

Polly Campbell

Curriculum Vitae

Associate Professor Department of Evolution, Ecology, & Organismal Biology University of California Riverside https://www.campbelllab.net/ http://bit.ly/CampbellGoogleScholar	3378 Spieth Hall Riverside, CA 92521 Office: (951) 827-6111 polly.campbell@ucr.edu
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PROFESSIONAL APPOINTMENTS

07/2021 – present, Associate Professor. Department of Evolution, Ecology & Organismal Biology, University of California Riverside, Riverside, CA.

01/2019 – 06/2021, Assistant Professor. Department of Evolution, Ecology & Organismal Biology, University of California Riverside, Riverside, CA.

07/2013 – 12/2018, Assistant Professor. Department of Integrative Biology, Oklahoma State University, Stillwater, OK.

2009 – 2013, Postdoctoral Fellow. Department of Ecology and Evolutionary Biology, University of Arizona, Tucson, AZ. Advisor: Michael Nachman.

2006 – 2009, Postdoctoral Fellow. Department of Biology, University of Florida, Gainesville, FL. Advisor: Steven Phelps.

EDUCATION

2006, PhD, Ecology and Evolution. Boston University, Boston, MA.
 Advisors: Thomas Kunz and Christopher Schneider
 Dissertation title: Evolution and ecology of Southeast Asian fruit bats in the genus, *Cynopterus* (Chiroptera: Pteropodidae)

2000, BS, Biology *cum laude*. University of New Mexico, Albuquerque, NM.

CURRENT FUNDING

2022 – 2026 NSF-DEB Award No. Collaborative Research: Beyond sex determination: the evolution and function of Y chromosomes. PI with co-PIs MB Couger and SW Roy.

PRIOR GRANTS AND FELLOWSHIPS

2016 – 2021 NSF-IOS Award No. 1558109. Epigenetic Effects on Brain and Behavior: Testing the Role of Imprinted Genes. PI

2009 – 2013 G. G. Simpson Postdoctoral Fellowship, University of Arizona

2007 – 2009 Ruth L. Kirschstein NRSA Postdoctoral Fellowship, NIH

2005 National Geographic Society, Committee for Research and Exploration grant

2002 American Society of Mammalogists, Grants-in-Aid of Research
 Sigma Xi, Grants-in-Aid of Research
 National Geographic Society, Committee for Research and Exploration grant

- 2001** American Society of Mammalogists, Grants-in-Aid of Research
Sigma Xi, Grants-in-Aid of Research
Disney Wildlife Conservation Fund

AWARDS

- 2017** Margaret S. Ewing Award for Dedication to Mentorship, Oklahoma State University Zoology Graduate Student Society
- 2016** Faculty Travel Award, Oklahoma State University
- 2014** Summer Salary Award, Oklahoma State University
Faculty Travel Award; Oklahoma State University
- 2004** Lubee Bat Conservancy Award for Outstanding Oral Paper, North American Symposium on Bat Research
- 2002** B. Elizabeth Horner Award, American Society of Mammalogists
- 1999** Undergraduate Conference Award, University of New Mexico
- 1998** Undergraduate Conference Award, University of New Mexico

SELECTED PUBLICATIONS (8/38)

*Denotes Campbell Lab member

Couger, MB, SW Roy, N Anderson, L Gozashti, S Pirro, LS Millward, M Kim, D Kilburn, KJ Liu, TM Wilson, CW Epps, L Dizney, LA Ruedas, **P Campbell**. 2021. Sex chromosome transformation and the origin of a male-specific X chromosome in the creeping vole. *Science*, 372: 592-600.

Arévalo*, L, SA Gardner*, and **P Campbell**. 2021. Haldane's rule in the placenta: sex-biased misregulation of the *Kcnq1* imprinting cluster in hybrid mice. *Evolution*, 75: 86-100.

Arévalo*, L, and **P Campbell**. 2020. Placental effects on maternal brain revealed by disrupted placental gene expression in mouse hybrids. *Proceedings of the Royal Society B*, 287: 20192563.

Campbell, P, L Arévalo*, H Martin*, C Chen, S Sun, AH Rowe, MS Webster, JB Searle, and B Pasch. 2019. Vocal divergence is concordant with genomic evidence for strong reproductive isolation in grasshopper mice (*Onychomys*). *Ecology and Evolution* 9: 12886-12896.

Gardner*, S, JL Grindstaff, and **P Campbell**. 2019. Placental genotype affects pre- and early postpartum maternal behaviour. *Royal Society Open Science* 6: 190732.

Couger MB, L Arévalo*, and **P Campbell**. 2018. A high quality genome for *Mus spicilegus*, a close relative of house mice with unique social and ecological adaptations. *Genes/Genomes/Genetics* 8: 2145-2152.

Campbell, P, JM Good, and MW Nachman. 2013. Meiotic sex chromosome inactivation is disrupted in sterile hybrid male house mice. *Genetics* 193: 819-828. [Highlighted by Faculty of 1000 Biology]

Campbell, P, JM Good, MD Dean, PK Tucker, and MW Nachman. 2012. The contribution of the Y chromosome to hybrid male sterility in house mice. *Genetics* 191: 1271-1281.

INVITED TALKS

- 2023** Sex chromosome evolution in voles. Genetics and Genomics Seminar Series, Department of Biology, Texas A&M University, College Station, TX. April 2023.
- 2022** Sex chromosomes and conflict. The American Genetic Association President's Symposium: Selfish Evolution. Bainbridge Island, WA. July 2022.
- Decoupling sex and sex chromosome constitution in a mammal. Distinguished Speaker Seminar Series, Stem Cell Biology and Regenerative Medicine, University of Southern California, virtual. February 2022.
- 2021** Placental effects on maternal brain and behavior. Neuroscience Graduate Program Seminar, University of California Riverside, virtual. January 2021.
- Sex chromosome evolution in voles. Department of Biology, University of Maryland College Park, virtual. March 2021.
- 2020** Sex chromosome evolution in voles. Department of Biology, Portland State University, Portland, OR. February 2020.
- 2019** Placental effects on maternal brain and behavior. Molecular and Computational Biology Colloquium, University of Southern California, Los Angeles, CA. November 2019.
- Placental effects on maternal brain and behavior. Division of Biological Sciences, University of Montana, Missoula, MT. October 2019.
- Placental effects on maternal brain and behavior. Department of Earth and Biological Sciences, Loma Linda University, Loma Linda, CA. April 2019.
- 2018** Brain-placenta interactions: communication at the molecular level. UT Center for Brain, Behavior & Evolution Spring Symposium: Behavioral Epigenetics. University of Texas, Austin, TX. May 2018.
- From premating isolation to placenta-brain interactions: communication at the molecular level. Department of Evolution, Ecology & Organismal Biology, University of California, Riverside, CA. January 2018.
- 2017** Speciation in mice. Department of Microbiology and Molecular Genetics, Oklahoma State University, Stillwater, OK. April 2017.
- Premating isolation and unstudied hybrid phenotypes in mice. Department of Genetics, University of Georgia, Athens, GA. March 2017.
- 2016** Speciation, premating isolation, and hybridization in mice. Department of Biological Sciences, Northern Arizona University, Flagstaff, AZ. October 2016.
- 2014** Sex chromosomes and speciation in mice. Department of Biology, University of Oklahoma, Norman, OK. December 2014.
- 2012** Sex chromosomes, gene regulation and speciation in house mice. Department of Zoology, Oklahoma State University, Stillwater, OK. December 2012.
- Sex chromosomes, gene regulation and speciation in house mice. Biological, Earth and Environmental Sciences, University of New South Wales, Sydney, Australia. August 2012.

Gene regulation and reproductive isolation in house mice. Department of Genetics. North Carolina State University, Raleigh, NC. May 2012.

2009 Vocal variation in singing mice: Geography, genes and brains. Department of Ecology and Evolutionary Biology, University of Arizona, Tucson, AZ. April 2009.

PROFESSIONAL SERVICE

Ad hoc grant review: Agence Nationale de la Recherche, American Society of University Women, Deutsche Forschungsgemeinschaft, NSF, United States-Israel Binational Science Foundation

Panel review: NSF DEB, Evolutionary Processes; NSF IOS, Behavioral Systems

Peer review (selected): *Brain, Behavior and Evolution, Chromosome Research, Epigenetics, Evolution, Evolutionary Ecology, Genetics, Heredity, Journal of Comparative Neurology, Journal of Mammalogy, Molecular Biology and Evolution, Molecular Ecology, Nature Communications, Oikos, Proceedings of the National Academy of Sciences USA, Proceedings of the Royal Society London B*

Editorial: Associate Editor, *Royal Society Open Science* (2020 – current); Associate Editor, *G3, Genome Reports* (2023 – current)

Judge: WD Hamilton Award (Society for the Study of Evolution); Louise Stokes Alliance for Minority Participation Research Symposium, Karen L. Smith Undergraduate Research Symposium, Microbiology and Molecular Genetics Graduate Student Association Research Symposium (Oklahoma State University)