

TAMI M. PANHUIS, Ph.D.

Associate Professor, Zoology
Ohio Wesleyan University

EDUCATION

Ph.D. Evolutionary Biology (2004)

University of California, Riverside, CA

Dissertation: Population genetics of accessory gland proteins and male-female post-mating interactions in *Drosophila melanogaster*

B.S. Zoology & Life Sciences (1997)

University of Maryland, College Park, MD

TEACHING

Associate Professor, Zoology Department, Ohio Wesleyan University, Delaware, OH (2015 – present)

Courses:

Human Physiology lecture and laboratory (ZOOL 325)

Human Anatomy and Physiology lecture and laboratory (ZOOL 251)

Introduction to Cell Biology laboratory (ZOOL 120)

Evolution (ZOOL 261)

Island Biology (ZOOL349 TLC)

UC160

Assistant Professor, Zoology Department, Ohio Wesleyan University, Delaware, OH (2009 – 2015)

Visiting Assistant Professor, W.M. Keck Science Dept., Claremont Colleges, Claremont, CA (2006-2008)

Courses:

Vertebrate Physiology lecture and laboratory (BIO 131)

Introductory Biology laboratory (BIO 43)

Introductory Biology laboratory (BIO 44)

Lecturer, University of California, Riverside CA (Summer 2008)

Courses: Human Reproduction and Sexual Behavior

MENTORSHIP OF UNDERGRADUATE STUDENT RESEARCH AND HONORS

Jarrod Uhrig (OWU Class 2011). Summer Science Research 2010.

Rachel Bowes (OWU Class 2011). Departmental Honors Research, Research Volunteer 2010-2011.

Hira Idrees (OWU Class 2012). Independent Study 2011 – 2012.

Kristin Schwacha (OWU Class 2013). Summer Science Research 2011, Independent Study 2011-2012 and 2012-2013, Summer lab volunteer 2012, Departmental Honors 2012 – 2013.

Emmy Chien (OWU Class 2013). Independent Study 2012-2013.

Megan Fris (OWU Class 2013) Lab Volunteer 2012-2013

Myriam Ibourk (OWU Class 2014). Independent Study 2013 - 2014

Samuel Sonnega (OWU Class 2014) Independent Study 2013 - 2014

Rory Dwyer (OWU class 2017) Freshman Honors, Independent Study, Summer Science Research 2013-2014

Alexandra Tavenier (OWU Class 2015) Summer Science Research 2014, Independent Study 2014, 2015

Ifa Abduljelil (OWU Class 2017) Independent Study 2016

Paige Haenig (OWU Class 2018) Summer Science Research 2017

Aaina Gupta (OWU Class 2018) Summer Science Research 2017, Independent Study 2017

Francesca Socki (OWU Class 2018) Independent Study 2018

POST-DOCTORAL FELLOWSHIPS

Genetics Department, Mohlke Lab, University of North Carolina, School of Medicine, Chapel Hill, NC (2008 – 2009)

Biology Department, Reznick & Fairbairn Lab, University of California, Riverside, CA (2005-2006)

Department of Genome Sciences, Swanson Lab, University of Washington, WA (2004-2005)

PUBLICATIONS [* denotes OWU undergraduate]

Panhuis, T.M., M. Fris*, L. Tuhela, L. Kwan. (2017) An examination of surface epithelium structures of the embryo across the genus *Poeciliopsis* (Poeciliidae). *Journal of Morphology* 278:1726-1738

Kwan, L., M. Fris*, F. H. Rodd, L. Rowe, L. Tuhela, **T.M. Panhuis**. (2015) An examination of the variation in maternal placentae across the genus *Poeciliopsis* (Poeciliidae). *Journal of Morphology* 276:707-720

Fogarty, M.P., **T.M. Panhuis**, S. Vadlamudi, M.L. BuchKovish, K.L. Mohlke. (2013) Allele-specific transcriptional activity at type 2 diabetes-associated single nucleotide polymorphisms in regions of pancreatic islet open chromatin at the JAZF1 locus. *Diabetes* 62:1756-62

Kelly, S.A., **T.M. Panhuis**, A.M. Stoehr. (2012) Phenotypic Plasticity: Molecular Mechanisms and Adaptive Significance. *Comparative Physiology* 2: 1417-1439. doi: 10.1002/cphy.c110008

Panhuis, T.M., G. Broitman-Maduro, J. Uhrig*, M. Maduro, and D.N. Reznick. (2011) Analysis of expressed sequence tags from the placenta of the live-bearing fish *Poeciliopsis* (Poeciliidae). *Journal of Heredity* 102 (3): 352-361 Epub Feb 21

Kyle J Gaulton , Takao Nammo , Lorenzo Pasquali , Jeremy M Simon , Paul G Giresi , Marie P Fogarty , **Tami M Panhuis** , Piotr Mieczkowski , Antonio Secchi , Domenico Bosco , Thierry Berney , Eduard Montanya , Karen L Mohlke , Jason D Lieb & Jorge Ferrer. (2010) A map of open chromatin in human pancreatic islets. *Nature Genetics*. 42 (3) 255 -259 Epub 2010 Jan31 [featured in *ScienceDaily* Feb. 5, 2010 www.sciencedaily.com/releases/2010/02/100202120806.htm]

Panhuis, T. M. and L. Nunney (2007) Insight into the co-evolution of post-mating interactions between the sexes: relatedness suppresses productivity of singly mated female *Drosophila melanogaster*. *Journal of Evolutionary Biology* 20: 1988-1997

Panhuis, T.M. and W.J. Swanson (2006) Molecular evolution and population genetic analysis of candidate female reproductive genes in *Drosophila*. *Genetics* 173: 2039-2047

Panhuis, T.M., N.L. Clark, and W.J. Swanson (2006) Rapid evolution of reproductive proteins in abalone and *Drosophila*. *Philosophical Transactions of the Royal Society B* 361: 261-268

Zuk, M., S.N. Gershman, K.J. Lesser, **T.M. Panhuis**, T. Schmidt, and R.M. Tinghitella (2006) *Review of “Sexual Conflict. Monographs in Behavior and Ecology”* (G. Arnqvist and L. Rowe). *Quarterly Review of Biology* 81: 204-205

Panhuis, T.M., W.J. Swanson, and L. Nunney (2003) Population genetics of accessory gland proteins and sexual behavior in *Drosophila melanogaster* from Evolution Canyon. *Evolution* 57: 2785-2791
[Faculty of 1000 selection]

Panhuis, T.M., R. Butlin, M. Zuk, and T. Tregenza (2001) Sexual selection and speciation. *Trends in Ecology and Evolution* 16: 364-371

Panhuis, T.M. and G.S. Wilkinson (1999) Exaggerated male eye span influences contest outcome in stalk-eyed flies (Diopsidae). *Behavioral Ecology and Sociobiology* 46: 221-227 [Featured in *New Scientist Magazine*, “Wanna Fight?” March 27, 1999]

SELECTED PRESENTATIONS

Panhuis, T.M., L. Kwan, M. Fris, L. Tuhela-Reunin, F.H. Rodd, L. Rowe (November 2014) Structural characterization of the *Poeciliopsis* placenta. Invited Speaker. IV International Symposia on Viviparous Fishes. Morelia, Mexico

Panhuis, T.M., L. Kwan, M. Fris, L. Tuhela-Reunin, F.H. Rodd, L. Rowe (January 2014) Morphological characterization of the *Poeciliopsis* Placenta. Poster presentation for the Society for Integrative and Comparative Biology. Annual international meeting, Austin TX

Panhuis, T.M. (Spring 2013) Poeciliid fish placenta: Genes and Structures. Invited seminar. Biology Department, Butler University, IN

Panhuis, T.M. (Spring 2012) Evolution of Poeciliid fish placenta: expressed placenta genes (A2M) and placenta structure. Invited seminar. Biology Department, The College of Wooster, Wooster, OH

Panhuis, T.M., G. Broitman-Maduro, J. Uhrig, M. Maduro, D.N. Reznick (January 2012) Expressed Sequence Tag Analysis of the *Poeciliopsis* Placenta. Poster presentation for the Society for Integrative and Comparative Biology, Annual International Meeting, Charleston, SC.

Panhuis, T.M. (Fall 2011) Evolution of the Poeciliid fish placenta: placenta genes and structures. Invited seminar. Biology Department, Ohio University, Athens, OH

PROFESSIONAL SOCIETIES & EDITORIAL SERVICES

Societies: Human Anatomy and Physiology Society (HAPs) (2018-present)

Journal Peer Reviewer: *Journal of Evolutionary Biology* (2013, 2015); *Integrative and Comparative Biology* (2011); *Journal of Behavioral Ecology and Sociobiology* (2010); *Molecular Biology and Evolution* (2006)

Grant Peer Reviewer: Vern Perish Fund Awards (2013, 2016); National Science Foundation Animal Behavior (Fall 2012), Symbiosis, Defense and Self-recognition (Spring 2007) Population and Evolutionary Processes (Fall 2007).

FELLOWSHIPS, GRANTS, & AWARDS

TEW grant, OWU (2016)
Theory to Practice Grant, OWU, Co-applicant with Kristin Schwacha* (*OWU Class of 2013) (2012-2013)
TEW grant, OWU, Co-applicant with S. Hankison, Zoology Department (2011-2012)
Theory to Practice Grant, OWU, Co-applicant with S. Hankison, Zoology Department (2010-2011)
NIH post-doctoral trainee fellowship, UW Genome Training Grant (2004-2005)
Five Year Chancellor's Distinguished Fellowship, UCR (1998-2003)
Janet M. Boyce Memorial Scholarship, UCR (2002-2003)
Graduate Dean's Dissertation Research Grant, UCR (2002-2003)
Sigma Xi Grant-in-Aid (2001)
Fellowship Block Grant, UCR (2000, 2001, 2002)
Evolution and Ecology Graduate Research Umbrella Fellowship, UCR (1999)
Graduate Assistants in Areas of National Need (GAANN) Fellowship, UCR (1998-1999, 2003-2004)
Howard Hughes Medical Institute Undergraduate Research Fellowship (1996)

SERVICE

Academic Policy Committee, OWU, one-year replacement (2016-2017), three-year term (2017-2020)
Human Anatomy and Physiology Society (HAPs) Grants and Scholarship committee member (2018-present)
Committee on Women and Gender, OWU, three-year term (2013-2016), Chair (2014-2015)
Academic Conduct Review Board, OWU committee, two-year term (2016-2018)
Faculty representative for the Barry M. Goldwater Scholarship, OWU (Fall 2011 – present)
OWU Zoology Department assessment coordinator/administrator (Fall 2010 – present)
President's Commission on Racial and Cultural Diversity committee, OWU (2012-2015)
Title IX, OWU, committee member (2014-2015)
GLCA Council on Undergraduate Research (CUR) STEM, Ohio Wesleyan faculty representative (2012-2014)