# Kristi L Montooth

List of Publications by Year
in descending order



| 32 | 3,873 | 304743 | 414414 |
|---|---|---|---|
| papers | citations | 22 h-index | 32 g-index |

| 40 | 40 | 40 | 5230 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Evolution of genes and genomes on the Drosophila phylogeny. Nature, 2007, 450, 203-218. | 27.8 | 1,886 |
| 2 | Positive and negative selection on the mitochondrial genome. Trends in Genetics, 2007, 23, 259-263. | 6.7 | 299 |
| 3 | An Incompatibility between a Mitochondrial tRNA and Its Nuclear-Encoded tRNA Synthetase Compromises Development and Fitness in Drosophila. PLoS Genetics, 2013, 9, e1003238. | 3.5 | 239 |
| 4 | Conditional tradeoffs between aging and organismal performance of Indy long-lived mutant flies. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 3369-3373. | 7.1 | 186 |
| 5 | Pleiotropic Effects of a Mitochondrialâ€“Nuclear Incompatibility Depend upon the Accelerating Effect of Temperature in Drosophila. Genetics, 2013, 195, 1129-1139. | 2.9 | 110 |
| 6 | Mapping Determinants of Variation in Energy Metabolism, Respiration and Flight in Drosophila. Genetics, 2003, 165, 623-635. | 2.9 | 106 |
| 7 | MITOCHONDRIAL-NUCLEAR EPISTASIS AFFECTS FITNESS WITHIN SPECIES BUT DOES NOT CONTRIBUTE TO FIXED INCOMPATIBILITIES BETWEEN SPECIES OF DROSOPHILA. Evolution; International Journal of Organic Evolution, 2010, 64, 3364-3379. | 2.3 | 105 |
| 8 | A role for triglyceride lipase brummer in the regulation of sex differences in Drosophila fat storage and breakdown. PLoS Biology, 2020, 18, e3000595. | 5.6 | 75 |
| 9 | IN A VARIABLE THERMAL ENVIRONMENT SELECTION FAVORS GREATER PLASTICITY OF CELL MEMBRANES IN DROSOPHILA MELANOGASTER. Evolution; International Journal of Organic Evolution, 2012, 66, 1976-1984. | 2.3 | 60 |
| 10 | Comparative Genomics of Drosophila mtDNA: Novel Features of Conservation and Change Across Functional Domains and Lineages. Journal of Molecular Evolution, 2009, 69, 94-114. | 1.8 | 56 |
| 11 | Evolution of genome structure in theDrosophila simulansspecies complex. Genome Research, 2021, 31, 380-396. | 5.5 | 55 |
| 12 | Similar Efficacies of Selection Shape Mitochondrial and Nuclear Genes in BothDrosophila melanogasterandHomo sapiens. G3: Genes, Genomes, Genetics, 2015, 5, 2165-2176. | 1.8 | 54 |
| 13 | Physical bioenergetics: Energy fluxes, budgets, and constraints in cells. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, . | 7.1 | 52 |
| 14 | Membrane lipid physiology and toxin catabolism underlie ethanol and acetic acid tolerance in Drosophila melanogaster. Journal of Experimental Biology, 2006, 209, 3837-3850. | 1.7 | 50 |
| 15 | Thermal adaptation of cellular membranes in natural populations of Drosophila melanogaster. Functional Ecology, 2014, 28, 886-894. | 3.6 | 50 |
| 16 | Inducing extra copies of the Hsp70 gene in Drosophila melanogaster increases energetic demand. BMC Evolutionary Biology, 2013, 13, 68. | 3.2 | 49 |
| 17 | The Spectrum of Mitochondrial Mutation Differs across Species. PLoS Biology, 2008, 6, e213. | 5.6 | 48 |
| 18 | The Roles of Compensatory Evolution and Constraint in Aminoacyl tRNA Synthetase Evolution. Molecular Biology and Evolution, 2016, 33, 152-161. | 8.9 | 45 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Incompatibility between mitochondrial and nuclear genomes during oogenesis results in ovarian failure and embryonic lethality. Development (Cambridge), 2017, 144, 2490-2503. | 2.5 | 38 |
| 20 | Maternal loading of a small heat shock protein increases embryo thermal tolerance inDrosophila melanogaster. Journal of Experimental Biology, 2017, 220, 4492-4501. | 1.7 | 38 |
| 21 | Profiling and quantification of Drosophila melanogaster lipids using liquid chromatography/mass spectrometry. Rapid Communications in Mass Spectrometry, 2011, 25, 2959-2968. | 1.5 | 37 |
| 22 | Mitochondrial Dysfunction and Infection Generate Immunityâ€“Fecundity Tradeoffs in Drosophila. Integrative and Comparative Biology, 2018, 58, 591-603. | 2.0 | 34 |
| 23 | Lactate dehydrogenase and glycerol-3-phosphate dehydrogenase cooperatively regulate growth and carbohydrate metabolism during Drosophila melanogaster larval development. Development (Cambridge), 2019, 146, . | 2.5 | 28 |
| 24 | Genetic Variation for Ontogenetic Shifts in Metabolism Underlies Physiological Homeostasis in Drosophila. Genetics, 2019, 212, 537-552. | 2.9 | 26 |
| 25 | Experimental test and refutation of a classic case of molecular adaptation in Drosophila melanogaster. Nature Ecology and Evolution, 2017, 1, 25. | 7.8 | 24 |
| 26 | Temperature-Sensitive Reproduction and the Physiological and Evolutionary Potential for Motherâ€™s Curse. Integrative and Comparative Biology, 2019, 59, 890-899. | 2.0 | 22 |
| 27 | Energy demand and the context-dependent effects of genetic interactions underlying metabolism. Evolution Letters, 2018, 2, 102-113. | 3.3 | 20 |
| 28 | Beyond the Powerhouse: Integrating Mitonuclear Evolution, Physiology, and Theory in Comparative Biology. Integrative and Comparative Biology, 2019, 59, 856-863. | 2.0 | 17 |
| 29 | Cuticular pheromones and water balance in the house fly, Musca domestica. Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology, 2003, 135, 457-465. | 1.8 | 15 |
| 30 | Predicting Performance and Plasticity in the Development of Respiratory Structures and Metabolic Systems. Integrative and Comparative Biology, 2014, 54, 307-322. | 2.0 | 13 |
| 31 | Mortality from desiccation contributes to a genotype-by-temperature interaction for cold survival in Drosophila melanogaster. Journal of Experimental Biology, 2012, 216, 1174-82. | 1.7 | 11 |
| 32 | Phenotypic Variation in Mitochondria-Related Performance Traits Across New Zealand Snail Populations. Integrative and Comparative Biology, 2020, 60, 275-287. | 2.0 | 8 |