

BRIAN JOSEPH DINGMANN, PH.D.

2900 University Avenue ♦ Crookston, Minnesota 56716-5001 ♦ (218) 281-8249 ♦ dingm021@umn.edu

EDUCATION

GEORGIA INSTITUTE OF TECHNOLOGY – Atlanta, Georgia 2001

Doctorate of Philosophy in Applied Biology, minor in Biochemistry. GAANN Fellow

Additional coursework in Chemistry, Biochemistry, Ecology and Physiology provided for a broad-based training in Biology.

Thesis: *Studies of a Mate Recognition Gene and Its Product From the Rotifer Brachionus plicatilis, characterized a surface membrane glycoprotein and its gene involved in mate recognition in rotifers.*

SAINT JOHN'S UNIVERSITY – Collegeville, Minnesota 1994

Bachelor of Arts in Biology with All College Honors and minor in Philosophy.

Siehl Scholar, graduated cum laude.

TEACHING RELATED EXPERIENCE

UNIVERSITY OF MINNESOTA CROOKSTON- Crookston, Minnesota 2010-present

Associate Professor of Biology

UNIVERSITY OF MINNESOTA CROOKSTON- Crookston, Minnesota 2008-present

Honors Program Coordinator

Founded and direct all activities related to the Honors Program and the Alpha Lambda Delta First Year Honor Society.

UNIVERSITY OF MINNESOTA CROOKSTON- Crookston, Minnesota 2004-2010

Assistant Professor of Biology

Tenured instructor for the following courses: a general biology course with laboratories; a general zoology course with laboratory; a general microbiology course with laboratory; an evolution course, limnology and ecotoxicology field courses.

ROCHESTER COMMUNITY AND TECHNICAL COLLEGE- Rochester, Minnesota 2003-2004

Adjunct Instructor

Full-time instructor for both an introductory biology and a microbiology course with laboratories. Biology1101: Elements of Biology with a laboratory was a general biology course for non-majors. Biology 2021: General Microbiology with a laboratory was a required course for health-science majors.

MINNESOTA STATE UNIVERSITY, MANKATO – Mankato, Minnesota 2002

Adjunct Instructor

Instructor for a general zoology course with a laboratory. Course consisted of a comprehensive review of the animal phyla with a comparative anatomy dissection laboratory. Biology 316: Animal Diversity was a required course within the zoology concentration at Minnesota State University.

ACADEMY OF NATURAL SCIENCES – Philadelphia, Pennsylvania 2001

Mentor for Research Experience for Undergraduates

Supervision of a 10-week summer intern that involved documentation and imaging to facilitate a web-based search inventory of the rotifer collection at the Academy of Natural Sciences. Mentoring encompassed taxonomic and microscopic techniques needed to develop the rotifer database.

RESEARCH EXPERIENCE

MAYO CLINIC – Rochester, Minnesota 2001 - 2004

Postdoctoral Fellow

Study of the structure/function dynamics of a plasma membrane calcium pump that involves site-directed mutagenesis of the calcium binding site and biochemical transport characterization of the resultant mutants.

Postdoctoral Fellow

Internationally selected grant at the Academy awarded to study aquatic invertebrates. Fellowship was restricted to one year by donor. Research involved the molecular systematics of rotifers at the genus/family level within the phylum Rotifera using the rDNA gene complex.

Graduate Teaching/Research Assistant - Giving Assistance in Areas of National Need (GAANN) Fellow

Fellowship required three quarters of teaching, with subsequent videotaping and critical evaluation of teaching techniques. Experience with nucleic acids, protein chemistry and antibody affinity purification, rotifer mating bioassays, and characterization of a mate recognition gene.

PUBLICATIONS

Dingmann, B. J., Armstrong, V., and Naplin, E. (2014). The expression of heat-shock protein in a rotifer under various sub-optimum nutritional states. Hydrobiologia (in preparation).

Dingmann, B. J., Armstrong, V. and Naplin, E. (2014). The Effect of three putative endocrine disruptors on the reproduction of the rotifer *Brachionus calyciflorus* (Rotifera). Journal of Environmental Biology (submitted).

Dingmann, B. J., and Webster, M. (2014). Open Season on Cormorants on Leech Lake, Minnesota. National Center for Case Studies in Science (submitted, peer-review system).

Jersabek, C., Dingmann, B. J., and Garcia, R. (2003). Taxonomic review and digital imaging of the rotifer collection at the Academy of Natural Sciences, a special Academy of Natural Sciences CD publication (peer-reviewed).

Snell, T. W., Dingmann, B. J., and Serra, M. (2001). Density-dependence in natural rotifer populations. Hydrobiologia 446:39-44.

Preston, B., Snell, T. W., Robertson, T., and Dingmann, B. J. (2000). Use of freshwater rotifer *Brachionus calyciflorus* in screening assay for potential endocrine disruptors. Environ. Toxicol. Chem. 19:2923-2928.

Rico-Martinez, R., Dingmann, B. J., and Snell, T. W. (1996). Surface glycoproteins potentially involved in mate recognition in nine freshwater rotifer species. Arch. Hydrobiologia 138:1-5.

PRESENTATIONS

February 2009, *The Collaboration for the Advancement of College Teaching and Learning*, St. Paul, MN

Oral presentation entitled, "Promoting and Experiencing Collaborative Learning" by Kevin Thompson, Brian J. Dingmann, and Marilyn Grave

October 2007, Biocomplexity Research Group, Woods Hole, MA

Oral presentation entitled, "Site-directed Mutagenesis of a Mate Recognition Protein in a Rotifer" by Brian J. Dingmann

October 2006, Biocomplexity Research Group, Woods Hole, MA

Oral presentation entitled, "Insect Cell Expression of a Mate Recognition Protein in a Rotifer" by Brian J. Dingmann

March 2006, International Rotifer Symposium XI, Mexico

Poster presentation entitled, "The effect of three putative endocrine disruptors on the reproduction of the rotifer *Brachionus calyciflorus* (Pallas)" by Brian J. Dingmann and Vanessa Armstrong

February 2006, National Conferences for Undergraduate Research, Asheville, NC

Poster presentation entitled, "Disruption of sexual reproduction in the rotifer *Brachionus calyciflorus* (Pallas)" by Vanessa Armstrong and Brian J. Dingmann

February 2001, National meeting, ASLO, Albuquerque, New Mexico

Oral presentation entitled, "A comparison of morphological and molecular phylogenies of the Asplanchnidae (phylum Rotifera)" by Brian J. Dingmann, Elizabeth Walsh and Robert Wallace

January 2000, International Rotifer Symposium IX, Thailand

Oral presentation entitled, "Species and speciation in the phylum Rotifera" by Brian J. Dingmann and Terry W. Snell

January 2000, International Rotifer Symposium IX, Thailand

Oral presentation entitled, "Density-dependence in natural rotifer populations" by Terry W. Snell, Brian J. Dingmann and Manuel Serra

November 1999, National meeting, SETAC, Philadelphia, Pennsylvania

Poster presentation entitled, "Effects of endocrine disruptors on asexual and sexual reproduction of the rotifer *Brachionus calyciflorus*" by Ben Preston, Terry W. Snell, Tish W. Robertson, and Brian J. Dingmann

June 1997, International Rotifer Symposium VIII, Collegeville, Minnesota

Oral presentation entitled, "Carbohydrate Structure of the Mate Recognition Pheromone: Comparison of three rotifer species" by Brian J. Dingmann and Terry W. Snell

REFERENCES

Terry W. Snell, Ph.D.
Thesis advisor
Professor of Biology
Georgia Institute of Technology
404-894-8906
terry.snell@biology.gatech.edu

Pamela Elf, Ph.D.
Associate Professor
Dept. of Math, Science and Technology
University of Minnesota, Crookston
218-281-8263
pelf@umn.edu

Bill Peterson
Chair
Dept. of Math, Science and Technology
University of Minnesota, Crookston
218-281-8268
alixx299@umn.edu