

Chris Braden

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Education

Ph.D. in Genetics, Cell Biology and Development - 2015

University of Minnesota, Minneapolis, MN
Program: Molecular, Cellular, Developmental Biology & Genetics
Advisor: Dr. Thomas P. Neufeld

B.S. in Biology, Summa Cum Laude - 2008

Linfield College, McMinnville, OR
Major: Biology
Minor: Chemistry
Advisor: Dr. Michael Roberts

Research

2009-15 Graduate Research Assistant, University of Minnesota, Department of Genetics, Cell Biology, and Development, Minneapolis, MN

Identified and characterized a novel, non-canonical mechanism of activating autophagic machinery in *Drosophila melanogaster* by generating mutant and transgenic animals, developing *in vivo* treatments, performing Western blot and co-immunoprecipitation assays, and characterizing/quantifying phenotypes by confocal fluorescent microscopy of fluorescent fusion proteins and immunohistochemistry.

Advisor: Dr. Thomas P. Neufeld

2008-09 Research Technician, Nunhems USA, Nunhems Biotech Services Division, Brooks, OR

Received, extracted, assayed, and posted results for samples for molecular assisted breeding of seed products (tomato, carrot, melon, others as required). Performed qPCR, PCR, and vertical polyacrylamide (Li-COR)-based assays.

Supervisor: Nichole Martin

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2007-08 Research Assistant, Linfield College, Department of Biology, McMinnville, OR

Worked on development of a plasmid for use in Fluorescence Resonance Energy Transfer analysis of cortactin, a protein involved in cellular motility, over-expression of which has been implicated in cancer metastasis.

Advisor: Dr. Anne Kruchten

2006 Research Assistant, Linfield College, Department of Chemistry, McMinnville, OR

Designed and did troubleshooting of a CO₂-based green alternative to the common HCl/DCI Fourier Transform Infrared spectroscopy experiment for physical chemistry students.

Advisor: Dr. Jim Diamond

Publications

In submission **Braden, CR** & Neufeld, TP. Atg1-independent induction of autophagy by the Drosophila Ulk3 homolog, ADUK.

In submission Mauvezin, C., Ayala, C., Niesch, A., Kim, J., Beltrame, A., **Braden, C.**, Gardner, M., Hays, T., Neufeld, TP. Regulation of autophagosome-lysosome fusion and localization by a Snx23/Rab14 complex.

2014 Mauvezin, C., Ayala, C., **Braden, C. R.**, Kim, J., & Neufeld, T. P. (2014). Assays to monitor autophagy in Drosophila. *Methods (San Diego, Calif.)*, 68(1), 134–9.

Teaching

2014-15 Undergraduate Research Mentor, Neufeld Lab, University of Minnesota, Minneapolis, MN

Trained, managed and designed novel research projects for two undergraduate students to provide molecular biology and confocal fluorescence microscopy experience.

Students: Mandy Chan (Senior)
Alex Sarkis (Sophomore)

2011-12 Preparing Future Faculty series student, University of Minnesota & Hamline University, Minneapolis, MN

Gained exposure to and practice in Student-Centered Learning methods during a two course, six credit series developed by the University of Minnesota Center for Teaching and Learning. Series culminated in a self-

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arranged **mentorship** at Hamline University, where lessons were put into practice by leading three sessions of an introductory biology class.

Instructor: Dr. Anita Gonzalez, University of Minnesota

Mentor: Dr. Leif Hendrickson, Hamline University

2012 Teaching Assistant, University of Minnesota, Department of Biology, Minneapolis, MN

Held weekly office hours and graded tests and assignments for GCD 3022, a 90 seat non-majors genetics class

Supervisor: Dr. David Kirkpatrick

2010 Teaching Assistant, University of Minnesota, Department of Biology, Minneapolis, MN

Held weekly office hours, led weekly group discussion sessions, and graded tests and assignments for GCD 4003, a 110 seat upper-level genetics class

Supervisors: Drs. David Matthes and Naoko Shima

2007-08 Teaching Assistant, Linfield College, Department of Biology, McMinnville, OR

Presented basic techniques and concepts to a 25-seat laboratory section of BIOL-210 Principles of Biology students and graded lab reports

Supervisor: Ken Kebisek

2006-07 Tutor in Biology, Linfield College, Learning Support Services, McMinnville, OR

Met twice weekly with two BIOL-210 Principles of Biology students to reinforce course topics

Publishing

2015- Editorial Assistant, Oncotarget, Chromosome section.

Prepare and disseminate author recruitment materials for the newly-created Chromosome section of the journal Oncotarget.

Section Editor: Dr. Duncan Clarke

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Service

2010-12 Student Representative, University of Minnesota, Graduate Program in Molecular, Cellular, Developmental Biology and Genetics. Minneapolis, MN

Represented student concerns during departmental Executive Committee meetings, organized student participation in prospective student recruitment weekends, and organized and executed monthly interdepartmental social hours in cooperation with the Graduate Program in Biochemistry, Molecular Biology and Biophysics

Awards

2014 Travel Award, ASCB annual meeting. Philadelphia, PA.

Applied for and received merit-based travel funding from ASCB.

Poster Presentations

2014 ASCB annual meeting. Philadelphia, PA. *Regulation of autophagy by Ulk3, an Atg1-family kinase.*

2012 GSA Drosophila Research Conference. *Regulation of Autophagy by the Atg1/Ulk family of protein kinases in Drosophila melanogaster.*

2010-14 University of Minnesota Developmental Biology Center Symposium. *Regulation of Autophagy by the Atg1/Ulk family of protein kinases in Drosophila melanogaster.*

References:

Dr. Thomas Neufeld

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Dr. Jocelyn Shaw

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Minneapolis, MN, USA

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