

SUSAN L. PERKINS
ASSISTANT CURATOR AND ASSISTANT CURATOR
DIVISION OF INVERTEBRATE ZOOLOGY

HIGHEST DEGREE EARNED

Ph.D.

AREA OF SPECIALIZATION

Evolution, biogeography, and genomics of parasites

EDUCATIONAL EXPERIENCE

Ph.D. in Biology (Ecology and Evolution), University of Vermont, 2000

Department of Zoology, University of Maryland at College Park, 1993 - 1995

B. A. in Biology, State University of New York at Potsdam, 1993, *Summa Cum Laude*

PREVIOUS EXPERIENCE IN DOCTORAL EDUCATION

FACULTY APPOINTMENTS

Assistant Professor, University of Colorado, Boulder, Ecology and Evolutionary Biology,
2001-2004

COURSES TAUGHT

Seminar in Eukaryotic Microbial Evolution, University of Colorado, 2001.

Microbiology, University of Colorado, 2002, 2003

Evolution of Infectious Disease, University of Colorado, 2003

Coevolution, University of Colorado, 2003

Museum Seminar Series, AMNH, 2008-2009

GRADUATE ADVISEES

Bryan Falk, Richard Gilder Graduate School, present

Matthew Bealor, University of Colorado, co-advisor, present

Antoinette Piaggio, University of Colorado, 2004

GRADUATE COMMITTEES

Elizabeth Borda, CUNY, 2004-2008

Megan Harrison, CUNY, 2004-2008

Lauren Esposito, CUNY, 2007-present

Anna Phillips, CUNY, 2008-present

Alejandro Ocegüera-Figueroa, CUNY, 2008-present

Sandeep Kishore, Cornell Medical School, 2008-present

+ 17 others at University of Colorado

RECENT ARTICLES IN REFEREED JOURNALS (2003-2008)

Perkins, S.L., and C.C. Austin. Four new species of *Plasmodium* from New Guinea

- lizards: integrating morphology and molecules. *Journal of Parasitology*. In press.
- Piaggio, A, Neubaum M, Yueh H, Ritland, C, Johnston J, Perkins, S. 2008. Development of 10 polymorphic microsatellite loci isolated from the mountain beaver, *Aplodontia rufa rufa* (Rafinesque). *Molecular Ecology Resources* In press.
- Perkins SL. 2008. Molecular systematics of the three mitochondrial protein-coding genes of malaria parasites: Corroborative and new evidence for the origins of human malaria. *Mitochondrial DNA* In press.
- Beadell JS, Covas R, Gebhard C, Ishtiaq F, Melo M, Schmidt BK, Perkins SL, Graves GR, Fleischer RC. 2008. Host associations and evolutionary relationships of avian blood parasites from West Africa. *International Journal for Parasitology*. Epub.
- Piaggio A.J., K. E. G. Miller, M. Matocq, and S. L. Perkins. Eight polymorphic microsatellite loci developed and characterized from Townsend's big-eared bat, *Corynorhinus townsendii*. *Molecular Ecology Resources*. In press.
- Baillie, G. J., S. O. Kolokotronis, E. Waltari, J. G. Maffei, L. D. Kramer, and S. L. Perkins. 2008. Phylogenetic and evolutionary analyses of St. Louis encephalitis virus genomes. *Molecular Phylogenetics and Evolution* **47**:717-728.
- Davalos, L. M. and S. L. Perkins. 2008. Saturation and base composition bias explain phylogenomic conflict in *Plasmodium*. *Genomics* **91**: 433-442.
- E. S. Martinsen, S. L. Perkins, and J. J. Schall. 2008. A three-genome phylogeny of Malaria parasites. *Molecular Phylogenetics and Evolution* **47**: 261-273.
- Piaggio, A. J., J. J. Johnston, and S. L. Perkins. 2008. Development of polymorphic microsatellite loci for the common vampire bat, *Desmodus rotundus* (Chiroptera: Phyllostomidae). *Molecular Ecology Resources* 8: 440-442.
- Olival, K. J., E. O. Stiner, and S. L. Perkins. 2007. Detection of *Hepatocystis sp.* in Southeast Asian flying foxes (Pteropodidae) using microscopic and molecular methods. *Journal of Parasitology*. 93: 1538-1540.
- S. L. Perkins, A. Rothschild, and E. Waltari. 2007. Infections of the malaria parasite, *Plasmodium floridense*, in the invasive anole, *Anolis sagrei*, in Florida. *Journal of Herpetology* **41**: 750-754.
- R. L. Burke, S. R. Goldberg, C. R. Bursey, S. L. Perkins, and P. T. Andreadis. 2007. Depauperate parasite fauna in introduced populations of *Podarcis* (Squamata: Lacertidae) lizards in North America. *Journal of Herpetology*. 41: 755-757.
- Waltari, E., R. J. Hijmans, A. Townsend Peterson, A. S. Nyári, S. L. Perkins, and R. P. Guralnick. 2007. Locating Pleistocene refugia: comparing phylogeographic and ecological niche model predictions. *PLoS ONE*. 2:e563.
- S. L. Perkins, I. N. Sarkar, and R. Carter. 2007. The phylogeny of rodent malaria parasites: simultaneous analysis across three genomes. *Infection, Genetics, and Evolution*. **7**:74-83.
- C. C. Austin and S. L. Perkins. 2006. Parasites in a biodiversity hotspot: a survey of hematozoa and a molecular phylogenetic analysis of *Plasmodium* in New Guinea skinks. *Journal of Parasitology*. **92**:770-777.
- Charleston, M.A. and S.L. Perkins. 2005. Traversing the tangle: algorithms and applications for cophylogeny studies. *Journal of Biomedical Informatics* 39:62-71.

- Perkins, S. L., Budinoff, R. B., and Siddall, M. E. 2005. New gammaproteobacteria associated with bloodfeeding leeches and a broad phylogenetic analysis of leech endosymbionts. *Applied Environmental Microbiology*, 71: 5219-5224.
- Guralnick, R. P., E. Hall, and S. L. Perkins. 2004. A comparative approach to understanding causes and consequences of mollusc-digenean size relationships: A case study with Allocreadiid trematodes and *Cyclocalyx* clams. *Journal of Parasitology* 90:1253-1262
- Siddall, M. E., S. L. Perkins, and S. S. Desser. 2004. Leech mycetome symbionts are a new lineage of α -proteobacteria related to the Rhizobiaceae. *Molecular Phylogenetics and Evolution* 30:178-186.
- Charleston, M. A., and S. L. Perkins. 2003. Lizards, malaria, and jungles in the Caribbean. In *Tangled Trees: Phylogeny, Cospeciation and Coevolution* (Page, R. D. M., ed.) Chicago: University of Chicago.
- Siddall, M. E., and S. L. Perkins. 2003. Brooks parsimony analysis: a valiant failure. *Cladistics* 19:554-564.