

Michael J. Baltzley

Western Oregon University
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Education

- 2006 Ph.D. in Biology. University of North Carolina at Chapel Hill.
Dissertation: Evolution and neurobiology of the neural circuitry underlying crawling in nudibranch molluscs.
- 1997 B.S. in Biology with Honors. Pennsylvania State University, University Park.
Minor in Marine Science.

Professional Experience

- 2011-current Assistant Professor. Western Oregon University, Department of Biology.
- 2008-2011 Visiting Assistant Professor. St. Mary's College of Maryland, Department of Biology.
- 2006-2008 Postdoctoral Fellow. University of California, San Diego, Department of Biological Sciences. Supervisor: Dr. William B. Kristan, Jr.

Research Assistantships

- 2008 Parallel Evolution of Nervous Systems: From Genes to Behavior. Research Apprenticeship Program at Friday Harbor Laboratories, University of Washington.
- 2005 Neuroethology of Orientation Behavior: Analysis Using an Invertebrate Model System. Research Apprenticeship Program at Friday Harbor Laboratories, University of Washington.
- 2004 From Neurons to Behavior: Comparative Neurobiology of Marine Invertebrates. Research Apprenticeship Program at Friday Harbor Laboratories, University of Washington.
- 2002 Neurobiology and Behavior of Orientation and Navigation in Animals. Research Apprenticeship Program at Friday Harbor Laboratories, University of Washington.

Peer-reviewed Publications

¹Baltzley MJ, ²Sherman A, Cain SD, Lohmann KJ. 2011. Conservation of a *Tritonia* Pedal peptides network in gastropods. *Invertebrate Biology*. 130: 313-324. DOI 10.1111/j.1744-7410.2011.00242.x.

Baltzley MJ, Gaudry Q and Kristan WB Jr. 2010. Species-specific behavioral patterns correlate with differences in synaptic connections between homologous mechanosensory neurons. *Journal of Comparative Physiology A*. 196 (3): 181-197. DOI 10.1007/s00359-010-0503-y.

¹Baltzley MJ and Lohmann KJ. 2008. Comparative study of TPep-like immunoreactive neurons in the central nervous system of nudibranch molluscs. *Brain, Behavior and Evolution*. 72 (3): 192-206. DOI:10.1159/000157356.

Baltzley MJ, Paradise CJ and Dunson WA. 1999. Interactive effects of density and water sodium concentration on insect larvae inhabiting tree holes. *Journal of Freshwater Ecology*. 14 (1): 113-124.

¹Selected for cover photograph

²Undergraduate student

Manuscripts in Prep

Wang JH, Baltzley MJ, Cain SD, Lohmann KJ. Effects of ablating magnetically responsive neurons on locomotion and turning.

Latham KL, Baltzley MJ, Boomer SM. If you build it, some will come—active learning strategies in freshman introductory biology.

²Gibbons KR, Baltzley MJ. Characterization of synaptic interactions between mechanosensory cells in the American medicinal leech *Macrobdella decora*.

²Undergraduate student

Abstracts at Scientific Conferences

2013 Boomer SM, Baltzley MJ, Latham KL. American Society for Microbiology Conference for Undergraduate Educators in Englewood, CO.

2013 ²Turner M, ²Chapman AP, Baltzley MJ. Society for Integrative and Comparative Biology in San Francisco, CA.

2012 Boomer SM, Latham KL, Baltzley MJ. American Society for Microbiology Conference for Undergraduate Educators in San Mateo, CA.

2010 ²Gibbons KR, Baltzley MJ. Society for Integrative and Comparative Biology in Seattle, WA.

- 2010 ²Rees SD, Baltzley MJ. 2010. Society for Integrative and Comparative Biology in Seattle, WA.
- 2010 Baltzley MJ. Society for Integrative and Comparative Biology in Seattle, WA.
- 2009 Baltzley MJ, Gaudry Q, Kristan WB Jr. Society for Integrative and Comparative Biology in Boston, MA
- 2007 Baltzley MJ, Kristan WB Jr. Society for Neuroscience in San Diego, CA.
- 2007 Baltzley MJ, Kristan WB Jr. International Society for Neuroethology in Vancouver, BC, Canada.
2006. Baltzley MJ, Lohmann KJ. Society of Integrative and Comparative Biology in Orlando, FL.
2004. Baltzley MJ, Lohmann KJ. Society of Integrative and Comparative Biology in New Orleans, LA.
2004. Baltzley MJ, Lohmann KJ. Society for Neuroscience in San Diego, CA.
- 2003 Baltzley MJ, Cain SD, Lohmann KJ. Society of Integrative and Comparative Biology in Toronto, ON

²Undergraduate student

Invited Seminars

- 2010 Department of Biology, Franklin & Marshall College.
- 2009 Department of Biology, Dickinson College.
- 2005 Outstanding Student Lecturer. Biology Department Retreat at University of North Carolina at Chapel Hill, Department of Biology.
- 2004 Friday Harbor Laboratories, University of Washington.
- 2002 Marine Science Associates, San Juan Island, WA.

Grants and Fellowships Received

- 2013 Faculty Development Grant. Western Oregon University
- 2012 Arctic Visiting Speaker Program Grant. Arctic Research Consortium of the United States.
- 2010 Faculty Development Grant. St. Mary's College of Maryland.
- 2009 Faculty Development Grant. St. Mary's College of Maryland.
- 2004 Wainwright Fellowship. Friday Harbor Laboratories, University of Washington.
- 2003 Kohn Fellowship. Friday Harbor Laboratories, University of Washington.
- 2002 Wilson Fund Scholarship. University of North Carolina at Chapel Hill, Dept. of Biology.
- 2001 NSF Graduate Student Research Fellowship.
- 2001 PADI Aware Grant.
- 1999 Joseph E. Pogue Fellowship. University of North Carolina at Chapel Hill, Graduate School.

Courses Taught

- 2013 Comparative Vertebrate Physiology. Advanced level lecture and laboratory course. Western Oregon University.
- 2012, '13 Principles of Biology III. Introductory-level lecture and laboratory course for Biology majors. Western Oregon University.
- 2012, '13 Cell Biology. Lecture and laboratory course for Biology majors. Western Oregon University.
- 2012 Comparative Vertebrate Anatomy. Advanced level lecture and laboratory course. Western Oregon University.
- 2012 Neurobiology. Advanced-level lecture and laboratory course. Western Oregon University.
- 2011, '12, '13 Principles of Biology I. Introductory-level lecture and laboratory course for Biology majors. Western Oregon University.
- 2010 The Biology of Morality. Seminar course for first-year students. St. Mary's College of Maryland.
- 2011, '10, '09 Neurobiology. Advanced-level lecture and laboratory course. St. Mary's College of Maryland.
- 2011, '10, '09 Introduction to the Neurosciences. Introductory-level lecture course. St. Mary's College of Maryland.
- 2011, '10 Seminar in the Neurosciences. Advanced-level seminar course. St. Mary's College of Maryland.
- 2010, '09, '08 Principles of Biology I Lab. Introductory-level laboratory course for Biology majors. St. Mary's College of Maryland.
- 2009 Principles of Biology. Introductory-level lecture course for Biology majors. St. Mary's College of Maryland.
- 2008 Contemporary Bioscience with Laboratory. Introductory-level lecture and laboratory course for non-majors. St. Mary's College of Maryland.

Teaching Assistantships

- 2006, 2005 Vertebrate Structure and Evolution. University of North Carolina at Chapel Hill.
- 2002 Invertebrate Zoology. University of North Carolina at Chapel Hill.

Undergraduate Research Assistants

Western Oregon University

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|---------|---|---|--|
| 2013-14 | ³ Davis, Spicie Hoda, Anusha | ³ James, Taylor Yost, Joel | ³ Zachary, Eli |
| 2012-13 | Chapman, Andrew ³ Davis, Spicie Hoda, Anusha | ³ James, Taylor Mersereau, Jonathan | Turner, Michael ³ Zachary, Eli |
| 2011-12 | Chapman, Andrew | Turner, Michael | |

³Co-advised with Dr. Kristin L. Latham

St. Mary's College of Maryland

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| 2010-11 | Rees, Steven | Sheridan, Steven |
| 2009-10 | Dueker, Ashleigh | Rees, Steven |
| 2008-09 | Gibbons, Kaitlin | Rees, Steven |

University of California, San Diego

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| 2007-08 | Parthasarthy, Vishnu |
| 2006-07 | Ruiz, Natalie |

St. Mary's Project Advisees (Senior Research Projects)

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| 2010-2011 | Amie Severino | | |
| 2009-2010 | Egorova, Elena | Gibbons, Kaitlin | Nichols, Caitlin |

Service Activities

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| 2013 | Search committee member for Dean of College of Liberal Arts and Sciences |
| 2012-13 | Faculty Senator for Natural Science & Mathematics |
| 2012 | Committee member on an ad hoc committee to develop a Applied Baccalaureate degree for Western Oregon University |
| 2012 | Organized campus visit by documentary filmmaker Leonard Kamerling in conjunction with the Jensen Arctic Museum |

Membership in Professional Societies

Society for Integrative and Comparative Biology

Society for Neuroscience

International Society of Neuroethology

Other scholarly activity:

Reviewed Manuscripts for:

Biological Bulletin

Marine & Freshwater Behaviour & Physiology

Proceedings of the Royal Society B

Reviewed Grants for:

Israel Science Foundation

Question writer for Educational Testing Service GRE Biology exam