

Gary M Wilson

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Education

University of Wisconsin-Madison

Madison, WI

DOCTOR OF PHILOSOPHY (PHD) – CHEMICAL BIOLOGY

In progress

- **Advisor:** Joshua J. Coon, PhD
- NIH Biotechnology Training Grant Fellow

Wake Forest University

Winston-Salem, NC

BACHELOR OF SCIENCE (BSC) – CHEMISTRY & BIOCHEMISTRY

05/2010

- **Advisor:** Ulrich Bierbach, PhD
- Undergraduate Research Fellow

Experience

Coon Lab

Madison, WI

GRADUATE RESEARCH ASSISTANT

05/2016–present

- Developed, optimized, and implemented state-of-the-art mass spectrometry-based proteomic experiments to inform upon a range of biological studies.

Warp Drive Bio

Cambridge, MA

CHEMIST I

10/2012–5/2015

- Purified and characterized novel, medicinal natural products from complex, cellular matrices.
- Became versed in chromatographic techniques, instrument repair, and NMR structure elucidation.

Johnson Matthey Pharma Services

Devens, MA

ORGANIC CHEMIST

02/2012–5/2015

- Produced synthetic GMP material; working on scales from milligrams to kilograms.
- Optimized future GMP campaigns at the bench-top.

Cardinal Academics

Los Angeles, CA

TUTOR

01/2011–01/2012

- Provided tutoring for students in math, science, and SAT preparation.

Vertex Pharmaceuticals

Cambridge, MA

SCIENTIFIC ASSOCIATE II

06/2010–10/2010

- Performed analytical and preparative supercritical fluid chromatography to assist in the projects of Chemical Development.
- Trained on cGMP SOPs for the quality production of drug product.

Bierbach Lab

Winston-Salem, NC

UNDERGRADUTE RESEARCH FELLOW

2008-2010

- Synthesized cisplatin derivatives with Pf. Ulrich Bierbach for the structure-activity relationship analysis in the targeted treatment of non-small cell lung cancer.
- Developed new synthetic methodologies to produce amidine derivatives using metal-mediated catalysis.

Wake Forest University

Winston-Salem, NC

UNDERGRADUATE TUTORING SERVICE

01/2008–05/2010

- Provided peer tutoring to fellow Wake Forest and local high school students.

Talks, Publications, & Abstracts

INVITED TALKS

- T1 “Improved plasma proteomics enables the investigation into Alzheimer’s Disease progression.” Keystone Symposia: Omics Strategies to Study the Proteome. Breckenridge, CO. Feb 01, 2017.

PEER-REVIEWED PUBLICATIONS

- P3 **Wilson GM**, Rocky Blanco, Joshua J. Coon, Troy A. Hornberger. "Identifying Novel Signaling Pathways: An Exercise Scientists Guide to Phosphoproteomics." *Under review*.
- P2 Christopher P Lapointe, Jonathan A Stephely, Adam Jochem, Paul D Hutchins, **GM Wilson**, Nicholas W Kwiecien, Joshua J Coon, Marvin P Wickens, and David J Pagliarini. "Transomic analyses reveal the roles of Puf3p in orchestrating mitochondrial biogenesis." *Under review*.
- P1 L.A. Graham, **GM Wilson**, T. K. West, C.S. Day, G.L. Kucera, and U. Bierbach. "Unusual Reactivity of a Potent Platinum-Acridine Hybrid Antitumor Agent." *ACS Med. Chem. Lett.*, 2011, 2:687. DOI: 10.1021/ml200104h

ABSTRACTS

- A2 **Wilson GM**, Evgenia Shishkova, Burcu F. Darst, Alexander S. Hebert, Michael S. Westphall, Sterling C. Johnson, Kirk J. Hogan, Corinne D. Engelman, and Joshua J. Coon. "Improved plasma proteomics enables the investigation into Alzheimer's Disease progression." Presented at: Keystone Symposia: Omics strategies to study the proteome, Breckenridge, CO; Feb 1, 2017.
- A1 **Wilson GM**, Evgenia Shishkova, Alexander S. Hebert, Michael S. Westphall, and Joshua J. Coon. "Rapid proteomic profiling of human blood plasma." Presented at: American Society of Mass Spectrometry; San Antonio, TX; Jun 9, 2016.

Honors & Awards

Biotechnology Training Grant Predoctoral Fellowship	National Institutes of Health, NIGMS – UW-Madison	01/2016–present
Winner, Bluesky Research Proposal: "Unbounded science: Reimagining the Possible"	Warp Drive Bio	2013
Undergraduate Research Fellowship	Wake Forest University	2008, 2009
Academic Dean's List	Wake Forest University	2006-2010

Service & Outreach

Book'n It Run – Sun Prairie, WI

COURSE VOLUNTEER

2017

Crazy Legs – Madison, WI

COURSE VOLUNTEER

2016

Warp Drive Bio

SAFETY REPRESENTATIVE

02/2013–05/2015

- Coordinated with outside consultants to advise on the best practices for safe operating conditions and waste containment and removal.

Teaching Experience

UW-Madison

TEACHING ASSISTANT

- Chemistry 344: Organic Chemistry (SU,FA 2015)

Professional Societies & Groups

International Chemical Biology Society	2016–present
Computational Biology, Ecology, & Evolution (ComBEE) – UW-Madison	2016–present
American Society of Mass Spectrometry	2015–present
American Chemical Society	2008–present