

LESLIE M. TURNER

Milner Centre for Evolution
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EDUCATION

2007 Ph.D. in Biology, University of California, San Diego
2000 M.A. in Biological Anthropology and Anatomy, Duke University
1997 A.B. in Biology (*summa cum laude*), Barnard College, Columbia University

APPOINTMENTS

2016- Lecturer, Milner Centre for Evolution
Department of Biology and Biochemistry, University of Bath
2016 Heisenberg Research Fellow, German Research Foundation (DFG)
2013-2016 Visiting Researcher
Department of Evolutionary Genetics, Max Planck Institute for Evolutionary Biology
2010-2013 Postdoctoral Fellow, NIH Genomic Sciences Training Program (2010-2012)
Laboratory of Genetics, University of Wisconsin – Madison
Advisor: Dr. Bret Payseur
2008-2010 Postdoctoral Researcher
Department of Evolutionary Genetics, Max Planck Institute for Evolutionary Biology
Advisor: Dr. Diethard Tautz
2007-2008 Postdoctoral Researcher
Museum of Comparative Zoology and Department of Organismic and Evolutionary Biology,
Harvard University
Advisor: Dr. Hopi Hoekstra
2000-2002 Scientist, Molecular Biology
Cell Therapeutics, Inc., Seattle, Washington

FELLOWSHIPS AND GRANTS

2016-2019 German Research Foundation (DFG) Grant (€429,700) “Genetic mechanisms of hybrid sterility in house mice”
2016 Heisenberg Fellowship, German Research Foundation (DFG)
2010-2012 NIH Genomic Sciences Training Program Postdoctoral Fellowship, University of Wisconsin
2006-2007 National Science Foundation, “Dissertation Research: Evolution of reproductive proteins in *Peromyscus*” (Co-PI Dr. Hopi Hoekstra, \$11,985)
1998-2005 Howard Hughes Medical Institute Predoctoral Fellowship in Biological Science
2004 Mildred Mathias Graduate Student Research Grant, University of California (\$2,500)
2003 Grant-in-aid of Research, American Society of Mammalogists (\$1,500)
1998 National Science Foundation Predoctoral Fellowship (declined)
1998 Tinker Field Research Grant, Duke University (\$1,500)
1998 Center for International Studies Field Research Grant, Duke University (\$2,500)
1997 Grace Potter Rice Fellowship for Graduate Study, Barnard College
1996 Summer Research Grant, Barnard College (\$1,200)

AWARDS AND HONORS

- 2013 Postdoctoral Presenter Travel Award, Complex Trait Community Meeting
 2008 Postdoctoral Travel Award, *Society of Molecular Biology and Evolution* Meeting
 2006 Student Travel Award, Genetics of Speciation Symposium, *American Genetics Association*
 2005 Best Poster, Gordon Research Conference, Fertilization and the Activation of Development
 2003 Elizabeth Horner Award (best proposal of 81 submissions), *American Society of Mammalogists*
 1997 Spiera Family Prize (most promising Biology graduate), Barnard College
 1997 Distinction on the Senior Requirement, Barnard College
 1996 *Phi Beta Kappa* Honor Society, Barnard College

PUBLICATIONS

- Pallares LF, **Turner LM**, Tautz D. 2016. Craniofacial shape transition across the house mouse hybrid zone: implications for the genetic architecture and evolution of between-species differences. *Development Genes and Evolution* 226(3): 173-186.
- Wang J, Kalyan S, Steck N, **Turner LM**, Harr B, Künzel S, Häsler R, Franke A, Grassl GA, Kabelitz D, Baines JF. 2015. Analysis of the intestinal microbiota of hybrid house mice reveals evolutionary divergence in a vertebrate hologenome. *Nature Communications* 6:6440.
- Pallares LF, Harr B, **Turner LM**, Tautz D. 2014. Use of a natural hybrid zone for genome-wide association mapping of craniofacial traits in the house mouse. *Molecular Ecology* 23(3): 5756-5770.
- Turner LM**, Harr B. 2014. Genome-wide mapping in a house mouse hybrid zone reveals hybrid sterility loci and Dobzhansky-Muller interactions. *eLIFE* 2014;3:e02504. (Highlighted in eLIFE Insight)
- Turner LM**, White MA, Tautz D, Payseur BA. 2014. Genomic networks of hybrid sterility. *PLoS Genetics* 10(2): e1004162. (Selected by F1000)
- Turner LM**, Schwahn DJ, Harr B. 2012. Reduced male fertility is common but highly variable in form and severity in a natural house mouse hybrid zone. *Evolution* 66 (2): 443-458.
- Harr B, **Turner LM**. 2010. Genome-wide analysis of alternative splicing evolution among *Mus* subspecies. *Molecular Ecology* 19 (S1): 228-239.
- Turner LM**, Young AR, Römpler H, Schöneberg T, Phelps SM, Hoekstra HE. 2010. Monogamy evolves through multiple mechanisms: Evidence from V1aR in deer mice. *Molecular Biology and Evolution* 27 (6): 1269-1278.
- Woodruff DS, **Turner LM**. 2009. The Indochinese-Sundaic zoogeographic transition: a description and analysis of terrestrial mammal species distributions. *Journal of Biogeography* 36 (5): 803-821.
- Turner LM**, Chuong EB, Hoekstra HE. 2008. Comparative analysis of testis protein evolution in rodents. *Genetics* 179 (4): 2075-2089.
- Turner LM**, Hoekstra HE. 2008. Causes and consequences of the evolution of reproductive proteins. *International Journal of Developmental Biology* 52 (5): 769-780.
- Turner LM**, Hoekstra HE. 2008. Reproductive protein evolution within and between species: Maintenance of divergent ZP3 alleles in *Peromyscus*. *Molecular Ecology* 17 (11): 2616-2628.
- Turner LM**, Hoekstra HE. 2006. Adaptive evolution of fertilization proteins within a genus: Variation in ZP2 and ZP3 in deer mice (*Peromyscus*). *Molecular Biology and Evolution* 23 (9): 1656-1669.
- Howard LL, **Turner LM**, Stalis IH, Morris PJ. 2005. Serum gamma-glutamyltransferase as a prognostic indicator of neonatal viability in nondomestic ruminants. *Journal of Zoo and Wildlife Medicine* 36: 239-244.

TEACHING EXPERIENCE

- 2014-2015 Evolutionary Biology Classics Seminar, Max Planck Institute for Evolutionary Biology
- 2006 Teaching Assistant, Population Genetics
Division of Biological Sciences, University of California, San Diego
- 2005 Teaching Assistant, Evolution
Guest lecture, Evolution
Division of Biological Sciences, University of California, San Diego
- 2004 Teaching Assistant, Behavioral Ecology
Division of Biological Sciences, University of California, San Diego
- 1998 Teaching Assistant, Introduction to Physical Anthropology
Biological Anthropology and Anatomy Department, Duke University
- 1996 Teaching Assistant, Introductory Biology Laboratory
Biology Department, Barnard College

FIELD RESEARCH EXPERIENCE

- 2008 Southern Germany – small mammal trapping
- 2003-2004 Northern and southern California - small mammal trapping
- 1999 Costa Rica - behavioral observations and capture of primates
- 1998 Bolivia - behavioral observations, collection of fecal samples from primates
- 1998 Uganda - collection of fecal samples from primates

ADDITIONAL LABORATORY RESEARCH EXPERIENCE

- 2002 Abramson Cancer Center, University of Pennsylvania
Inhibition of mouse ROCK1 and ROCK2 using RNAi (Dr. Michael Olson's laboratory)
- 2000-2002 Cell Therapeutics, Inc., Seattle, Washington
Molecular biology of cancer (mammalian cell culture, Southern/northern/western blots, *in situ* hybridization)

PROFESSIONAL SERVICE AND OUTREACH

- Darwin Day booth, University of Wisconsin-Madison (2013)
- Judge, Hamilton Awards, Evolution meeting (2010-2011)
- Mentor, Undergraduate Diversity Program, Society for Molecular Biology and Evolution (2009)
- Admissions committee, University of California, San Diego (2004)
- Recruitment committee, University of California, San Diego (2003)
- Mentor, Upward Bound Math and Science Program (2002-2003)
- Reviewer: National Science Foundation, *BMC Evolutionary Biology*, *Evolution*, *Genes and Immunity*, *Genetics*, *Heredity*, *Molecular Biology and Evolution*, *Molecular Ecology*, *PLOS Genetics*, *PLOS One*, *Systematic Biology*

INVITED SYMPOSIUM PRESENTATIONS

- 2015 Inflammation at Interfaces Excellence Cluster Summer School, Weissenhäuser Strand, Germany
- 2012 Evolutionary Systems Biology Meeting, Madison, Wisconsin
- 2009 Mind the Gap: Joining empirical and theoretical population genetics, Freiburg, Germany

INVITED SEMINARS

- 2016 Department of Biology, University of Miami, USA
- 2016 Institute of Integrative Biology, University of Liverpool, UK
- 2015 Department of Biology and Biochemistry, University of Bath, UK
- 2015 The Jackson Laboratory, USA
- 2015 Institute of Evolutionary Biology and Environmental Studies, University of Zurich, Switzerland
- 2015 Max Planck Institute for Molecular Genetics, Germany
- 2015 Ecology & Evolutionary Biology Department, University of Colorado at Boulder, USA
- 2015 Department of Veterinary Integrative Biosciences, Texas A&M University, USA
- 2015 Ecology, Evolution and Environmental Biology Department, Columbia University, USA
- 2014 Department of Biology, San Diego State University, USA
- 2012 Rockefeller University, USA
- 2012 Genetics Colloquium, University of Wisconsin-Madison, USA
- 2012 Evolutionary Biology Centre, Uppsala University, Sweden
- 2012 Department of Genetics, North Carolina State University, USA
- 2010 Ecology, Evolution and Behavior Seminar Series, University of Minnesota, USA
- 2008 Institute of Molecular Genetics, Czech Republic Academy of Sciences
- 2007 Institute for Genetics, University of Cologne, Germany

CONTRIBUTED PRESENTATIONS

- 2016 Evolution meeting, Austin, Texas, USA (talk)
- 2016 International Conference on Quantitative Genetics, Madison, Wisconsin, USA (Poster)
- 2015 Gordon Research Conference: Speciation, Ventura, California, USA (Poster)
- 2014 *Society of Molecular Biology and Evolution* Meeting, San Juan, Puerto Rico (Poster)
- 2014 International Wild Mouse Meeting, Plön, Germany (Talk)
- 2014 Complex Trait Community Meeting, Berlin, Germany (Talk)
- 2013 *Society of Molecular Biology and Evolution* Meeting, Chicago, Illinois, USA (Poster)
- 2013 Complex Trait Community Meeting, Madison, Wisconsin, USA (Talk)
- 2011 Evolution meeting, Norman, Oklahoma, USA (Talk)
- 2011 Biology of Genomes meeting, Cold Spring Harbor Laboratories, New York, USA (Talk)
- 2010 Evolution meeting, Portland, Oregon, USA (Talk)
- 2010 Complex Trait Community Meeting, Chicago, Illinois, USA (Talk)
- 2009 *Society for Molecular Biology and Evolution* Meeting, Iowa City, Iowa, USA (Talk)
- 2008 International Congress of Genetics, Berlin, Germany (Poster)
- 2008 *Society for Molecular Biology and Evolution* Meeting, Barcelona, Spain (Talk)
- 2006 Meeting of Predoctoral Fellows in Biological Sciences, Howard Hughes Medical Institute, Bethesda, Maryland, USA (Talk)
- 2006 Genetics of Speciation Symposium, *American Genetics Association*, Vancouver, Canada (Poster)
- 2006 *Society for Molecular Biology and Evolution* Meeting, Tempe, Arizona, USA (Talk)
- 2006 *Society for Molecular Biology and Evolution* Meeting, Tempe, Arizona, USA (Poster)
- 2005 Biological Sciences Retreat, University of California, San Diego, USA (Talk)
- 2005 Gordon Research Conference: Fertilization and the Activation of Development, Plymouth, New Hampshire, USA (Poster)
- 2005 Evolution meeting, Fairbanks, Alaska, USA (Talk)
- 2004 Evolution meeting, Fort Collins, Colorado, USA (Talk, Ernst Mayr Prize Session)