

JANNELL V. BAZURTO

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EDUCATION

Ph.D., Microbiology, May 2013
University of Wisconsin, Madison, WI

B.S., Molecular Biology and Microbiology, May 2003
Certificate in Biotechnology
Florida Atlantic University, Boca Raton, FL

RESEARCH EXPERIENCE

2013-present UNIVERSITY OF GEORGIA, Athens, GA
Postdoctoral Research Associate (lab of Dr. Diana Downs)
Characterizing the complex effects of AICAR accumulation on the metabolic network of *Salmonella enterica*.

2013-present UNIVERSITY OF TENNESSEE, Knoxville, TN
Visiting Scientist (lab of Dr. Shawn Campagna)
Using Metabolomics approaches for on-going collaborations aimed at characterizing the consequences of specific perturbations to the metabolic network of *Salmonella enterica* and *Escherichia coli*.

2007-2013 UNIVERSITY OF WISCONSIN, Madison, WI
Graduate Student (lab of Dr. Diana Downs)
Exploring metabolic integration and redundancy surrounding thiamine biosynthesis in *Salmonella enterica* and *Escherichia coli*.

2005-2006 FLORIDA ATLANTIC UNIVERSITY, Boca Raton, FL
Independent Study in Molecular Genetics (lab of Dr. Theodor Haerry)
Studying a novel component in TGF- β pathway in *Drosophila melanogaster*.

2003-2006 HOME DIAGNOSTICS, INC. Ft. Lauderdale, FL
Research and Development Chemist I
Developing chromogenic, semi-quantitative ketone body test for urinalysis.
Reformulating chemistry for electrochemical glucose assay in blood glucose meter

PUBLICATIONS

Bazurto J. V. and D. M. Downs. 2013. Amino-4-imidazolecarboxamide ribotide (AICAR) directly inhibits coenzyme A biosynthesis in *Salmonella enterica*. J. Bacteriol. 4(196):772-9.

Bazurto J. V. and D. M. Downs. 2011. Plasticity in the Purine–Thiamine Metabolic Network of *Salmonella*. *Genetics*. 187:623-631.

Bazurto J. V. and D. M. Downs. 2011. Crosstalk. *Brenner's Encyclopedia of Genetics*. San Diego, CA: Academic Press, 2013. Print.

FELLOWSHIPS, AWARDS & HONORS

2006-2008, 2012-2013	Advanced Opportunity Fellowship
2008-2011	NIH Biotechnology Training Grant
2011-2012	Jerome J. Stefaniak Predoctoral Fellowship
2008, 2009	Bacteriology Department Travel Grant Recipient
2008, 2009	Wind River Conference Student Travel Grant Recipient
2001-2003	Phi Kappa Phi Honor Society
2001-2003	Golden Key Honor Society
2005	Promotion to Chemist I
2005	Level 2 Discretionary Bonus Award

ORAL PRESENTATIONS

- 2013 “Complex effects of AICAR on the metabolic network of *Salmonella enterica*.” Analytical Genetics Meeting, Alta, UT.
- 2013 “The opposing effects of AICAR accumulation on the metabolic network surrounding thiamine synthesis.” Microbiology Doctoral Thesis Defense, University of Wisconsin.
- 2011 “Probing Metabolic Integration in *Salmonella enterica*.” NIH Biotechnology Training Program Student Seminar Series, University of Wisconsin.
- 2010 “Synthesis of the Thiamine Intermediate 5-Aminoimidazole Ribotide (AIR) by a Mechanism that Requires Flux through Histidine Biosynthesis.” Microbiology Doctoral Training Program Student Seminar Series, University of Wisconsin.
- 2009 “Dissecting the Robust Metabolism of *Salmonella enterica*: An alternate route to aminoimidazole ribotide.” 53rd Annual Wind River Conference on Prokaryotic Biology, Estes Park, CO.
- 2009 “Probing the Metabolic Network in *Salmonella enterica*.” Annual Department of Bacteriology Retreat, University of Wisconsin.
- 2009 “Integration of Metabolic Pathways: One Example of How *Salmonella enterica* has Engineered a Robust System.” NIH Biotechnology Training Program Student Seminar Series, University of Wisconsin.
- 2008 “A New Route to the Branchpoint Metabolite Aminoimidazole Ribonucleotide.” Microbiology Doctoral Training Program Student Seminar Series, University of Wisconsin.

- 2008 “Comparative Analysis of the Metabolic Network Surrounding Thiamine Biosynthesis in *Salmonella enterica* and *Escherichia coli*.” 52nd Annual Wind River Conference on Prokaryotic Biology, Estes Park, CO.
- 2008 “Comparative Analysis of Thiamine Biosynthesis in Three Model Organisms.” NIH-Biotechnology Training Program Student Seminar Series. University of Wisconsin.

TEACHING/MENTORING EXPERIENCE

- 2013-present Kristen Farley, Undergraduate, University of Georgia.
2013-2014 Courtney Matheny, Undergraduate, University of Georgia.
Summer 2013 Melene Thompson, NSF research experience for undergraduates, University of Georgia.
2008-2011 Nicholas Heitman, Undergraduate, University of Wisconsin.
Summer 2008 Cierra Sing, NSF research experience for undergraduates, University of Wisconsin.
Spring 2008 Teaching Assistant, General Microbiology Laboratory, University of Wisconsin.
Fall 2007 Teaching Assistant, Food Microbiology Laboratory, University of Wisconsin.

PROFESSIONAL DEVELOPMENT

- 2013-present Editorial Assitant, Microbiology and Molecular Biology Reviews.
2012 Comparative Genomics Workshop, University of Florida, Gainesville, FL.
2008 Mentoring Course, Wisconsin Program for Scientific Teaching, University of Wisconsin.
2007 Scientific Ethics Course, University of Wisconsin.

DEPARTMENTAL SERVICE & OUTREACH

- 2012 Committee Member, Selection of participants for International Research Experience for Students in Microbiology
2007-2011 Student Host, Microbiology Doctoral Training Program Recruitment, University of Wisconsin.
2011 Panel Member, Microbiology Doctoral Training Program Recruitment, University of Wisconsin.
2009 Volunteer, Darwin Day, University of Wisconsin.
2007 Recruiter for underrepresented undergraduate students at Annual Biomedical Research Conference for Minority Students, Austin, TX.

REFERENCES

Dr. Diana M. Downs, Postdoctoral Advisor (2013-present) and Thesis Advisor (2007-2013)
Professor
Department of Microbiology
University of Georgia (previously University of Wisconsin)
(706) 542-9573
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Dr. Jorge E. Escalante, Thesis Committee Member (2007-2013)
Professor
Department of Microbiology

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Dr. Michael G. Thomas, Thesis Committee Member (2007-2013)
Professor
Department of Bacteriology
University of Wisconsin-Madison
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