

Peter Marc Piermarini, Ph.D.
Associate Professor of Entomology
Curriculum Vitae (Abbreviated)
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Contact Information:

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Education:

University of Florida, Gainesville, Florida
Ph.D. in Zoology, May 2002
Mentor: Professor David H. Evans, Ph.D.

James Madison University, Harrisonburg, Virginia
B.S. in Biology, May 1995
Summa Cum Laude, GPA 3.75

Current Position:

Associate Professor, The Ohio State University, Department of Entomology, 2016-Present
(80% research/20% teaching)

Previous Positions:

Assistant Professor, The Ohio State University, Department of Entomology, 2011–2016.

Research/Postdoctoral Associate, Cornell University College of Veterinary Medicine, Department of Biomedical Sciences, 2006–2011.

Mentor: Professor Klaus W. Beyenbach, Ph.D.

Postdoctoral Fellow, Yale University School of Medicine, Department of Cellular and Molecular Physiology, 2003–2006.

Mentor: Professor Walter F. Boron, M.D.-Ph.D.

Extramural Research Grants (as PI at The Ohio State University; over \$2.5 million total):

Piermarini PM, Hopkins CR (University of Nebraska), Denton JS (Vanderbilt University) “Development of small molecule mosquitocides for controlling the primary vector of Zika virus, *Aedes aegypti*” NIH NIAID R21, \$442,855. 2017-2020.

Piermarini PM, Rakotondraibe LH “Development of plant-derived, resistance-breaking mosquitocides for controlling vectors of Zika virus” NIH NIAID R21, \$423,500. 2017-2020.

Piermarini PM “Nanoparticle-based solutions to improve mosquito control” Vaylenx, LLC (Industry contract), \$21,197. 2017-2019.

Piermarini PM, Rakotondraibe LH (OSU College of Pharmacy) “Biotransformation of OSU-1 for developing novel mosquitocides” Clarke. \$25,000. 2016-2017.

Piermarini PM, Gardiner MM “Mosquito and west nile virus surveillance within inner-city Cleveland OH” Ohio EPA. \$7,700. 2016.

Piermarini PM, Gillen CM (Kenyon College) “Collaborative research: Na,K,Cl cotransporters in mosquito epithelial transport - connecting molecules to physiology” National Science Foundation. \$150,000. 2016-2017

Piermarini PM. “Eliciting indigestion in mosquitoes” Mosquito Research Foundation. \$53,296. 2014-2015

Piermarini PM, Denton JS (Vanderbilt University), and Beyenbach KW (Cornell). “High-throughput discovery of chemicals that induce kidney failure in the malarial vector *Anopheles gambiae*”. Foundation for the National Institutes of Health. \$1,399,999. 2011-2015.

Complete List of Published Research (click on link below):

<https://www.ncbi.nlm.nih.gov/myncbi/peter.piermarini.1/bibliography/public/>

Honors & Awards (as PI at The Ohio State University):

2018 Paul A. Dahm Memorial Lecturer, Department of Entomology, Iowa State University.

2017 Invited delegate, U.S.-Cuba Binational Symposium on Vector Biology, Havana, Cuba

2016 Plenary Speaker, Insect Biotech Conference, St. Catharines, Ontario, Canada

2016 William E. Krauss Director’s Award, Ohio Agricultural Research and Development Center, The Ohio State University

Courses Taught (at The Ohio State University):

2012-Present ENTMLGY 4607: Veterinary Entomology On-line (taught every semester). This 7-week on-line undergraduate course introduces students to the fascinating world of arthropod pests and vectors that affect the health of domestic animals.

2016-Present ENTMLGY 6703: Molecular Techniques and Data Analysis (cotaught every other even year with Dr. Larry Phelan). This 7-week graduate course introduces students to key molecular and metabolomics techniques used in the field of Entomology. Students participate in a hands-on laboratory project that allows them to integrate various experimental approaches to test a hypothesis.

2020-Present ENTMLGY 7890: Special Topics in Entomology (cotaught every other even year with Drs. Megan Meuti and Sarah Short). In this semester long graduate seminar course students read and lead discussions on the most recent literature on mosquito biology.

Participation in Teaching Workshops and Initiatives (as faculty at The Ohio State University):

2020 OSU Course Design Institute for On-line Courses

2020 OSU Drake Institute Teaching Support Program (Components 1 and 2)

2019 University of Minnesota Optimizing the Practice of Mentoring, On-line training course (The course addresses research mentoring that occurs within biomedical, behavioral, and social science fields)