

Jessica Irons

Curriculum Vitae

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Athens, GA 30606

Education

Ph.D. Candidate 2014-present
Department of Microbiology
University of Georgia, Athens, GA

Bachelor of Science, Biology 2009-2012
Warren Wilson College, Asheville, NC

Research Experience

Dr. Diana Downs 2014 - Present
University of Georgia, Athens, GA

Richard Gourse Laboratory, Department of Microbiology May-August 2010 and 2011
University of Wisconsin, Madison WI
Investigated the structure-function relationship of annotated *Rhodobacter sphaeroides dksA* as compared to *Escherichia coli dskA*

James Onoda, Department of Biology May-August 2009
DePaul University/Harry Truman College, Chicago, IL
Environmental survey of Chicago air and water quality

Professional Laboratory Experience

Laboratory Technician/Analytical Chemist April 2013 – August 2014
DuPont Industrial Biosciences, Vonore, TN
Worked with bioengineers to determine changing variables for saccharification and fermentation

Quality Control Laboratory Technician/Analytical Chemist June 2012 – April 2013
Tate & Lyle Ingredients, Loudon, TN,
Performed qualitative and quantitative analysis of in-process and final samples

Chemistry Laboratory Assistant October 2009- May 2010
Warren Wilson College, Asheville, NC,
Assisted two General Chemistry laboratories, tutored students, and graded student reports

Publications

Lennon CW, Lemmer KC, Irons JL, Sellman MI, Donohue TJ, Gourse RL, Ross W. A *Rhodobacter sphaeroides* Protein Mechanistically Similar to *Escherichia coli* DksA Regulates Photosynthetic Growth. MBio. 2014 Apr 29;5(3):E01105-14

Presentations and Conferences

ASM Microbe, Atlanta GA June 2018
Poster: Characterization of the *Pseudomonas aeruginosa* RidA Homolog, PA5339

Women in STEM Leadership Summit, Atlanta, GA March 2017
Attendance

Department of Microbiology Seminar, University of Georgia, Athens, GA
Talk: Context-dependent function of yeast THI5 protein in *Salmonella enterica* April 2017

Wind River Conference on Prokaryotic Biology, Estes Park, CO.
Poster: Perturbation of the metabolic network in *Salmonella enterica* allows function of the heterologous enzyme, Thi5p June 2016

Department of Microbiology Seminar, University of Georgia, Athens, GA
Talk: Uncovering the Unknown Role of Transcription Factor, SgrR November 2015

North Carolina Academy of Science, Campbell University Buies Creek, NC March 2012
Poster: *Elucidation of the Structure-Function Relationship of Rhodobacter sphaeroides DksA*

Natural Science Seminar, Warren Wilson College Asheville, NC September 2011
Talk: *Elucidation of the Structure-Function Relationship of Rhodobacter sphaeroides DksA as compared to Escherichia coli DksA*

NSF REU Symposium, University of Wisconsin Madison, WI August 2011
Talk: *Elucidation of the Structure-Function Relationship of Rhodobacter sphaeroides DksA as compared to Escherichia coli DksA*

NSF REU Symposium, University of Wisconsin Madison, WI August 2010
Talk: *Elucidation of the Structure-Function Relationship of Rhodobacter sphaeroides DksA*

Chicago Initiative for Research and Recruitment in Undergraduate Science Symposium, DePaul University Chicago, IL August 2009
Poster: *An Environmental Survey: Ambient Air Quality in Chicago*

Awards and Honors

University of Georgia Graduate Student Travel Award March 2017
Women in STEM Leadership Conference Travel Award March 2017
Wind River Prokaryotic Biology Conference Travel Award Summer 2016
Graduated with Honors in Biology, Warren Wilson College May 2012
Phi Theta Kappa National Honor Society, Harry Truman College 2008 and 2009

Mentoring

Natasha, Young Dawgs High school student researcher

2016

Becca, National Science Foundation researcher

2017

Kenton, National Science Foundation researcher

2017

Rebecca, University of Georgia student researcher

2017-2018