

Former Graduate Student Directory (last name alphabetical)

* Contact information listed as available.

Dorothy Ahlf

- Dorothy was a member of the Top Down Subgroup. She earned her PhD in 2012 with a dissertation titled "Expanding the Coverage of Top Down Proteomics to Study Cellular Decision Making During Adoption of Anti-Proliferative States". She is now a Postdoctoral Associate at the University of Notre Dame.

Jessica Albright

- jessicalbright2014@u.northwestern.edu

Michael Boyne

- Dr. Boyne was a graduate student in the Kelleher Lab at the University of Illinois Urbana-Champaign. He received his PhD from the Department of Chemistry in 2008 with a dissertation entitled "Development and Application of Next Generation Mass Spectrometry for Protein Analysis at High-Resolution". He is now at the Food and Drug Administration.

Courtney Bullock

- Courtney was a graduate student in the Kelleher Lab at the University of Illinois Urbana-Champaign. She received her Master's Degree from the Department of Chemistry in 2006 with a thesis entitled "Dynamics of Post-Translational Modifications on Human Histone H4 Through the Cell Cycle". She is now in the United States Air Force.

Stefanie Bumpus

- Dr. Bumpus was a graduate student in the Kelleher Lab at the University of Illinois Urbana-Champaign. She received her PhD from the Department of Chemistry in 2010 with a dissertation entitled "Studies of New Natural Products and the Biosynthesis Spearheaded by High-Resolution Mass Spectrometry". She is now an a Global Health Security Analyst at the Centers for Disease Control and Prevention.

Adam Catherman

- Adam was a member of the Top Down subgroup. He earned his PhD in 2013 with a dissertation titled, "Expanding the Utility of Top Down Proteomics for the Analysis of Mammalian Proteomes". He is now an Associate Scientist at Genentech.

Benjamin Cargile

- Ben was a graduate student in the Kelleher Lab at the University of Illinois Urbana-Champaign. He received his Master's Degree from the Department of Biochemistry in 2002.

Yunqiu Chen

- Yunqiu Chen earned her B.Sci. in Chemical Biology from Tsinghua University, China. During her undergraduate studies, she worked with Prof. Zhanglin Lin on directed evolution of industrial enzymes. In 2008, she came to the US and began her Ph.D. study in the Kelleher lab at University of Illinois at Urbana-Champaign and later at Northwestern University. Her research was focused mainly on the discovery and characterization of two classes of natural products, nonribosomal peptides and polyketides, using proteomics-based methods. She earned her PhD in 2013 with a

dissertation titled, "Proteomics Guided Discovery of Nonribosomal Peptide and Polyketide Type Natural Products from Actinobacteria". She is now a Senior Research Scientist at Biogen Idec.

Yi Du

- Dr. Du was a graduate student in the Kelleher Lab at the University of Illinois Urbana-Champaign. He received his PhD from the Department of Chemistry in 2005 with a dissertation entitled "Interrogation of Yeast Responses to Anaerobic Growth Conditions at the Intact Protein Level Using Improved Top-Down Proteomics". He is now at Merck Research Laboratories.

Ken Durbin

Bradley Evans

- Dr. Evans was a graduate student in the Kelleher Lab at the University of Illinois Urbana-Champaign. He received his PhD from the Department of Biochemistry in 2010 with a dissertation entitled "Reengineering and Discovery of Nonribosomal Peptide Synthetases". He is now the Director of Proteomics and Mass Spectrometry at the Donald Danforth Plant Science Center.

Jonathan Ferguson

- Dr. Ferguson was a graduate student in the Kelleher Lab at the University of Illinois Urbana-Champaign. He received his PhD from the Department of Chemistry in 2008 with a dissertation entitled "Top Down Proteomics: Separation and Mass Spectral Characterization of Complex Cell Lysates from Methanosarcina acetivorans and Human Cancer Cells". He is now at Thermo Fisher Scientific.

Andrew Forbes

- Dr. Forbes was a graduate student in the Kelleher Lab at the University of Illinois Urbana-Champaign. He received his PhD from the Department of Chemistry in 2004 with a dissertation entitled "Top Down Mass Spectrometry of Archaea and Human Tumor Cells" and when on to complete the MD/PhD program at UIUC. He is now an Internal Medicine/Pediatrics resident at Indiana University Hospital.

Matt Henke

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Leslie Hicks

- Dr. Hicks was a graduate student in the Kelleher Lab at the University of Illinois Urbana-Champaign. She received her PhD from the Department of Chemistry in 2005 with a dissertation entitled "Mass Spectrometric Interrogation of Thioester-Bound Intermediates on Nonribosomal Peptide and Polyketide Assembly Lines". She is now at the Donald Danforth Plant Science Center in St. Louis, Missouri.
- Cong Wu earned his B.Sci. in Life Sciences from Fudan University in Shanghai, China. In 2012, he received his Ph.D in Biochemistry from University of Illinois at Urbana-Champaign. During his time in the Kelleher lab, he worked on the technology development of mass spectrometry-based proteomics, specifically the sample preparation front-end. He established the Middle Down proteomics platform using a novel protease, OmpT, to digest intact proteins into larger peptides than the traditional proteases used for proteomic analysis. This technique provides complementary biological information to what currently existing approaches provide.

John Kellie

- Dr. Kellie was a graduate student in the Kelleher Lab at Northwestern University. He received his PhD from the Department of Chemistry in 2012 with a dissertation entitled "Development and Application of Technology for Streamlining Top-Down Proteomics". He is now a Postdoctoral Fellow at Eli Lilly.

Yong-Bin Kim

- Dr. Kim was a graduate student in the Kelleher and Belford Labs at the University of Illinois Urbana-Champaign. He received his PhD from the Department of Computer Science in 2010 with a dissertation entitled "Database Support for Top-Down Proteomics". He is currently a Senior Engineer at Caterpillar.

Violet Lee

- Violet was a graduate student in the Kelleher Lab at the University of Illinois Urbana-Champaign. She received her Master's Degree from the Department of Chemistry in 2008 with a thesis entitled "A Study of Ribosomally and Nonribosomally Synthesized Natural Products Using High-Resolution Fourier Transform Mass Spectrometry". She went on to obtain his PhD from the Coon Lab at the University of Wisconsin in 2011 and now works as a research scientist at Codexis.

Mingxi Li

- Mingxi Li earned his B.Sci. in biology at Tsinghua University in Beijing, China. He began his Ph.D. research in biochemistry at University of Illinois at Urbana-Champaign under the supervision of Prof. Kelleher in 2006. His research focused on using high precision mass spectrometry technology to reveal the proteome changes in cancer and senescent cells. After obtaining his Ph.D. degree in 2011, he returned to China to work in the private equity industry.

Yun Li

- Yun worked with the Kelleher Lab as a graduate student under Dr. Geneva Belford at the University of Illinois Urbana-Champaign. He received his Master's Degree from the Department of Computer Sciences in 2002. He now works at Celera Genomes, Inc.

Matt Mazur

- Dr. Mazur was a graduate student in the Kelleher Lab at the University of Illinois Urbana-Champaign. He received his PhD from the Department of Chemistry in 2004 with a dissertation entitled "Mass Spectrometric Studies of Nonribosomal Assembly of Natural Products through Thiotemplate Biosynthesis". He is now at Imclone.

Ryan McClure

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Shaun McLoughlin

- Dr. McLoughlin was a graduate student in the Kelleher Lab at the University of Illinois Urbana-Champaign. He received his PhD from the Department of Chemistry in 2005 with a dissertation entitled "Mass Spectrometry and Thiotemplate Assembly: Unique Insights into the Production of Natural Products on >100 kDa Enzymes". He is now at Abbott Laboratory in Chicago, Illinois.

Fanyu Meng

- Dr. Meng was a graduate student in the Kelleher Lab at the University of Illinois Urbana-Champaign. He received his PhD from the Department of Chemistry in 2003 with a

dissertation entitled "Top Down Characterization of Proteins from *Saccharomyces cerevisiae*". He is now in the Biomarker Discovery Group at Merck & Co.

Leah Miller

- Dr. Miller was a graduate student in the Kelleher Lab at the University of Illinois Urbana-Champaign. She received her PhD from the Department of Chemistry in 2005 with a dissertation entitled "Investigating Antibiotic Biosynthesis Using Quadrupole-Fourier Transform Mass Spectrometry". She is now an Instructor at Albert Einstein College of Medicine in New York.

Steven Patrie

- Dr. Patrie was a graduate student in the Kelleher Lab at the University of Illinois Urbana-Champaign. He received his PhD from the Department of Chemistry in 2004 with a dissertation entitled "Design of the First Analytical Platform for Automated Top Down Proteomics with Quadrupole/Fourier Transform Ion Cyclotron Resonance Mass Spectrometry". He is now an Assistant Professor at the University of Texas Southwestern.

James Pesavento

- Dr. Pesavento was a graduate student in the Kelleher group. He completed his PhD in 2006 at the Center for Biophysics and Computational Biology at the University of Illinois Urbana-Champaign. His dissertation was entitled "Improved Dynamic Range, Quantitation, and Characterization of Histone H4 Post-Translational Modifications: A Top Down Mass Spectrometric Approach". Jim is now a postdoctoral fellow at the University of California Berkeley.

Dana Robinson

- Dr. Robinson was a graduate student in the Kelleher lab from 2004-2008 at the University of Illinois at Urbana-Champaign. He went on to complete his PhD in 2011 under Dr. Robert Gennis with a dissertation entitled "Automated Data Acquisition and Analysis for High-Resolution Fourier-Transform Mass Spectrometry of Proteins and Peptides".

Michael Roth

- Dr. Roth was a graduate student in the Kelleher Lab at the University of Illinois Urbana-Champaign. He received his PhD from the Department of Chemistry in 2007 with a dissertation entitled "Novel Applications of Top Down MS/MS for Interrogating the Human Proteome". He is the co-founder of Core Discoveries Consulting.

Owen Skinner

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Nertila Siuti

- Dr. Siuti was a graduate student in the Kelleher Lab at the University of Illinois Urbana-Champaign. She received her PhD from the Department of Biochemistry in 2008 with a dissertation entitled "From Technology to Chromatin Biology: Contemporary Mass Spectrometry of Histones and Chromatin Associated Proteins". She is now a staff scientist at Pfizer in La Jolla, CA.

Gregory Taylor

- Greg worked in the Kelleher Lab as a graduate student under Dr. Robert Steel at the University of Illinois Urbana-Champaign. He received his Master's Degree from the

Department of Computer Sciences in 2004. He is now a graduate student at the Fred Hutchinson Cancer Research Center.

Elizabeth Trippe

- Elizabeth was a graduate student in the Kelleher Lab at the University of Illinois Urbana-Champaign. She received her Master's Degree from the Department of Chemistry in 2005 and is currently a Chemical Educator at Gwinnett Technical College.

Derek van der Molen

- Derek was a graduate student in the Kelleher Lab at the University of Illinois Urbana-Champaign. He received his Master's Degree from the Department of Chemistry in 2002. He is now an instructor at Parkland Community College in Champaign, IL.

Craig Wegner

- Craig was a graduate student in the Kelleher Lab at the University of Illinois Urbana-Champaign. He received his Master's Degree from the Department of Chemistry in 2008 with a thesis entitled "Software Development for the Improvement of Liquid Chromatography-Mass Spectrometry in Proteomics and Small Molecules". He went on to obtain his PhD from the Coon Lab at the University of Wisconsin in 2011 and now works as a research scientist at Agilent.

Leonid Zamdborg

- Dr. Zamdborg was a graduate student in the Kelleher Lab at the University of Illinois Urbana-Champaign. He received his PhD from the Center for Biophysics and Computational Biology in 2011 with a dissertation entitled "The Complexity of Bioinformatics: Techniques for Addressing the Combinatorial Explosion in Proteomics and Genomics". He went on to complete the MD program at the University of Illinois Urbana-Champaign and is now a resident physician at Beaumont Health System.

Tyler Zimmerman