Dr. Lauren S. Waters

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Oshkosh, WI 54901 (920) 424-7099

Education and Professional Positions

**University of Wisconsin Oshkosh**

Assistant Professor of Chemistry (2012 – present)

**National Institutes of Health**

Pharmacology Research Associate (PRAT) Postdoctoral Fellow (2007 – 2012)

Postdoctoral Advisor: Dr. Gisela Storz, Ph.D.

**Massachusetts Institute of Technology**

Ph.D. in Molecular Biology (2007)

Graduate Advisor: Dr. Graham Walker, Ph.D.

**Cornell University**

B.A. in Biochemistry (2000)

Research Experience

**Assistant Professor of Chemistry**

*University of Wisconsin – Oshkosh, Oshkosh, WI* (2012 – present)

Studying the function of a predicted manganese chaperone, characterizing the structure-function of manganese export proteins, and identifying novel manganese homeostasis genes across bacteria.

**Pharmacology Research Associate (PRAT) Postdoctoral Fellow with Dr. Gisela Storz**

*National Institutes of Health, Bethesda, MD* (2007 – 2012)

Investigated the molecular mechanisms of regulatory RNAs and small proteins in the stress responses of *Escherichia coli*.

**Graduate Research Assistant with Dr. Graham C. Walker**

*Massachusetts Institute of Technology, Cambridge, MA* (2001 – 2007)

Studied DNA repair and mutagenesis in *Saccharomyces cerevisiae*. Used biochemical and genetic approaches to characterize the mutagenic DNA polymerase Rev1.

**Undergraduate Research Assistant with Dr. Jeffrey Roberts**

*Cornell University, Ithaca, NY* (1998 – 2000)

Employed chromatin immunoprecipitation (ChIP) to analyze the protein-protein and protein-DNA interactions of the bacteriophage lambda Q protein and RNA polymerase.

**Summer Undergraduate Research Assistant with Dr. Vivian MacKay and Dr. Linda Breeden**

*Fred Hutchinson Cancer Research Center, Seattle, WA* (Summer 1999)

Helped to investigate regulation of expression of *CLN3* and timely entry of yeast into the cell cycle.

**Summer Undergraduate Research Assistant with Dr. Peggy Porter**

*Fred Hutchinson Cancer Research Center, Seattle, WA* (Summer 1998)

Aided in the correlation of expression of cell cycle genes with breast cancer progression.

Fellowships and Grants

“IMAGE Grant-Writing Workshop”, Faculty Development Grant (FDW876), Off-Campus Program,

University of Wisconsin Oshkosh (2018)

“Manganese Homeostasis in Bacteria: Characterization of an Mn-Regulated Small Protein and Identification of

Novel Mn Exporters” Research Corporation Cottrell Scholar Award, Grant #23595, Funded (2016 – 2019)

“Manganese Homeostasis in Bacteria” (FDE177), External Matching Grant, University of Wisconsin Oshkosh,

Funded 2016.

“Characterization of Two New Manganese Homeostasis Proteins in *Escherichia coli”* Research Corporation

Cottrell College Science Award (Single Investigator), Grant #22658, Funded (2014 – 2017)

“Characterization of Two New Manganese Homeostasis Proteins in *Escherichia coli”* (FDE172),

External Matching Grant, University of Wisconsin Oshkosh, Funded 2014

“Finding Specific Proteins That Bind to the Small Protein MntS in the Model Bacterium *Escherichia coli*”

Student-Faculty Collaborative Grant, University of Wisconsin Oshkosh, Funded and Declined due to student recipient of an additional Proteomics and Functional Genomics Scholarship (2014)

“Council on Undergraduate Research Institute Workshop”, Faculty Development Grant (FDW842),

Off-Campus Program, University of Wisconsin Oshkosh (2012)

Pharmacology Research Associate (PRAT) Fellowship, National Institutes of Health (2008 – 2011)

Fred Hutchinson Summer Research Program, Fred Hutchinson Cancer Research Center (1998, 1999)

Publications

† denotes mentored student

Zeinert RZ†, Martinez E†, Schmitz J†, Katherine Senn†, Bakhtawar Usman†, Anantharaman V, Aravind L\*, **Waters LS\***. (2018) Structure-function analysis of manganese exporter proteins across bacteria. *Journal of Biological Chemistry* **293** (15) 5715-5730.\*corresponding authors

Dambach M, Sandoval M†, Updegrove TB, Anatharaman V, Aravind, L, **Waters LS\*,** Storz G\*. (2015) The ubiquitous *yybP-ykoY* riboswitch is a manganese-responsive regulatory element. *Molecular Cell* **57** (6) 1099-109. \*corresponding authors

Martin JE, **Waters LS\***, Storz G, Imlay JA\*. (2015) The *Escherichia coli* small protein MntS and exporter MntP optimize the intracellular concentration of manganese. *PLoS Genetics* **11** (3) e1004977. \* corresponding authors

**Waters LS**, Sandoval M† , Storz G. (2011) Expanding the Pathways of Metal Homeostasis: A Small Protein and Putative Efflux Pump are Part of the Manganese Regulon. *Journal of Bacteriology* **193** (21) 5887-97.

Beuning PJ, Chan S, **Waters LS**, Addepalli H, Ollivierre JN, Walker GC. (2009) Characterization of Novel Alleles of the E. coli *umuDC* genes Identifies Additional Interaction Sites of UmuC with the Beta Clamp. *Journal of Bacteriology* **191** (19) 5910-20.

Publications (Continued)

† denotes mentored student

**Waters LS**, Minesinger BK, Wiltrout ME, D’Souza S, Woodruff RV, Walker GC. (2009) Eukaryotic translesion polymerases and their roles and regulation in DNA damage tolerance. *Microbiology and Molecular Biology Reviews* **73** (1) 134-54.

**Waters LS**, Storz G. (2009) Regulatory RNAs in bacteria. *Cell* **136** (4) 615-28.

D’Souza S\*, **Waters LS\***, Walker GC. (2008) Novel conserved motifs in Rev1 C-terminus are required for mutagenic DNA damage tolerance. *DNA Repair* **7** (9) 1455-70. **\*co-first authors**

**Waters LS**, Walker GC. (2006) The critical mutagenic translesion DNA polymerase Rev1 is highly expressed during G2/M rather than S-phase. *Proceedings of the National Academy of Science* **103** (24) 8971-6.

MacKay VL, Mai B, **Waters L**, Breeden LL. (2001) Early cell cycle box-mediated transcription of

CLN3 and SWI4 contributes to the proper timing of the G1-to-S transition in budding yeast. *Molecular and Cellular Biology* **21** 4140-8.

Selected Presentations

† denotes mentored student

Katherine Senn†, Jennifer Schmitz†, Eli Martinez†, Rilee Zeinert†, Luke Seuffer†, Ellen Otto†, **Lauren Waters**. (2019) “Bacterial manganese and pH homeostasis: structure-function analyses of manganese transporters” Molecular Genetics of Bacteria and Phages Meeting, Madison, WI. *(Poster presentation*)

**Lauren Waters**. (2019) “In-Class Activities for Use in Introductory Biochemistry Lecture Courses” Transforming Education in the Molecular Life Sciences ASBMB Educational Symposium, San Antonio, TX. *(Oral presentation*)

**Lauren Waters**. (2019) “Incorporation of Active Learning Approaches, Just-In-Time Teaching, and Genuine Research Projects into Biochemistry Lecture and Laboratory Courses”Transforming Education in the Molecular Life Sciences ASBMB Educational Symposium, San Antonio, TX. *(Poster presentation*)

**Becca Amick†**, Lauren Waters. (2019) “Subcellular Localization of the Small Protein MntS in *Escherichia coli*.” University of Wisconsin Oshkosh Honors Thesis Symposium and Chemistry Seminar, Oshkosh, WI.

*(2 Oral presentations)*

**Becca Amick†**, Lauren Waters. (2019) “Subcellular Localization of the Manganese Homeostasis Protein, MntS.” Annual UW System Symposium for Undergraduate Research and Creative Activity, University of Wisconsin Green Bay, Green Bay, WI and Celebration of Scholarship, University of Wisconsin Oshkosh, Oshkosh, WI. *(2 Poster presentations)*

**Kimberly Preissner†**, Lauren Waters. (2019) “Determining MntS native structure using Blue Native gel electrophoresis, SDS gel electrophoresis, and Western blot.” Celebration of Scholarship, University of Wisconsin Oshkosh, Oshkosh, WI. *(Poster presentations)*

**Luke Seuffer†**, Lauren Waters. (2019) “Assessing the Role of Alx, a Membrane Protein, in *Escherichia coli*.” Annual UW System Symposium for Undergraduate Research and Creative Activity, University of Wisconsin Green Bay, Green Bay, WI and Celebration of Scholarship, University of Wisconsin Oshkosh, Oshkosh, WI.

*(2 Poster presentations)*

Selected Presentations (continued)

† denotes mentored student

**Luke Seuffer†**, Lauren Waters. (2019) “The Curious Function of a Mysterious Protein, Alx, in *Escherichia coli*.” University of Wisconsin Oshkosh Chemistry Seminar, Oshkosh, WI. *(Oral presentation)*

**Lauren Waters.** (2018) “Research and teaching careers at primarily undergraduate institutions.” National Institutes of Health PRAT Fellowship Alumni Career Panel, Bethesda, MD. *(Oral presentation)*

**Lauren Waters.** (2018) “Metal homeostasis in bacteria:  the role of small proteins and transporters in manganese metabolism.” National Institutes of Health Small Protein Symposium, Bethesda, MD. *(Oral presentation)*

**Lauren Waters.** (2018) “Metal homeostasis in bacteria:  the role of small proteins and transporters in manganese metabolism.” University of Wisconsin Oshkosh Chemistry Department Seminar, Oshkosh, WI. *(Oral presentation)*

**Lauren Waters.** (2018) “Metal homeostasis in bacteria:  from manganese-sensing riboswitches to novel manganese exporters.” Center for Biomolecular Sciences and the Department of Medicinal Chemistry Seminar, University of Illinois Chicago, Chicago, IL. *(Oral presentation*)

**Lauren Waters.** (2018) “Bacterial Manganese Homeostasis: Structure-Function Analysis of an Enigmatic Small Protein, MntS, and Several Families of Manganese Transporters.” Molecular Genetics of Bacteria and Phages Meeting, Madison, WI. *(Oral presentation*)

**Nathan Witman†**, Lauren Waters. (2018) “Determining the function of a small protein involved in the regulation of manganese homeostasis in *E. coli*.” University of Wisconsin Oshkosh Honors Thesis Symposium and Chemistry Seminar, Oshkosh, WI. *(2 Oral presentations)*

**Nathan Witman†**, Lauren Waters. (2018) “Determining the function of a small protein involved in the regulation of manganese homeostasis in *E. coli*.” Annual UW System Symposium for Undergraduate Research and Creative Activity, University of Wisconsin Green Bay, Green Bay, WI and Celebration of Scholarship, University of Wisconsin Oshkosh, Oshkosh, WI. *(2 Poster presentations)*

**Katherine Senn†**, Lauren Waters. (2017) “Manganese Homeostasis in Bacteria: Investigating the Structure and Activity of the *E. coli* Small Protein MntS.” University of Wisconsin Oshkosh, Honors Thesis Symposium and Chemistry Seminar, Oshkosh, WI. *(2 Oral presentations)*

**Katherine Senn†**, Lauren Waters. (2017) “Investigating the Structure and Function of a Protein Involved in Manganese Homeostasis in *E. coli*.” University of Wisconsin Oshkosh Celebration of Scholarship, Oshkosh, WI. *(Poster presentation)*

**Lauren Waters.** (2017) “Regulation of manganese metabolism in bacteria: from a small RNA to a small protein to riboswitches.” Metals in Biology Gordon Research Conference, Ventura, CA. *(Oral presentation*)

**Lauren Waters.** (2016) “Walker Lab 40th Anniversary.” Walker Lab 40th Anniversary Symposium, MIT, Cambridge, MA. *(Oral presentation*)

**Lauren Waters.** (2016) “Higher Education for Tomorrow” and “Manganese Homeostasis in Bacteria: Characterization of a Mn-Regulated Small Protein and Identification of Novel Mn Exporters.” Cottrell Scholars Conference *Building Bridges*, Westin La Paloma, Tucson, AZ. *(Oral and poster presentations)*

Selected Presentations (continued)

† denotes mentored student

**Lauren Waters.** (2016) “Metal homeostasis across bacteria: from RNA to proteins.” Concordia University Physical Sciences Seminar Series, Mequon, WI. *(Oral presentation*)

Rilee Zeinert†, Taylor Truttmann†, Katherine Senn†, Eli Martinez†, Adrian Landreth†, Ross Denholm†, Bakhtawar Usman†, Patrick Miller†, **Lauren Waters.** (2016) “Metal Homeostasis in *E. coli* and Beyond.” Molecular Genetics of Bacteria and Phages Meeting, Madison, WI. *(Poster presentation)*

**Jennifer Schmitz†**, Eli Martinez†, Lauren Waters. (2016) “Manganese Export Across Bacterial Species.” Molecular Genetics of Bacteria and Phages Meeting, Madison, WI. *(Poster presentation)*

**Lauren Waters.** (2016) “Regulation of Mn metabolism in bacteria: from a small RNA to a small protein to riboswitches.” East Carolina University Seminar Series, Greenville, NC. *(Oral presentation*)

**Eli Martinez†**, Rilee Zeinert†, Jennifer Schmitz†, Joseph Draven†, Lauren Waters. (2016) “Structure-Function Analysis of Manganese Exporter Proteins and Their Contribution to Reactive Oxygen Species Survival”, American Society for Biochemistry and Molecular Biology Annual Meeting, San Diego, CA. *(Poster presentation)*

**Eli Martinez†**, Rilee Zeinert†, Jennifer Schmitz†, Joseph Draven†, Lauren Waters. (2016) “Structure-Function Analysis of Manganese Exporter Proteins and Their Contribution to Reactive Oxygen Species Survival”, University of Wisconsin Oshkosh Celebration of Scholarship, Oshkosh, WI. *(Poster presentation)*

**Katherine Senn†**, Lauren Waters. (2016) “Characterization of Protein Isoforms Involved in Manganese Homeostasis in *Escherichia coli*.” Annual UW System Symposium for Undergraduate Research and Creative Activity, Stevens Point, WI and University of Wisconsin Oshkosh Celebration of Scholarship, Oshkosh, WI.

*(2 Poster presentations*)

**Jennifer Schmitz†**, Lauren Waters. (2016) “Investigating Potential Novel Manganese Exporters Controlled by Riboswitch Mechanisms in an Array of Bacterial Species” Annual UW System Symposium for Undergraduate Research and Creative Activity, Stevens Point, WI and University of Wisconsin Oshkosh Celebration of Scholarship, Oshkosh, WI. *(2 Poster presentations*)

**Kyle Dobson†**, Lauren Waters, Eric Matson. (2016) “Mutagenicity Potential of Piperazine Smart Drugs Using the Ames *Salmonella*/Microsome Assay” University of Wisconsin Oshkosh Celebration of Scholarship, Oshkosh, WI. *(Poster presentation*)

**Jennifer Schmitz†**, Lauren Waters. (2016) “Investigating Novel Manganese Exporters Controlled by Riboswitch Mechanisms in an Array of Bacterial Species” University of Wisconsin Oshkosh Honors Thesis Symposium and Chemistry Seminar, Oshkosh, WI. *(2 Oral presentations*)

**Lauren Waters.** (2015) “Regulation of Mn metabolism in bacteria: from a small RNA to a small protein to riboswitches.” University of Wisconsin Madison *E. coli* Club, Madison, WI. *(Oral presentation*)

**Lauren Waters.** (2015) “Regulation of Mn metabolism in bacteria: from a small RNA to a small protein to riboswitches.” Ohio University Research Seminar Series, Athens, OH. *(Oral presentation*)

**Eli Martinez†**, Lauren Waters. (2015) “Topological analysis of a manganese exporter protein, MntP, in *Escherichia coli*, and its response to Reactive Oxygen Species.” University of Wisconsin Oshkosh McNair Showcase, Oshkosh, WI. *(Oral and poster presentation*)

Selected Presentations (continued)

† denotes mentored student

Rilee Zeinert**†**, Taylor Truttmann**†**, Katherine Senn**†**, Patrick Miller**†**, **Lauren Waters.** (2015) “Metal Homeostasis in *E. coli*: the Predicted Manganese Chaperone, MntS, and the Manganese Exporter, MntP.” Wind River Conference on Prokaryotic Biology, Aspen Lodge, CO. *(Oral presentation*)

Rilee Zeinert**†**, Taylor Truttmann**†, Lauren Waters**. (2014) “Metal Homeostasis in *E. coli*: the Predicted Manganese Chaperone, MntS, and the Manganese Exporter, MntP.” Molecular Genetics of Bacteria and Phages Meeting, Madison, WI. *(Poster presentation)*

**Rilee Zeinert†**, Lauren Waters. (2014) “Elucidating the Structure and Function of MntP: A Manganese Export Protein.” University of Wisconsin Oshkosh Chemistry Seminar, Oshkosh, WI. *(Oral presentation)*

**Rilee Zeinert†**, Lauren Waters. (2014) “Elucidating the Structure and Function of MntP: A Manganese Export Protein”, University of Wisconsin Oshkosh Celebration of Scholarship, Oshkosh, WI. *(Poster presentation)*

**Taylor Truttmann†**, Lauren Waters. (2014) “Finding Specific Proteins That Bind to the Small Protein MntS in the Model Bacterium *Escherichia coli*.” Annual UW System Symposium for Undergraduate Research and Creative Activity, Milwaukee, WI and University of Wisconsin Oshkosh Celebration of Scholarship, Oshkosh, WI. *(2 Poster presentations)*

**Rilee Zeinert†**, Lauren Waters. (2013) “Characterization of the MntP Manganese Export Protein in *Escherichia coli*.” University of Wisconsin Oshkosh McNair Showcase, Oshkosh, WI. *(Poster presentation)*

Rilee Zeinert†, Patrick Miller†, **Lauren S Waters**. (2013) “Characterization of Two New *E. coli* Manganese Homeostasis Proteins: the Predicted Manganese Chaperone, MntS, and the Manganese Exporter, MntP.” Molecular Genetics of Bacteria and Phages Meeting, Madison, WI. *(Poster presentation)*

**Kelly Genskow†**, Lauren Waters. (2013) “The *Escherichia coli* Small Protein MntS and Its Role in Manganese Homeostasis.” University of Wisconsin Oshkosh Honors Thesis Symposium and Chemistry Seminar, Oshkosh, WI. *(2 Oral presentations)*

**Kelly Genskow†**, Lauren Waters. (2013) “The *Escherichia coli* Small Protein MntS and Its Role in Manganese Homeostasis.” National Conference on Undergraduate Research, La Crosse, WI and University of Wisconsin Oshkosh Celebration of Scholarship, Oshkosh, WI. *(2 Poster presentations)*

**Patrick Miller†**, Lauren Waters. (2013) “Important Amino Acids Found In Manganese Transport Protein Pump.” Celebration of Scholarship, University of Wisconsin Oshkosh, Oshkosh, WI. *(Poster presentation)*

**Lauren S Waters**. (2012) “Regulation of Manganese Metabolism in *E. coli*: from small RNAs to small proteins to riboswitches.” University of Wisconsin Oshkosh Chemistry Department Seminar, Oshkosh, WI. *(Oral presentation)*

**Lauren S Waters**, Melissa Sandoval†, Gisela Storz. (2011) “Expanding the Manganese Regulon in *Escherichia coli*: a New Small Protein, MntS and Efflux Pump, MntP.” Cell Biology of Metals Gordon Conference, Salve Regina, Newport, RI. *(Poster presentation)*

**Lauren S Waters**, Melissa Sandoval†, Gisela Storz. (2011) “Regulation of Manganese Metabolism in *Escherichia coli*: from small RNAs to small proteins to riboswitches.” PRAT Symposium, NIH, Bethesda, MD. *(Oral presentation)*

Selected Presentations (continued)

† denotes mentored student

**Lauren S Waters**, Melissa Sandoval†, Gisela Storz. (2011) “Regulation of Manganese Metabolism in *Escherichia coli*: from small RNAs to small proteins to riboswitches.” Lambda Lunch Seminar Series, NIH, Bethesda, MD. *(Oral presentation)*

**Lauren Waters**, Gisela Storz. (2010) “Characterization of a Novel Manganese-Regulated Small Protein in *Escherichia coli*.” Microbial Stress Response Gordon Conference, Mount Holyoke College, South Hadley, MA. *(Poster presentation)*

**Lauren Waters**, Mitsuoki Kawano, Gisela Storz. (2009) “Novel Ribosome-Associated Small RNA in *Escherichia coli*.” Molecular Genetics of Bacteria and Phages Meeting, Madison, WI. *(Oral presentation)*

**Lauren Waters**, Gisela Storz. (2008) “Characterization of the Unusual RyfD Small RNA.” Invited Research Seminar, MIT, Cambridge, MA. *(Oral presentation)*

**Lauren Waters**, Mitsuoki Kawano, Gisela Storz. (2008) “Characterization of the Small RNA RyfD in *Escherichia coli*.” American Society for Microbiology 108th General Meeting, Boston, MA. *(Poster presentation)*

**Lauren Waters**, Mitsuoki Kawano, Gisela Storz. (2007) “Role of the Small RNA RyfD in the Stress Responses of E. coli.” 15th Annual International Conference on Microbial Genomes, College Park, MD. *(Poster presentation)*

**Lauren Waters**, Graham C. Walker. (2006) “Novel Cell Cycle Regulation of the Mutagenic Translesion DNA Polymerase Rev1.” Yeast Genetics and Molecular Biology Meeting, Princeton, NJ. *(Oral presentation)*

**Lauren Waters**, Graham C. Walker. (2005) “Unexpected Cell Cycle Regulation of the Translesion Polymerase Rev1: Implications for Mutagenesis.” Boston-area DNA Repair and Mutagenesis meeting, Boston, MA. *(Oral presentation)*

**Lauren Waters**, Meisha Bynoe†, Graham C. Walker. (2004) “Novel Cell Cycle Regulation and Characterization of the Yeast Translesion Polymerase, Rev1.” ASM Conference on DNA Repair and Mutagenesis, Southampton, Bermuda. *(Poster presentation)*

Teaching Experience and Training

**University of Wisconsin Oshkosh, Oshkosh, WI**

Lab and discussion instructor, CHEM 105 General Chemistry I

Lab and discussion instructor, CHEM 106 General Chemistry II

Lead instructor, CHEM 303 Introductory Biochemistry I: Clinical Emphasis

Lead instructor, CHEM 304 Biochemistry Laboratory

Lead instructor, CHEM 315 Advanced Biochemistry II

**National Institutes of Health, Bethesda, MD**

Instructor, Introductory Molecular Biology and Genetics

Instructor, Becoming a Successful Scientist

**Massachusetts Institute of Technology, Cambridge, MA**

Participant, Concept-Centered Teaching

Instructor, MIT High School Summer Workshop on Meiosis

Teaching Assistant, General Biochemistry

Teaching Assistant, Experimental Microbial Genetics Project Lab

Mentoring Experience

**Supervisor, undergraduate students (University of Wisconsin Oshkosh)**

Kelly Genskow, Honors Thesis (2012 – 2013)

Patrick Miller (2012 – 2013)

Taylor Truttman (2013 – 2014)

Rilee Zeinert, McNair Scholars Program (2013 – 2014)

Holly Post (2014)

Joseph Draven (2014 – 2016)

Katherine Senn, Honors Thesis (2014 – 2017)

Jen Schmitz, Honors Thesis (2014 – 2016)

Ross Denholm (2015)

Ricky Maki (2015)

Eli Martinez, McNair Scholars Program (2015 – 2016)

Adrian Landreth (2015)

Val Knutson (2016)

Erin O’Connell (2016)

Bakhtawar Usman (2016 – 2017)

Hannah Williams (2016)

Brett Mittelstedt (2017 – 2018)

Nathan Witman, Honors Thesis (2017 – 2018)

Luke Seuffer (2018 – 2019)

Becca Amick, Honors Thesis (2018 – 2019)

Payeng Lor (2018)

Kimberly Preissner (2018)

Mollie Jentz (2019)

Kalista Paszczak, Honors Thesis (2019)

Mentoring Experience (Continued)

**Supervisor, post-baccalaureate students**

Melissa Sandoval, National Institutes of Health, Bethesda, MD (Summer 2009, 2010 – 2012)

Lisa Stamper, National Institutes of Health, Bethesda, MD (2007 – 2008)

**Supervisor, undergraduate students**

Meisha Bynoe, Massachusetts Institute of Technology, Cambridge, MA (2004 – 2005)

Allison Mo, Massachusetts Institute of Technology, Cambridge, MA (2002 – 2003)

**Supervisor, graduate rotation students**

Mary Ellen Wiltrout, Massachusetts Institute of Technology, Cambridge, MA (Spring 2004)

Susan Cohen, Massachusetts Institute of Technology, Cambridge, MA (Spring 2003)

Awards and Honors

Mentor of the Year, National Institute for Child Health and Human Development (2011)

Fellows Award for Research Excellence (FARE) (2011)

Fellows Award for Research Excellence (FARE) (2008)

American Society for Microbiology Travel Grant to the DNA Repair and Mutagenesis Meeting (2004)

Phi Beta Kappa National Honor Society (2000)

Cornell University Dean’s List (1996 – 2000)

Professional Development

Cottrell Scholars Science Communication Workshop (2019)

Cottrell Scholars Annual Conference (2018)

IMAGE Grant Writing Workshop, ASBMB (2018)

Cottrell Scholars Annual Conference (2016)

Provost’s Teaching and Learning Summit on Sustainability (2016)

UW Oshkosh Inclusive Excellence Workshop (2016)

WiSCUR Conference on Course-Embedded Undergraduate Research (2015)

UW Oshkosh STEM Teaching Certificate (2015)

UW System Women & Science Spring Conference (2014)

“Workshop on Innovative Teaching in Large Courses”, UWO (2014)

“Online Homework: Assessing Student Participation and Outcomes”, NISOD/Purdue webinar (2013)

“Beginning a Research Program in the Natural Sciences”, Council on Undergraduate Research (2012)

“Grantsmanship”, Seminar and Round Table Discussion with NIGMS Program Officers, NIH (2011)

“Developing Teaching Statements, Syllabi, and Curricula”, NIH (2009)

“Conflict and Collaboration”, NIH (2009)

“Grant Writing 101—Parts I and II”, NIH (2009)

“Scientists Teaching Science”, NIH (2008)

Howard Hughes Medical Institute Education Seminar Series at MIT (2004, 2005)

Service and Outreach

Manuscript Reviewer for *Journal of Bacteriology* (2019)

Proposal Reviewer for UW Oshkosh Faculty Development Grants (2019)

Poster Judge for UW Oshkosh Celebration of Scholarship (2018)

Ad Hoc CAREER Grant Reviewer for the National Science Foundation (2018)

Proposal Reviewer for UW Oshkosh Faculty Development Grants (2018)

Proposal Reviewer for UW Oshkosh Student-Faculty Collaborative Grants (2018)

Fellowship Reviewer for SDE/GWIS (Sigma Delta Epsilon/Graduate Women in Science) (2018)

Panelist for UW System Women & Science Advancing Young Women in STEM (2018)

Member of the UW Oshkosh Institutional Biosafety Committee (2017 – present)

Grant Reviewer for UW Oshkosh Small Grants (2017)

Book Chapter Reviewer for American Chemical Society Books (2017)

Ad Hoc Grant Reviewer for the National Science Foundation (2016)

Manuscript Reviewer for *Microbiological Research* and *Molecular Microbe-Plant Interactions* (2016)

Fellowship Reviewer for SDE/GWIS (Sigma Delta Epsilon/Graduate Women in Science) (2016)

Poster Judge for the 9th Annual Wisconsin Science and Technology Symposium (2016)

Proposal Reviewer for UW Oshkosh Student-Faculty Collaborative Grants (2014)

Manuscript Reviewer for *Molecular Microbiology* (2013)

Fellowship Reviewer for SDE/GWIS (Sigma Delta Epsilon/Graduate Women in Science) (2013)

Textbook Reviewer for *Molecular Biology: Principles of Genome Function 2nd Ed.* by Craig *et al.* (2013)

NIH Fellows Award for Research Excellence (FARE) Award Judge, NIH (2009)

NIH Postbaccalaureate Poster Session Judge, NIH (2009)

Professional Societies

Member of the American Society for Biochemistry and Molecular Biology (2013 – present)

Member of the American Chemical Society (2013 – present)

Member of the Council for Undergraduate Research (2012 – present)

Member of the American Society of Microbiology (2003 – present)