-50	3.2	23
142	Functional significance of genetic variation underlying limb bone diaphyseal structure. *American Journal of Physical Anthropology*, **2010**, 143, 21-30	2.5	39
141	Western diet increases wheel running in mice selectively bred for high voluntary wheel running. *FASEB Journal*, **2010**, 24, 805.2	0.9	
140	Effects of western diet and wheel access on lipid profiles in mice selectively bred for high voluntary wheel running. *FASEB Journal*, **2010**, 24, 1055.6	0.9	

139	Changes in efficiency and myosin expression in the small-muscle phenotype of mice selectively bred for high voluntary running activity. *Journal of Experimental Biology*, **2009**, 212, 977-85	3	11
138	Anatomic capillarization is elevated in the medial gastrocnemius muscle of mighty mini mice. *Journal of Applied Physiology*, **2009**, 106, 1660-7	3.7	22
137	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
136	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
135	Endurance capacity of mice selectively bred for high voluntary wheel running. *Journal of Experimental Biology*, **2009**, 212, 2908-17	3	75
134	Locomotor trade-offs in mice selectively bred for high voluntary wheel running. *Journal of Experimental Biology*, **2009**, 212, 2612-8	3	32
133	Reduction of type IIb myosin and IIB fibers in tibialis anterior muscle of mini-muscle mice from high-activity lines. *Journal of Experimental Zoology*, **2009**, 311, 189-98		14
132	Day-to-day variability in voluntary wheel running among genetically differentiated lines of mice that vary in activity level. *European Journal of Applied Physiology*, **2009**, 106, 613-9	3.4	12
131	Behavioral despair and home-cage activity in mice with chronically elevated baseline corticosterone concentrations. *Behavior Genetics*, **2009**, 39, 192-201	3.2	88
130	Epigenetic Effects on Integration of Limb Lengths in a Mouse Model: Selective Breeding for High Voluntary Locomotor Activity. *Evolutionary Biology*, **2009**, 36, 88	3	17
129	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
128	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
127	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
126	Lines of mice with chronically elevated baseline corticosterone levels are more susceptible to a parasitic nematode infection. *Zoology*, **2009**, 112, 316-24	1.7	17
125	Voluntary exercise and its effects on body composition depend on genetic selection history. *Obesity*, **2009**, 17, 1402-9	8	41
124	Why tropical forest lizards are vulnerable to climate warming. *Proceedings of the Royal Society B: Biological Sciences*, **2009**, 276, 1939-48	4.4	566
123	Experimental Evolution **2009**,		139
122	Experimental EvolutionConcepts, Methods, and Applications of Selection Experiments **2009**,		21

121	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
120	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
119	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
118	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
117	Protein synthesis and antioxidant capacity in aging mice: effects of long-term voluntary exercise. *Physiological and Biochemical Zoology*, **2008**, 81, 148-57	2	30
116	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
115	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
114	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
113	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
112	Selective breeding for a behavioral trait changes digit ratio. *PLoS ONE*, **2008**, 3, e3216	3.7	11
111	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
110	The relative importance of genetics and phenotypic plasticity in dictating bone morphology and mechanics in aged mice: evidence from an artificial selection experiment. *Zoology*, **2008**, 111, 135-47	1.7	19
109	Fiber capillarization is augmented in the gastrocnemius muscle of mighty mini-muscled mice. *FASEB Journal*, **2008**, 22, 757.18	0.9	
108	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
107	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
106	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
105	Leptin levels and body composition of mice selectively bred for high voluntary locomotor activity. *Physiological and Biochemical Zoology*, **2007**, 80, 568-79	2	42
104	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

103	Within-species variation and measurement error in phylogenetic comparative methods. *Systematic Biology*, **2007**, 56, 252-70	8.4	334
102	Relationships among running performance, aerobic physiology and organ mass in male Mongolian gerbils. *Journal of Experimental Biology*, **2007**, 210, 4179-97	3	62
101	Behavioural and physiological responses to increased foraging effort in male mice. *Journal of Experimental Biology*, **2007**, 210, 2013-24	3	51
100	Experimental evolution and phenotypic plasticity of hindlimb bones in high-activity house mice. *Journal of Morphology*, **2006**, 267, 360-74	1.6	74
99	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
98	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
97	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
96	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
95	Phenotypic plasticity and experimental evolution. *Journal of Experimental Biology*, **2006**, 209, 2344-61	3	220
94	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
93	Developmental regulation of skull morphology II: ontogenetic dynamics of covariance. *Evolution & Development*, **2006**, 8, 46-60	2.6	61
92	Sexual size dimorphism in a Drosophila clade, the D. obscura group. *Zoology*, **2006**, 109, 318-30	1.7	49
91	Artificial selection for increased maternal defense behavior in mice. *Behavior Genetics*, **2006**, 36, 713-22	3.2	31
90	Clostridial enteropathy in lactating outbred swiss-derived (ICR) mice. *Journal of the American Association for Laboratory Animal Science*, **2006**, 45, 80-7	1.3	10
89	Phylogenetic approaches in comparative physiology. *Journal of Experimental Biology*, **2005**, 208, 3015-35	3	526
88	Comparative effectiveness of Longworth and Sherman live traps. *Wildlife Society Bulletin*, **2005**, 33, 1018-1026	1.1	47
87	Muscle fiber-type variation in lizards (Squamata) and phylogenetic reconstruction of hypothesized ancestral states. *Journal of Experimental Biology*, **2005**, 208, 4529-47	3	41
86	Neurobiology of Mice Selected for High Voluntary Wheel-running Activity. *Integrative and Comparative Biology*, **2005**, 45, 438-55	2.8	156

85	SELECTIVE BREEDING FOR HIGH ENDURANCE RUNNING INCREASES HINDLIMB SYMMETRY. *Evolution; International Journal of Organic Evolution*, **2005**, 59, 1851-1854	3.8	54
84	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
83	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
82	SELECTIVE BREEDING FOR HIGH ENDURANCE RUNNING INCREASES HINDLIMB SYMMETRY. *Evolution; International Journal of Organic Evolution*, **2005**, 59, 1851	3.8	3
81	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
80	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
79	Selective breeding for high endurance running increases hindlimb symmetry. *Evolution; International Journal of Organic Evolution*, **2005**, 59, 1851-4	3.8	14
78	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
77	Voluntary running in deer mice: speed, distance, energy costs and temperature effects. *Journal of Experimental Biology*, **2004**, 207, 3839-54	3	77
76	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
75	Developmental regulation of skull morphology. I. Ontogenetic dynamics of variance. *Evolution & Development*, **2004**, 6, 194-206	2.6	100
74	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
73	Locomotor performance and social dominance in male Anolis cristatellus. *Animal Behaviour*, **2004**, 67, 37-47	2.8	169
72	Are Megabats Big?. *Journal of Mammalian Evolution*, **2004**, 11, 257-277	2.2	29
71	Opioid-mediated pain sensitivity in mice bred for high voluntary wheel running. *Physiology and Behavior*, **2004**, 83, 515-24	3.5	29
70	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
69	Patterns of brain activity associated with variation in voluntary wheel-running behavior. *Behavioral Neuroscience*, **2003**, 117, 1243-56	2.1	199
68	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

67	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
66	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
65	Food wasting by house mice: variation among individuals, families, and genetic lines. *Physiology and Behavior*, **2003**, 80, 375-83	3.5	43
64	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
63	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
62	TESTING FOR PHYLOGENETIC SIGNAL IN COMPARATIVE DATA: BEHAVIORAL TRAITS ARE MORE LABILE. *Evolution; International Journal of Organic Evolution*, **2003**, 57, 717	3.8	222
61	Different effects of intensity and duration of locomotor activity on circadian period. *Journal of Biological Rhythms*, **2003**, 18, 491-501	3.2	20
60	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
59	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	3.8	4
58	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
57	LIZARD HOME RANGES REVISITED: EFFECTS OF SEX, BODY SIZE, DIET, HABITAT, AND PHYLOGENY. *Ecology*, **2002**, 83, 1870-1885	4.6	136
56	Antioxidant gene expression in active and sedentary house mice (Mus domesticus) selected for high voluntary wheel-running behavior. *Genetics*, **2002**, 161, 1763-9	4	13
55	Limb and tail lengths in relation to substrate usage in Tropidurus lizards. *Journal of Morphology*, **2001**, 248, 151-64	1.6	88
54	Comparative analysis of fiber-type composition in the iliofibularis muscle of phrynosomatid lizards (Squamata). *Journal of Morphology*, **2001**, 250, 265-80	1.6	47
53	Open-field behavior of house mice selectively bred for high voluntary wheel-running. *Behavior Genetics*, **2001**, 31, 309-16	3.2	70
52	Diet, phylogeny, and basal metabolic rate in phyllostomid bats. *Zoology*, **2001**, 104, 49-58	1.7	71
51	A Generalized Permutation Model for the Analysis of Cross-Species Data. *Journal of Classification*, **2001**, 18, 109-127	1.2	50
50	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

49	The quantitative genetics of maximal and basal rates of oxygen consumption in mice. *Genetics*, **2001**, 159, 267-77	4	95
48	Phylogenetic comparison and artificial selection. *Advances in Experimental Medicine and Biology*, **2001**, 107-132	3.6	19
47	Nesting behavior of house mice (Mus domesticus) selected for increased wheel-running activity. *Behavior Genetics*, **2000**, 30, 85-94	3.2	32
46	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
45	Phylogenetic analysis of coadaptation in behavior, diet, and body size in the African antelope. *Behavioral Ecology*, **2000**, 11, 452-463	2.3	128
44	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
43	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
42	Polytomies and phylogenetically independent contrasts: examination of the bounded degrees of freedom approach. *Systematic Biology*, **1999**, 48, 547-58	8.4	113
41	An Introduction to Phylogenetically Based Statistical Methods, with a New Method for Confidence Intervals on Ancestral Values. *American Zoologist*, **1999**, 39, 374-388		488
40	Sprint performance of phrynosomatid lizards, measured on a high-speed treadmill, correlates with hindlimb length. *Journal of Zoology*, **1999**, 248, 255-265	2	146
39	Laboratory endurance capacity predicts variation in field locomotor behaviour among lizard species. *Animal Behaviour*, **1999**, 58, 77-83	2.8	77
38	Behaviour of house mice artificially selected for high levels of voluntary wheel running. *Animal Behaviour*, **1999**, 58, 1307-1318	2.8	117
37	Sprint performance of phrynosomatid lizards, measured on a high-speed treadmill, correlates with hindlimb length **1999**, 248, 255		3
36	Artificial selection for increased wheel-running behavior in house mice. *Behavior Genetics*, **1998**, 28, 227-37	3.2	291
35	Glucocorticoid response to forced exercise in laboratory house mice (Mus domesticus). *Physiology and Behavior*, **1998**, 63, 279-85	3.5	66
34	Predictors of avian and mammalian translocation success: reanalysis with phylogenetically independent contrasts. *Biological Conservation*, **1998**, 86, 243-255	6.2	194
33	Effects of branch length errors on the performance of phylogenetically independent contrasts. *Systematic Biology*, **1998**, 47, 654-72	8.4	203
32	Physiological Variation and Allometry in Western Whiptail Lizards (Cnemidophorus tigris) from a Transect across a Persistent Hybrid Zone. *Copeia*, **1998**, 1998, 1	1.1	17

31	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
30	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
29	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
28	Testing Hypotheses of Correlated Evolution Using Phylogenetically Independent Contrasts: Sensitivity to Deviations from Brownian Motion. *Systematic Biology*, **1996**, 45, 27-47	8.4	246
27	Locomotor Performance and Activity Energetics of Helodermatid Lizards. *Copeia*, **1995**, 1995, 577	1.1	17
26	The Evolution of Endothermy: Testing the Aerobic Capacity Model. *Evolution; International Journal of Organic Evolution*, **1995**, 49, 836	3.8	62
25	Maximal sprint speeds and muscle fiber composition of wild and laboratory house mice. *Physiology and Behavior*, **1995**, 58, 869-76	3.5	34
24	Evolution of Sprint Speed in Lacertid Lizards: Morphological, Physiological and Behavioral Covariation. *Evolution; International Journal of Organic Evolution*, **1995**, 49, 848	3.8	276
23	THE EVOLUTION OF ENDOTHERMY: TESTING THE AEROBIC CAPACITY MODEL. *Evolution; International Journal of Organic Evolution*, **1995**, 49, 836-847	3.8	186
22	Quantitative Genetics of Locomotor Speed and Endurance in the Lizard Lacerta vivipara. *Physiological Zoology*, **1995**, 68, 698-720		83
21	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
20	Chapter 11. Phylogenetic Analyses of Lizard Endurance Capacity in Relation to Body Size and Body Temperature **1994**, 237-260		40
19	Why Not to Do Two-Species Comparative Studies: Limitations on Inferring Adaptation. *Physiological Zoology*, **1994**, 67, 797-828		543
18	Quantitative Genetics of Scale Counts in the Garter Snake Thamnophis sirtalis. *Copeia*, **1993**, 1993, 987	1.1	27
17	Phylogenetic Analysis of Covariance by Computer Simulation. *Systematic Biology*, **1993**, 42, 265	8.4	93
16	Does metatarsal/femur ratio predict maximal running speed in cursorial mammals?. *Journal of Zoology*, **1993**, 229, 133-151	2	211
15	Procedures for the Analysis of Comparative Data Using Phylogenetically Independent Contrasts. *Systematic Biology*, **1992**, 41, 18	8.4	193
14	Rate tests for phenotypic evolution using phylogenetically independent contrasts. *American Naturalist*, **1992**, 140, 509-19	3.7	204

13	Individual variation in locomotor behavior and maximal oxygen consumption in mice. *Physiology and Behavior*, **1992**, 52, 97-104	3.5	76
12	PHYLOGENY AND COADAPTATION OF THERMAL PHYSIOLOGY IN LIZARDS: A REANALYSIS. *Evolution; International Journal of Organic Evolution*, **1991**, 45, 1969-1975	3.8	121
11	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
10	Locomotor performance of hatchling fence lizards (Sceloporus occidentalis): Quantitative genetics and morphometric correlates. *Evolutionary Ecology*, **1989**, 3, 240-252	1.8	123
9	Time Budgets, Thermoregulation, and Maximal Locomotor Performance: Are Reptiles Olympians or Boy Scouts?. *American Zoologist*, **1988**, 28, 927-938		126
8	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
7	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
6	TESTING SYMMORPHOSIS: DOES STRUCTURE MATCH FUNCTIONAL REQUIREMENTS?. *Evolution; International Journal of Organic Evolution*, **1987**, 41, 1404-1409	3.8	73
5	Testing Symmorphosis: Does Structure Match Functional Requirements?. *Evolution; International Journal of Organic Evolution*, **1987**, 41, 1404	3.8	21
4	Locomotory Capacities, Oxygen Consumption, and the Cost of Locomotion of the Shingle-Back Lizard (Trachydosaurus rugosus). *Physiological Zoology*, **1986**, 59, 523-531		55
3	Effects of a Full Stomach on Locomotory Performance of Juvenile Garter Snakes (Thamnophis elegans). *Copeia*, **1983**, 1983, 1092	1.1	74
2	Scaling the Ecological Cost of Transport to Body Mass in Terrestrial Mammals. *American Naturalist*, **1983**, 121, 571-587	3.7	209
1	Determinants of lizard escape performance: decision, motivation, ability, and opportunity287-321		14