

WILFRED A. VAN DER DONK

University of Illinois at Urbana-Champaign
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Date of birth April 21, 1966

US citizen/Dutch citizen

EDUCATION

- 1989 B.Sc. & M.Sc., Leiden University, The Netherlands
Thesis Advisor: Prof. Jan Reedijk
Thesis Title: Model Complexes for Copper Metallo-Enzymes
- 1994 Ph.D., Rice University, Houston, Texas
Thesis Advisor: Prof. Kevin Burgess
Thesis Title: Transition Metal Catalyzed Hydroborations

POSITIONS SINCE FINAL DEGREE

- 1994-1997 Postdoctoral Fellow, Massachusetts Institute of Technology, Cambridge, MA
Advisor Prof. JoAnne Stubbe
Project: Mechanistic Studies on Ribonucleotide Reductase
- 1997-2003 Assistant Professor, Department of Chemistry
University of Illinois at Urbana-Champaign
- 2003-2005 Associate Professor, Department of Chemistry
University of Illinois at Urbana-Champaign
- 2005-2008 William H. and Janet Lycan Professor of Chemistry
University of Illinois at Urbana-Champaign
- 2007-present Professor, Institute for Genomic Biology
University of Illinois at Urbana-Champaign
- 2008-present Richard E. Heckert Endowed Chair in Chemistry
University of Illinois at Urbana-Champaign
- 2008-present Investigator, Howard Hughes Medical Institute

FELLOWSHIPS AND AWARDS

- 1989-1993 Robert A. Welch Predoctoral Fellowship
- 1991, 1994 Harry B. Weiser Scholarship for Excellence in Research (Rice University)
- 1994-1997 Postdoctoral Fellowship, Jane Coffin Childs Foundation for Medical Research
- 1997 Camille and Henry Dreyfus New Faculty Award
- 1998 Burroughs Wellcome New Investigator in the Pharmacological Sciences
- 1998 Research Innovation Award from the Research Corporation
- 1999 School of Chemical Sciences Teaching Award (U. Illinois)

1999 UIUC Research Board Beckman Award
1999 Arnold and Mabel Beckman Young Investigator Award
1999 3M Non-Tenured Faculty Award
2000 Cottrell Scholar of the Research Corporation
2001 Beckman Fellow, Center for Advanced Study, University of Illinois
2001 Alfred P. Sloan Fellowship
2001 Kavli Fellow, Chinese-American Symposium
2002 Camille Dreyfus Teacher-Scholar Award
2003 Helen Corley Petit Scholar
2004 Pfizer Award, American Chemical Society, Division of Biological Chemistry
2004 University Scholar, UIUC
2006 Cope Scholar Award, American Chemical Society
2007 Tetrahedron Young Investigator Award in Bioorganic & Medicinal Chemistry
2008 School of Chemical Sciences Teaching Award (U. Illinois)
2009 Organic and Biomolecular Chemistry Lecture Award, Royal Society of Chemistry
2010 Jeremy Knowles Award, Royal Society of Chemistry
2010 Fellow of the Royal Society of Chemistry
2011 Fellow of the American Academy of Microbiology
2012 Fellow of the American Association for the Advancement of Science
2013 Emil Thomas Kaiser Award, The Protein Society
2014 Member of the American Academy of Arts and Sciences
2015 Bioorganic Chemistry Award, the Royal Society of Chemistry
2016 NIGMS Merit Award
2017 Repligen Award, American Chemical Society
2017 Vincent du Vigneaud Award, American Peptide Society
2020 Harrison Howe Awardee, Rochester Section of the American Chemical Society
2020 Pedler Award, the Royal Society of Chemistry
2021 College of Liberal Arts and Sciences Impact Award for efforts during the COVID-19 pandemic
2021 Member of the National Academy of Sciences

SELECT SPECIAL LECTURES & SYMPOSIA

Halocarbon Lecture, Cornell University, September 26, 2024
Richard B. Turner Memorial Lecture, Rice University, March 8, 2023
O’Keeffe Lecture in Molecular Sciences, Arizona State University, February 10, 2023
Guy Lipscomb Lecture, University of South Carolina, November 4, 2022
Ionis Pharmaceuticals Lecture, University of California, Irvine, October 28, 2021
Calvin Lecture, University of California Berkeley, April 6, 2021
Schneller Frontiers Lecture, Auburn University, November 14, 2019
Rowena Matthews Lecture, University of Michigan, September 24, 2019
David Hopwood Lecture, John Innes Centre, UK, November 27, 2018
H.H. King Lecture, Kansas State University, November 9, 2018
John Daly Lecture, National Institutes of Health, October 26, 2018
Myron and Muriel Bender lectures, Northwestern University, August 6-7, 2018
J. Clarence Karcher Lecture, University of Oklahoma, December 8, 2017
Backer lecture, University of Groningen, the Netherlands, October 30, 2017
Albert Hofmann Award Lecture, University of Zürich, October 24, 2017
Nozaki Memorial lecture, Duke University, Department of Biochemistry, December 2, 2016

Peter Yates Memorial Lecture, University of Toronto, November 11, 2016
Andrew Braisted Lecture, UC Berkeley/UCSF, Oct 4, 2015
Novartis Lecture in Chemical Biology, Boston College, September 8, 2015
Frontiers in Chemistry Lectures, Texas A&M, April 6-8, 2015
Jerome A. Berson Lecture, Yale University, Department of Chemistry, March 3, 2015
CBI Program Symposium Keynote Lecturer, Harvard University, April 18-19, 2014
Genentech Lecture, The Scripps Research Institute, November 18, 2013
ACS Chem. Biol. Award Lecture 2013, ACS National Meeting, New Orleans, March 2013
Kharasch Visiting Professor, University of Chicago, January 2013
GlaxoSmithKline Lecture, Centre for Synthesis & Chemical Biology, Dublin, December 14, 2012
T. T. Tchen Memorial Lecture, Wayne State University, September 28, 2012
Paul Dowd Lecturer, University of Pittsburgh, May 2012
Jeremy Knowles Lecture, Directing Biosynthesis II: Durham, UK, September 17, 2010
Organic and Biomolecular Chemistry Award Lecture, IUPAC Congress, Glasgow, August 7, 2009
Tetrahedron Young Investigator Award Lecture, Berlin, June 28, 2007
CBIP Program Symposium Keynote Lecturer, Ohio State, May 8, 2007
Arthur C. Cope Scholar Award Lecture, ACS meeting, August 2006
Baker Symposium on Chemical Biology, Cornell University, April 30, 2005
Pfizer Award lecture, ACS Meeting, August 2004
Science@theInterface Conference, University of Chicago, June 3, 2004
Wageningen Symposium on Organic Chemistry, the Netherlands, April 2004

AFFILIATIONS

American Chemical Society
American Society for Biochemistry and Molecular Biology
American Peptide Society
American Society for Microbiology
Society for Industrial Microbiology and Biotechnology
The Protein Society
Society for the Advancement of Chicanos/Latinos and Native Americans in Science (SACNAS)
Royal Society of Chemistry
Organic Chemistry Division of the American Chemical Society
Biological Chemistry Division of the American Chemical Society
Inorganic Chemistry Division of the American Chemical Society

PROFESSIONAL ACTIVITIES

UIUC

P.I. and founding Director NIH Chemistry-Biology Interface Training Grant, 2004-2016
Faculty advisor and founder, UIUC SACNAS chapter, 2007-present
Member, Sloan Scholarship Board, University Center for Exemplary Mentoring (UCEM)
Director of Graduate Studies, Dept of Chemistry, 2012-2021
Carle-Illinois College of Medicine Research Advisory Board, July 2017-2020
Institute for Genomic Biology Advisory Committee, 2016-2018
Chair, Organizing Committee Olga G. Nalbandov Symposium “Outpacing Antimicrobial Resistance”, Sept. 24-25, 2018.
Theme leader MMG theme in the Institute of Genomic Biology, June 2023-present

Journal service

Reviewing Editor, *eLife*, 2012-2020

Editorial Board *Chemical Communications* 2009-2011

Editorial Advisory Board *J. Org. Chem.* 2006-2018

Editorial Advisory Board *ACS Chem. Biol.* 2009-present

Editorial Advisory Board *ChemBioChem* 2011-present

Editorial Advisory Board, *Chemical Communications* 2012-present

Editorial Advisory Board, *ACS Central Science* 2015-present

Editorial Advisory Board, *Cell Chemical Biology* 2016-present

Editorial Advisory Board, *Chemical Reviews* 2018-present

Editorial Advisory Board, *ACS Bio & Med Chem Au* 2021-present

Reviewer (2000-present) of manuscripts for *Science*, *Nature*, *Nature Chem. Biol.*, *Nat. Biotechnol.*, *Nat. Chem.*, *J. Am. Chem. Soc.*, *Angew. Chem.*, *Chem. Sci.*, *Proc. Nat. Acad. Sci. USA*, *eLife*, *Nat. Commun.*, *Biochemistry*, *Org. Lett.*, *ACS Chem. Biol.*, *ChemBioChem*, *Mol. Microbiol.*, *J. Org. Chem.*, *Inorg. Chem.*, *Chem. Rev.*, *Tetrahedron Lett.*, *J. Phys. Chem.*, *Bioorg. Med. Chem. Lett.*, *BMC Microbiol.*, *Appl. Environ. Microbiol.*, *J. Bacteriol.*, *Sci. Rep.*

Guest editor, special issue of *Chem. Comm.* on Enzymes and Proteins with Herbert Waldman

Guest editor, special issue of *Curr. Opin. Chem. Biol.* 2004 with Squire Booker

Guest editor, special issue of *Curr. Opin. Chem. Biol.* 2016 with Dan Tawfik

Guest editor, special issue of *Chem. Rev.* 2017 on unusual enzymes in natural product biosynthesis

Guest editor, special issue of *J. Org. Chem.* 2018 on natural product synthesis and biosynthesis with Mohammad Movassaghi and Kuniaki Tatsuta

Co-editor, "Cyclic Peptides: from Bioorganic Synthesis to Applications" Royal Society of Chemistry, Cambridge, UK, 2018 with James Naismith and Jesko Koehnke

Grant and fellowship review

Member, NIH SBCB Synthetic and Biological Chemistry B study section. 2008-2012

Member, Scientific Advisory Committee, Damon Runyon Cancer Foundation 2008-2012

Member, NIGMS Advisory Council, 2016-2018

Member, Searle Scholars Advisory Board, 2017-2020

Chair, Searle Scholars Advisory Board, 2020-2022

Selection Committee, Alfred P. Sloan Research Fellowships in Chemistry, 2021-2025

Moderator, Scialog program on Zoonotic Diseases, Research Corporation, 2021-2023

Ad hoc member NIH Physical Biochemistry study section

Ad hoc member NIH Bioorganic & Natural Products study section

Ad hoc member NIH SBIR Drug Discovery and Development study section

Ad hoc member NIH SBCB Synthetic and Biological Chemistry B study section

Ad hoc member NIH Pioneer mail review

Ad hoc member NIH R13 conference grants

Ad hoc member NIGMS Advisory Council, 2015-2016

Reviewer of grants for NIH, NSF, Research Corporation, Wellcome Fund, Dutch National Research Foundation (NWO), EPSRC (UK), Leverhulme Trust, NSERC, Science Foundation Ireland, JSPS, and Petroleum Research Fund

Conference organization, consulting, and scientific society service

Vice-chair, vitamin B₁₂ Gordon Research Conference, Oxford, England, Sept 18-23, 2005

Chair vitamin B₁₂ Gordon Research Conference, Biddeford, ME, July 1-6, 2007

Vice-chair, Bioorganic Chemistry Gordon Research Conference, Proctor Academy, June 10-15, 2007

Co-chair, Bioorganic Chemistry Gordon Research, Proctor Academy, June 15-20, 2008
Co-chair (with Jin Zhang UCSD), 2018 ASBMB national conference, San Diego, April 21-25, 2018
Chair, 27th Enzyme Mechanisms Conference, Tucson, AZ, January 2-6, 2022
Organizing committee, 1st International Conference on RiPPs, Granada, Spain, April 23-25, 2019
Member Executive Committee, Div. of Biological Chemistry, American Chemical Society, 2006-2009
Scientific Advisory Board, Divergence Inc., St. Louis, MO, 2004-2011
Scientific Advisory Board, Helmholtz Institute for Pharmaceutical Research Saarland, 2020-2024

PUBLICATIONS CHRONOLOGICAL

Independent Investigator (University of Illinois at Urbana-Champaign)

*corresponding author

Submitted

347. Eslami, S.M.; Padhi, C.; Rahman, I.R.; van der Donk, W.A.* “Expression of Lanthipeptides in Human Cells”
346. Nguyen, D.T.; Zhu, L.; Gray, D.L.; Woods, T.J.; Padhi, C.; Flatt, K.M.; Mitchell, D.A.*; van der Donk, W.A.* “Biaryl Macrocyclic Peptides with C-Terminal β -amino- α -keto Acid Groups Discovered by Genome Mining for Novel Metalloenzymes”
345. Ramos Figueroa, J.; Zhu, L.; van der Donk, W.A.* “Unexpected Transformations during Pyrroloiminoquinone Biosynthesis”
344. Yu, Y.; van der Donk, W.A.* “PEARL-Catalyzed Peptide Bond Formation after Chain Reversal during the Biosynthesis of Non-Ribosomal Peptides”
343. Vermeulen, R.*; Du Preez van Staden, A.; Ollewagen, T.; van Zyl, L.J.; Luo, Y.; van der Donk, W.A.; Dicks, L.M.T.; Smith, C.; Marla Trindade, M. “Characterization of Viridisins’ 2 Biological Properties”
342. Tung Le, T.; Biswas, S.; van der Donk, W.A.* “Use of a Head-to-Tail Peptide Cyclase to Prepare Hybrid RiPPs”

Accepted

341. Nguyen, D.; Mitchell, D.A.*; van der Donk, W.A.* “Genome Mining for New Enzyme Chemistry” *ACS Catal.*, **2024**, DOI 10.1021/acscatal.3c06322.

Published

340. Zhang, Z.J.*; Wu, C.; Moreira, R.; Dorantes, D.; Pappas, T.; Sundararajan, A.; Lin, H.; Pamer, E.G.*; van der Donk, W.A.* “Activity of Gut-Derived Nisin-like Lantibiotics against Human Gut Pathogens and Commensals” *ACS Chem. Biol.*, **2024**, *19*, 357-369. [PMCID: PMC10877564](#).
339. Luo, Y.; Xu, S.; Frerk, A.; van der Donk, W.A.* “Facile Method for Determining Lanthipeptide Stereochemistry” *Anal. Chem.* **2024**, *96*, 1767-1773. [PMCID: PMC10831782](#)
338. Eslami, S.M.; van der Donk, W.A.* “Proteases Involved in Leader Peptide Removal during RiPP Biosynthesis” *ACS Bio & Med Chem Au*, **2024**, *4*, 20-36. [PMCID: PMC10885120](#)
337. Wu, C.; Lower, A.; Lower, B.A.; Moreira, R.; Dorantes, D.; Le, T.; Giurgiu, C.; Shi, Y.; van Der Donk, W.A.* “Investigation into the Mechanism of Action of the Antimicrobial Peptide Epilancin 15X” *Front. Microbiol.* DOI: 10.3389/fmicb.2023.1247222. Published Online: November 2, 2023. <https://www.frontiersin.org/articles/10.3389/fmicb.2023.1247222/full> (accessed December 20, 2023). [PMCID: PMC10652874](#)

336. Zheng, Y.; Xu, X.; Fu, X.; Zhou, X.; Dou, C.; Yu, Y.; Yan, W.; Yang, J.; Xiao, M.; van der Donk, W.A.*; Zhu, X.*; Cheng, W.* “Structures of the Holoenzyme TgIHI Required for 3-Thiaglutarate Biosynthesis” *Structure*, **2023**, *31*, 1220-1232.e5. [PMCID: PMC10880893](#)
335. Wang, C.K.*; Huang, Y.-H.; Shabbir, F.; Pham, H.T.; Lawrence, N.; Benfield, A.H.; van der Donk, W.A.; Henriques, S.T.; Turner, M.S.; Craik, D.J.* “The Circular Bacteriocin Enterocin NKR-5-3B Has an Improved Stability Profile Over Nisin” *Peptides*, **2023**, *167*, 171049. [PMID: 37390898](#)
334. Ayikpoe, R.S.; Zhu, L.; Chen, J.Y.; Ting, C.P.; van der Donk, W.A.* “Macrocyclization and Backbone Rearrangement During RiPP Biosynthesis by a SAM-Dependent Domain-of-Unknown-Function 692” *ACS Cent. Sci.*, **2023**, *9*, 1008-1018. [PMCID: PMC10214503](#)
333. Mi, X.; Desormeaux, E.K.; Le, T.L.; van der Donk, W.A.*; Shukla, D.* “Sequence Controlled Secondary Structure Is Important for the Site-selectivity of Lanthipeptide Cyclization” *Chem. Sci.*, **2023**, *14*, 6904-6914. [PMCID: PMC10306099](#).
332. Bown, L.; Hirota, R.; Goettge, M.; Cui, J.; Krist, D.; Zhu, L.; Giurgiu, C.; van der Donk, W.A.; Ju, K.-S.; Metcalf, W.W.* “A Novel Pathway for Biosynthesis of the Herbicidal Phosphonate Natural Product Phosphonothrixin Is Widespread in Actinobacteria” *J. Bacteriol.*, **2023**, *205*, e00485-22.. [PMCID: PMC10210982](#)
331. Mazo, N.; Rahman, I.R.; Navo, C.D.; Peregrina, J.M.; Busto, J.H.; van der Donk, W.A.; Jiménez-Osés, G.* “Synthesis of Fluorescent Lanthipeptide Cytolysin S Analogs by Late-Stage Sulfamidate Ring-Opening” *Org. Lett.*, **2023**, *25*, 1431-1435. [PMCID: PMC10012263](#)
330. Lee, H.; Wu, C.; Desormeaux, E.K.; Sarksian, R.; van der Donk, W.A.* “Improved Production of Class I Lanthipeptides in *Escherichia coli*” *Chem. Sci.*, **2023**, *14*, 2537-2546. [PMCID: PMC9993889](#)
329. Ongpipattanakul, C.; Liu, S.; Luo, Y.; Nair, S.K.*; van der Donk, W.A.* “The Mechanism of thia-Michael Addition Catalyzed by LanC Enzymes” *Proc. Natl. Acad. Sci. USA*, **2023**, *120*, e2217523120. [PMCID: PMC9934072](#)
328. Sarksian, R.; Zhu, L.; van der Donk, W.A.* “*syn*-Elimination of Glutamylated Threonine in Lanthipeptide Biosynthesis” *Chem. Commun.*, **2023**, *59*, 1165-1168. [PMCID: PMC9890492](#)
327. Pei, Z.-F.; Zhu, L.; Sarksian, R.; van der Donk, W.A.*; Nair, S.K.* “Class V Lanthipeptide Cyclase Directs the Biosynthesis of a Stapled Peptide Natural Product” *J. Am. Chem. Soc.*, **2022**, *144*, 17549-17557. [PMCID: PMC9621591](#)
326. Ayikpoe, R.S.; Shi, C.; Battiste, A.J.; Eslami, S.M.; Ramesh, S.; Simon, M.A.; Bothwell, I.R.; Lee, H.; Rice, A.J.; Ren, H.; Tian, Q.; Harris, L.A.; Sarksian, R.; Zhu, L.; Frerk, A.M.; Precord, T.W.; van der Donk, W.A.*; Mitchell, D.A.*; Huimin Zhao, H.* “A Scalable Platform to Discover Antimicrobials of Ribosomal Origin” *Nat. Commun.*, **2022**, *13*, 6135. [PMCID: PMC9576775](#)
325. Ongpipattanakul, C.; Desormeaux, E.K.; DiCaprio, A.; van der Donk, W.A.*; Mitchell, D.A.*; Nair, S.K.* “Mechanism of Action of Ribosomally Synthesized and Post-Translationally Modified Peptides” *Chem. Rev.*, **2022**, *122*, 14722-14814. [PMCID: PMC9897510](#)
324. Liang, H.; Lopez, I.J.; Sánchez-Hidalgo, M.; Genilloud, O.; van der Donk, W.A.* “Mechanistic Studies on Dehydration in Class V Lanthipeptides” *ACS Chem. Biol.*, **2022**, *17*, 2519-2527. [PMCID: PMC9486802](#)
323. Sarksian, R.; van der Donk, W.A.* “Divergent Evolution of Lanthipeptide Stereochemistry” *ACS Chem. Biol.*, **2022**, *17*, 2551-2558. [PMCID: PMC9486935](#)
322. Daniels, P.N.; van der Donk, W.A.* “Substrate Specificity of the Flavoenzyme BhaC1 that Converts the Indole of Trp into a Hydroxyquinone” *Biochemistry*, **2023**, *62*, 378-387. [PMCID: PMC9850906](#)

321. Yu, Y.; van der Donk, W.A.* “Biosynthesis of 3-Thia- α -Amino Acids on a Carrier Peptide” *Proc. Natl. Acad. Sci.* **2022**, *29*, e2205285119. [PMCID: PMC9303977](#). Special series of Inaugural Articles by members of the National Academy of Sciences elected in 2021.
320. Nguyen, D.T.; Le, T.T.; Rice, A.J.; Hudson, G.A.; van der Donk, W.A.*; Mitchell, D.A.* “Accessing Diverse Pyridine-based Macrocyclic Peptides by a Two-Site Recognition Pathway” *J. Am. Chem. Soc.* **2022**, *144*, 11263-11269. [PMCID: PMC9247985](#)
319. Lee, H.; van der Donk, W.A.* “Macrocyclization and Backbone Modification in RiPP Biosynthesis” *Ann. Rev. Biochem.* **2022**, *91*, 269-294. [PMID: 35303785](#)
318. McLaughlin, M.I.; Yu, Y.; van der Donk, W.A.* “Substrate Recognition by the Peptidyl-(S)-2-Mercaptoglycine Synthase TglHI During 3-Thiaglutamate Biosynthesis” *ACS Chem. Biol.* **2022**, *17*, 930-940. [PMCID: PMC9016710](#)
317. Sarkisian, R.; Hegemann, J.D.; Simon, M.A.; Acedo, J.Z.; van der Donk, W.A.* “Unexpected Methyllanthionine Stereochemistry in the Morphogenetic Lanthipeptide SapT” *J. Am. Chem. Soc.* **2022**, *144*, 6373-6382. [PMCID: PMC9011353](#)
316. Lundahl, M.N.; Sarkisian, R.; Yang, H.; Jodts, R.J.; Pagnier, A.; Smith, D.F.; Mosquera, M.A.; van der Donk, W.A.; Hoffman, B.M.; Broderick, W.E.; Broderick, J.B. “Mechanism of Radical S-Adenosyl-l-methionine Adenylation: Radical Intermediates and the Catalytic Competence of the 5'-Deoxyadenosyl Radical” *J Am Chem Soc.* **2022**, *144*, 5087-5098. [PMCID: PMC9524473](#)
315. Daniels, P.N.; Lee, H.; Splain, R.A.; Ting, C.P.; Zhu, L.; Zhao, X.; Moore, B.S.; van der Donk, W.A.* “A Biosynthetic Pathway to Aromatic Amines that Uses Glycyl-tRNA as Nitrogen Donor” *Nature Chem.*, **2022**, *14*, 71-77. [PMCID: PMC8758506](#)
314. Fujinami, D.; Garcia de Gonzalo, C.; Biswas, S.; Hao, Y.; Wang, H.; Garg, N.; Lukk, T.; Nair, S.K.*; van der Donk, W.A.* “Structural and Mechanistic Investigations of Protein S-Glycosyltransferases” *Cell Chem. Biol.*, **2021**, *28*, 1740-1749. [PMCID: PMC8688163](#)
313. Le, T.; Fouque, K.J.D.; Santos-Fernandez, M.; Navo, C.D.; Jiménez-Osés, G.; Sarkisian, R.; Fernandez-Lima, F.*; van der Donk, W.* “Substrate Sequence Controls Regioselectivity of Lanthionine Formation by ProcM” *J. Am. Chem. Soc.*, **2021**, *143*, 18733-18743. [PMCID: PMC8942616](#)
312. Rahman, I.R.; Sanchez, A.; Tang, W.; van der Donk, W.A.* “Structure-Activity Relationships of Enterococcal Cytolysin” *ACS Infect. Dis.*, **2021**, *7*, 2445-2454. [PMCID: PMC8957224](#)
311. Biswas, S.; Wu, C.; van der Donk, W.A.* “The Antimicrobial Activity of the Glycoicin Sublancin Is Dependent on an Active Phosphoenolpyruvate-Sugar Phosphotransferase System” *ACS Infect. Dis.*, **2021**, *7*, 2402-2412. [PMCID: PMC8957223](#)
310. Fouque, K.J.D.; Hegemann, J.; Santos-Fernandez, M.; Le, T.; Gomez-Hernandez, M.; van der Donk, W.; Fernandez-Lima, F.* “Exploring Structural Signatures of the Lanthipeptide Prochlorosin 2.8 Using Tandem Mass Spectrometry and Trapped Ion Mobility-Mass Spectrometry” *Anal. Bioanal. Chem.*, **2021**, *413*, 4815-4824. [PMCID: PMC8992230](#)
309. Ayikpoe, R.S.; van der Donk, W.A.* Peptide Backbone Modifications in Lanthipeptides. In *Methods in Enzymology*; Petersson, E.J., Ed.; Academic Press: Cambridge, 2021; 573-621.
308. Bothwell, I.R.; Caetano, T.; Sarkisian, R.; Mendo, S.*; van der Donk, W.A.* “Structural Analysis of Class I Lanthipeptides from *Pedobacter lusitanus* NL19 Reveals Unusual Ring Topology” *ACS Chem. Biol.*, **2021**, *16*, 1019-1029. [PMCID: PMC9845027](#)
307. Simon, M.A.; Ongpipattanakul, C.; Nair, S.K.*; van der Donk, W.A.* “Biosynthesis of Fosfomycin in Pseudomonads Reveals a New Enzymatic Activity in the Metallohydrolase Superfamily” *Proc. Natl. Acad. Sci. USA*, **2021**, *118*, e2019863118. [PMCID: PMC8201877](#)
306. McLaughlin, M.I.; Pallitsch, K.; Wallner, G.; van der Donk, W.A.*; Hammerschmidt, F.* “Overall Retention of Methyl Stereochemistry During B₁₂-Dependent Radical SAM Methyl Transfer in Fosfomycin Biosynthesis” *Biochemistry*, **2021**, *60*, 1587-1596. [PMCID: PMC8158854](#)

305. Wu, C.; van der Donk, W.A.* “Engineering of New-to-Nature Ribosomally Synthesized and Post-Translationally Modified Peptide Natural Products” *Curr. Opin. Biotechnol.* **2021**, *69*, 221-231. [PMCID: PMC8238801](#)
304. Lai, K.-Y.; Galan, S.R.G.; Zeng, Y.; He, C.; Riedl, J.; Raj, R.; Chooi, K.P.; Garg, N.; Jones, L.H.; Hutchings, G.J.; Mohammed, S.; Nair, S.K.; Chen, J.*; Davis, B.G.*; van der Donk, W.A.* “LanCLs Add Glutathione to Dehydroamino Acids Generated at Phosphorylated Sites in the Proteome” *Cell* **2021**, *184*, 2680-2695. [PMCID: PMC8209957](#)
303. Danelius, E.; Halaby, S.; van der Donk, W.A.*; Gonen, T.* “MicroED in Natural Product and Small Molecule Research” *Nat. Prod. Rep.*, **2021**, *38*, 423-431. [PMCID: PMC7965795](#)
302. Le, T.; van der Donk, W.A.* “Mechanisms and Evolution of Diversity-Generating RiPP Biosynthesis” *Trends Chem.*, **2021**, *3*, 266-278.
301. Montalbán-López, M.; Scott, T.A.; Ramesh, S.; Rahman, I.R.; van Heel, A.; Viel, J.H.; Bandarian, V.; Elke Dittmann, E.; Genilloud, O.; Goto, Y.; Grande Burgos, M.J.; Hill, C.; Kim, S.; Koehnke, J.; Latham, J.A.; Link A.J.; Martínez, B.; Nair, S.K.; Nicolet, Y.; Rebuffat, S.; Sahl, H.-G.; Sareen, D.; Schmidt, E.W.; Schmitt, L.; Severinov, K.; S Süßmuth, R.D.; Truman, A.W.; Wang, H.; Weng, J.-K.; van Wezel, G.P.; Zhang, Q.; Zhong, J.; Piel, J.*; Mitchell, D.A.*; Kuipers, O.P.*; van der Donk, W.A.* “New Developments in RiPP Discovery, Enzymology and Engineering” *Nat. Prod. Rep.* **2021**, *38*, 130-239. [PMCID: PMC7864896](#)
300. Bobeica, S.C.; Zhu, L.; Acedo, J.Z.; Tang, W.; van der Donk, W.A.* “Structural Determinants of Macrocyclization in Substrate-Controlled Lanthipeptide Biosynthetic Pathways” *Chem. Sci.* **2020**, *11*, 12854-12870. [PMCID: PMC8163232](#)
299. Ren, H.; Shi, C.; Bothwell, I.R.; van der Donk, W.A.*; Zhao, H.* “Discovery and Characterization of a Class IV Lanthipeptide with a Non-Overlapping Ring Pattern” *ACS Chem. Biol.* **2020**, *15*, 1642-1649. [PMCID: PMC7814421](#)
298. An, L.; van der Donk, W.A.* Recent Progress in Lanthipeptide Biosynthesis, Discovery, and Engineering. In *Comprehensive Natural Products III: Chemistry and Biology*; Liu, H.-W., Begley, T.P., Eds.; Elsevier: Oxford, 2019; pp 119-165.
297. Rahman, I.R.; Acedo, J.Z.; Liu, X.R.; Zhu, L.; Arrington, J.; Gross, M.L.; van der Donk, W.A.* “Substrate Recognition by the Class II Lanthipeptide Synthetase HalM2” *ACS Chem. Biol.* **2020**, *15*, 1473-1486. [PMCID: PMC7305956](#)
296. Walker, M.*; Eslami, S.M.; Hetrick, K.J.; Ackenhusen, S.E.; Mitchell, D.A.; van der Donk, W.A. “Precursor Peptide-Targeted Mining of More Than One Hundred Thousand Genomes Expands the Lanthipeptide Natural Product Family” *BMC Genom.*, **2020**, *21*, 387. [PMCID: PMC7268733](#)
295. Caetano, T.*; van der Donk, W.A.; Mendo, S. “Bacteroidetes Are a Rich Source of Novel Lanthipeptides: The Case Study of *Pedobacter lusitanus*” *Microbiol. Res.* **2020**, *235*, 126441.
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Postdoctoral Research (Massachusetts Institute of Technology)

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Graduate Research (Rice University/Texas A&M University)

14. Porte, A.; van der Donk, W.A. Burgess, K. “New and Efficient Synthesis of an Amino Acid for Preparing Phosphine-Functionalized Peptidomimetics” *J. Org. Chem.* **1998**, *63*, 5262-5264.
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Undergraduate Research (Leiden University, the Netherlands)

2. Haanstra, W.G.; van der Donk, W.A.J.W.; Driessen, W.L.; Reedijk, J.; Wood, J.S.; Drew, M.G.B. "Unusual Behaviour of the Thioether Function of the Ligand 1,8-Bis(3,5-dimethyl-1-pyrazolyl)-3,6-dithiaoctane (bddo) towards Transition-Metal Salts. X-ray Structures of a Green and a Red Modification of [Cu(bddo)Cl₂]" *J. Chem. Soc. Dalton Trans.* **1990**, *10*, 3123-3128.
1. Haanstra, W.G.; van der Donk, W.A.J.W.; Driessen, W.L.; Reedijk, J.; Wood, J.S.; Drew, M.G.B. "Coordination Behaviour of the Ligand 1,9-Bis(3,5-dimethyl-1-pyrazolyl)-3,7-dithianonane (bddn) towards First Row Transition Metals. X-ray Structure of [Cu(bddn)(H₂O)](BF₄)₂" *Inorg. Chim. Acta* **1990**, *176*, 299-305.

PATENTS (PROVISIONAL AND ISSUED)

1. Metcalf, W.W.; van der Donk, W.A.; Vrtis, J.M.; White, A.K.; Garcia-Costas, A.M. NAD Phosphite Oxidoreductase, a Novel Catalyst from Bacteria for Regeneration of NAD(P)H. U.S. Pat. Appl. 2004/0091985 A1, May 13, 2004; WIPO Pat. Appl. WO/2003/072726 A2, September 4, 2003; WIPO Pat. Appl. WO/2003/072726 A3, October 21, 2004; European Pat. Appl. EP1487974 A2, December 22, 2004; European Pat. Appl. EP1487974 A4, November 16, 2005; Canadian Pat. Appl. CA 2,480,639 A1, September 4, 2003.
2. Zhao, H.; Woodyer, R.; Simurdiak, M.; van der Donk, W.A. Highly Active Xylose Reductase from *Neurospora crassa*. U.S. Patent 7,592,163 B2, Sept. 22, 2009; U.S. Patent 7,381,553 B3, June 3, 2008; WIPO Pat. Appl. WO/2006/002021 A2, January 5, 2006; WIPO Pat. Appl. WO/2006/002021 A3, February 16, 2006.
3. van der Donk, W.A.; Xie, L.; Chatterjee, C.; Paul, M. Compositions and Methods for Dehydration and Cyclization of Peptides, Synthetic Compounds, and Lantibiotics. U.S. Patent 7,785,825 B2, August 31, 2010.
4. Zhao, H.; Woodyer, R.D.; Metcalf, W.W.; van der Donk, W.A.; Johannes, T.W. Phosphite Dehydrogenase Mutants for Nicotinamide Cofactor Regeneration. U.S. Patent 7,402,419 B2, July 22, 2008; WIPO Pat. Appl. WO/2004/108912 A2, December 16, 2004; WIPO Pat. Appl. WO/2004/108912 A3, April 7, 2005; European Pat. Appl. EP1636353 A2, December 16, 2004; Canadian Pat. Appl. CA 2,529,063 A1, December 16, 2004.

5. Zhao, H.; Woodyer, R.D.; Metcalf, W.W.; van der Donk, W.A.; Johannes, T.W. Engineered Phosphite Dehydrogenase Mutants for Nicotinamide Cofactor Regeneration. WIPO Pat. Appl. WO2006/074194 A2, July 13, 2006; WIPO Pat. Appl. WO2006/074194 A3, October 19, 2006.
6. van der Donk, W.A.; Cooper, L.E.; McClerren, A. L. Two Component Bacillus Lantibiotic and Methods for Producing and Using the Same. U.S. Patent 7,985,837 B2, July 26, 2011.
7. Metcalf, W.W.; van der Donk, W.A.; Zhang, J.; Circello, B.T.; Borisova, S.A. Compositions and Methods for the Synthesis of APPA-Containing Peptides. U.S. Patent 8,372,601 B2, Feb. 12, 2013.
8. Lambris, J.D.; van der Donk, W.A. Modified Compstatin with Improved Stability and Binding Properties. U.S. Pat. Appl. US/2014/0113874 A1, April 24, 2014; WIPO Pat. Appl. WO/2012/040259 A2, March 29, 2012; WIPO Pat. Appl. WO/2012/040259 A3, March 29, 2012.
9. van der Donk, W.A.; Tang, W. Higher Performance Proteases for Scarless Tag Removal. U.S. Pat. Appl. US/2017/0240878 A1, August 24, 2017; WIPO Pat. Appl. WO/2015/175576 A2, November 19, 2015; WIPO Pat. Appl. WO/2015/175576 A3, March 17, 2016.
10. van der Donk, W.A.; Garg, N.; Goto, Y.; Tang, W. Class I and II Lantibiotics from *Geobacillus denitrificans*. U.S. Patent 9,326,523 B2, May 3, 2016; WIPO Pat. Appl. WO/2013/119821 A1, August 15, 2013.
11. Metcalf, W.W.; Ju, K.-S.; Gao, J.; Doroghazi, J.R.; van der Donk, W.A. Phosphonic Acid Compounds and Screening Method. U.S. Patent 9,993,490 B2, June 12, 2018; WIPO Pat. Appl. WO/2016/014539 A1, January 28, 2016.
12. van der Donk, W.A.; Ökesli, A.; Yang, X.; Hetrick, K.; Walker, M. Biosynthesis and Engineering of Lanthipeptides. U.S. Pat. Appl. US/2017/0204400 A1, July 20, 2017; WIPO Pat. Appl. WO/2016/049656 A1, March 31, 2016.
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PRESENTATIONS CHRONOLOGICAL

Scheduled Presentations 2023-

318. Society for Industrial Microbiology and Biotechnology (SIMB), 5th International Conference on Natural Product Discovery and Development, San Diego, CA, January 5-8, 2025.
317. Invited speaker, Vanderbilt Institute of Chemical Biology Seminar, Vanderbilt University, Nashville, TN, December 4, 2024.
316. Invited speaker, Chemistry Department, New York University, October 18, 2024.
315. 2nd International Conference on RiPPs, Seoul, South Korea, October 7-9, 2024.
314. Halocarbon Lecture, Cornell University, September 26, 2024.
313. Invited speaker, Department of Chemistry and Chemical Biology, Rutgers University, September 24, 2024.
312. 10th International Conference on Microbial Communication for Young Scientists (MiCom), Jena, Germany, September 2-4, 2024.
311. Biocatalysis Gordon Research Conference (GRC), Southern New Hampshire University, July 7-12, 2024.
“Genome Mining for New Macrocyclase Biocatalysts”
310. US-Japan Seminar on Natural Products Biosynthesis, Kitasaku-gun Nagano, Japan, May 20-24, 2024.

Presentations 2000-2023

309. 28th Enzyme Mechanisms Conference, Naples, FL, January 3-7, 2024.
“Genome Mining for New Enzymology”

308. Invited speaker, Biological Chemistry seminar series, University of North Carolina at Chapel Hill, November 15, 2023.
“Genome Mining for New Natural Products and New Chemistry”
307. 15th Australian Peptide Conference, Brisbane, Queensland, Australia, October 15-20, 2023.
“Biosynthesis and Engineering of Cyclic Peptide Natural Products”
306. Invited speaker, Chemistry Department, Temple University, Philadelphia, PA, September 28, 2023.
“Genome Mining for New Natural Products and New Chemistry”
305. 2023 Enzymes, Coenzymes and Metabolic Pathways Gordon Research Conference, Waterville Valley, NH, July 16, 2023.
“Genome Mining for New Enzymatic Activity”
304. 2023 American Peptide Symposium, Scottsdale, AZ, June 24-29, 2023.
“Biosynthesis and Engineering of Cyclic Peptide Natural Products”
303. Keynote Speaker, Texas Enzyme Mechanisms Conference, Austin, TX, June 3, 2023.
“Genome Mining for New Enzymology”
302. Invited speaker, American Chemical Society Student Chapter of the University of Illinois at Urbana-Champaign, Urbana, IL, April 11, 2023.
“Genome Mining for New Natural Products and New Chemistry”
301. ACS Chemical Biology Award Session and David Gin Award Symposium, Spring 2023 ACS, Indianapolis, IN, March 26 & 28, 2023.
“Genome Mining for New Macrocyclic Peptide Natural Products” (3/26/23)
“Biosynthesis of Macrocyclic Peptide Natural Products” (3/28/23)
300. Invited speaker, University of Texas Southwestern Medical Center, Dallas, TX, March 23, 2023.
“Links Between Bacterial Secondary Metabolism and Eukaryotic Protein Homeostasis”
299. Invited speaker, Graduate Student Chemical Biology Class, University of California, Berkeley, *virtual*, March 16, 2023.
“Biosynthesis of Bacterial Macrocyclic Peptides”
298. Richard B. Turner Memorial Lecture, Rice University, March 8, 2023.
“Genome Mining for New Chemistry”
297. HHMI Science Meeting, Ashburn, Virginia, February 15, 2023.
“Links Between Bacterial Secondary Metabolism and Eukaryotic Protein Homeostasis”
296. O’Keeffe Lecture in Molecular Sciences, Arizona State University, February 10, 2023.
“Biosynthesis and Engineering of Macrocyclic Peptide Natural Products”
295. Invited speaker, University of Tennessee, Knoxville, Department of Chemistry, January 26, 2023.
“Biosynthesis and Engineering of Macrocyclic Peptides”
294. 4th International Conference on Natural Product Discovery and Development in the Genomic Era, San Diego, CA, January 8-12, 2023.
“Genome Mining for New Macrocyclic Peptide Natural Products”
293. Fall 2022 Guy Lipscomb Lecture in Biochemistry at the Department of Chemistry and Biochemistry, University of South Carolina, November 4, 2022.
“Biosynthesis and Engineering of Macrocyclic Peptides”
292. Harrison Howe Award Symposium, ACS Northeast Regional Meeting, Rochester, NY, October 4, 2022. “Biosynthesis and Engineering of Macrocyclic Peptides”
291. Chemistry-Biology Interface (CBI) Training Program in Quantitative and Chemical Biology (QCB) Retreat Seminar, Indiana University, Bloomington, IN, August 11, 2022.
“Biosynthesis and Engineering of Macrocyclic Peptides”
290. 2022 Biocatalysis Gordon Research Conference (GRC), Southern New Hampshire University, NH, July 14, 2022. “Biosynthesis and Engineering of Macrocyclic Peptides”

289. Helmholtz-Institute for Pharmaceutical Research Saarland (HIPS) Symposium 2022, May 12, 2022. “Connections between Natural Product Biosynthesis and Mammalian Biology”
288. Irsee Natural Product Symposium, *virtual*, February 17, 2022.
“Biosynthesis of Peptide Natural Products”
287. Olivet Nazarene University, Dept of Chemistry, Kankakee, IL, *virtual*, January 18, 2022
“How to Find Our Future Antibiotics?”
286. Pacificchem 2021, Honolulu, Hawaii, *virtual*, December 16-21, 2021.
“Biosynthesis and Engineering of Peptide Natural Products”
285. Syngenta, Switzerland, *virtual*, December 15, 2021
“Biosynthesis and Engineering of Macrocyclic Peptides”
284. Graduate-Student Organization Invited Speaker, Fellows of Chemical Biology, University of Florida, *virtual*, December 3, 2021.
“Biosynthesis and Engineering of Macrocyclic Peptides”
283. Rice University, Department of Chemical and Biomolecular Engineering, November 16, 2021.
“Biosynthesis and Engineering of Macrocyclic Peptides”
282. Ionis Pharmaceuticals Lecture, University of California, Irvine, Departments of Pharmaceutical Sciences and Chemistry, *virtual*, November 4, 2021.
“Biosynthesis and Engineering of Macrocyclic Peptides”
281. EMBO | EMBL Symposium, Heidelberg, Germany, *virtual*, July 7, 2021.
“Discovery of New Natural Product Biosynthetic Pathways”
280. Carleton College, Northfield, MN, *virtual*, April 30, 2021.
“How to Find Our Future Antibiotics?”
279. Biochemistry/Chemical Biology Seminar Program, University of Indiana, *virtual*, April 23, 2021.
“Remarkable Chemistry During the Biosynthesis of Natural Products”
278. Calvin Lecture, University of California Berkeley, *virtual*, April 6, 2021.
“Unusual Transformations during Natural Product Biosynthesis”
277. Merck, NJ. March 14, 2021, *virtual*
“Posttranslational Modifications during Cyclic Peptide Biosynthesis”
276. Frontiers in Chemical Biology Virtual Symposia, California Institute of Technology, *virtual*, February 3, 2021.
“Unusual Transformations during Natural Product Biosynthesis”
275. RSC Organic Division (Scotland) Perkin Meeting, *virtual*, January 7, 2021.
“Remarkable Chemistry During the Biosynthesis of Natural Products”
274. 2020 International Symposium on Chemical Biology, January 22 - 24, 2020, Geneva, Switzerland.
“Natural Product Biosynthesis by Posttranslational Modification”
273. Schneller Frontiers lecture, Auburn University, November 14, 2019.
“Natural Product Biosynthesis by Posttranslational Modification”
272. 2019 Cold Spring Harbor Asia Conference on Chemical Biology, Suzhou, China, October 28- November 1, 2019. “Biosynthesis and Engineering of Macrocyclic Peptides”
271. Rowena Matthews Lecture, Department of Biological Chemistry, University of Michigan Medical School, September 24, 2019. “Natural Product Biosynthesis by Posttranslational Modification”
270. Genetics of Industrial Microorganisms Congress (GIM2019), Pisa, Italy, September 8-12, 2019.
“Posttranslational Modifications during Cyclic Peptide Biosynthesis”
269. New Frontiers in Natural Products Discovery, Corteva Agriscience, Indianapolis, IN, August 8, 2019. “Small Molecule Biosynthesis by Posttranslational Modification”
268. 1st International RiPP Conference, Granada, Spain, April 24-26, 2019.
“Biosynthesis and Engineering of Polycyclic Peptides”
267. 15th Annual Protein Engineering Summit (PEGS), Boston, MA, April 8-9, 2019.

- “Yeast Display of Post-Translationally Modified Polycyclic Peptides”
266. Invited speaker, American Society of Biochemistry and Molecular Biology (ASBMB) chapter at Eastern Illinois University, Charleston, IL, April 3, 2019.
“Why Do We Not Have New Antibiotics?”
265. Sanders Tri-Institutional Chemical Biology Seminar Series, Rockefeller and Memorial Sloan Kettering Cancer Center, March 22, 2019.
“Biosynthesis and Engineering of Cyclic Peptide Antibiotics”
264. Biology Colloquium Series, MIT, February 12, 2019.
“Biosynthesis, Engineering and Applications of Macrocyclic Peptides”
263. 26th Enzyme Mechanisms Conference, New Orleans, January 9, 2019.
“Posttranslational Modifications during Cyclic Peptide Biosynthesis”
262. David Hopwood lecture, John Innes Centre, Norwich, UK, November 27, 2018.
“Posttranslational Modifications during Cyclic Peptide Biosynthesis”
261. H.H. King lecture, Kansas State University, November 9, 2018.
“Biosynthesis and Engineering of Cyclic Peptide Antibiotics”
260. John Daly lecture, National Institutes of Health, October 26, 2018.
“Biosynthesis and Engineering of Cyclic Peptide Antibiotics”
259. Dept. of Clinical Microbiology, NIH, October 25, 2018.
“Discovery of New Antimicrobial Phosphonates Using Genomics”
258. EMBO Symposium “Enzymes, Biocatalysis and Chemical Biology: The New Frontiers” Pavia, Italy, September 9-12, 2018. “Biosynthesis and Engineering of Cyclic Peptide Antibiotics”
257. European Peptide Symposium, Dublin, Ireland. August 26-September 1, 2018.
“Posttranslational Modifications during Cyclic Peptide Biosynthesis”
256. Myron and Muriel Bender lectures, Northwestern University, August 6-7, 2018.
“Leader Peptide Guided Natural Product Biosynthesis”
“Phosphonate Biosynthesis: A Treasure Trove for Novel Enzymology”
255. Bioorganic Chemistry Gordon Conference, Andover, New Hampshire, June 10-15, 2018.
“Leader Peptide Guided Natural Product Biosynthesis”
254. 6th International Symposium on Antimicrobial Peptides (AMP2018), Poitiers, France, June 6, 2018. “Biosynthesis and Engineering of Cyclic Peptide Antibiotics”
253. Symposium honoring Judith Klinman, University of Pennsylvania, May 9, 2018.
“Leader Peptide Guided Natural Product Biosynthesis”
252. University of Minnesota, Department of Chemistry, February 22, 2018.
“Phosphonate Biosynthesis: A Treasure Trove for Novel Enzymology”
251. Natural Product Discovery and Development in the Genomic Era, Society for Industrial Microbiology and Biotechnology, Clearwater Florida, January 23, 2018.
“Biosynthesis and Engineering of Cyclic Peptide Antibiotics”
250. Mona Symposium on Natural Products & Medicinal Chemistry, University of the West Indies, Jamaica, January 8-11, 2018.
“Biosynthesis and Engineering of Cyclic Peptide Antibiotics”
249. MilliporeSigma/Karcher Lecture, University of Oklahoma, December 8, 2017.
“Biosynthesis and Engineering of Cyclic Peptide Antibiotics”
248. Princeton University, November 29, 2017.
“Biosynthesis and Engineering of Cyclic Peptide Antibiotics”
247. University of Tokyo, November 12-19, 2017.
“Personal Reflections on Moving from Inorganic Chemistry, to Organic Chemistry, to Biosynthesis”
“Biosynthesis and Engineering of Cyclic Peptide Antibiotics”

246. Backer lecture, University of Groningen, The Netherlands, October 30, 2017.
“Biosynthesis and Engineering of Cyclic Peptide Antibiotics”
245. University of Eindhoven, The Netherlands, October 27, 2017.
“Biosynthesis and Engineering of Cyclic Peptide Antibiotics”
244. Chemical Biology Lecture Series, Leiden University, the Netherlands. October 26, 2017.
“Biosynthesis and Engineering of Cyclic Peptide Antibiotics”
243. Alfred Hoffmann award lecture, University of Zürich, Switzerland, October 24, 2017.
“Biosynthesis and Engineering of Cyclic Peptide Antibiotics”
242. Department of Chemistry, ETH, Zürich, Switzerland, October 23, 2017.
“Phosphonate Biosynthesis: A Treasure Trove for Novel Enzymology”
241. 2017 Boulder Peptide Symposium, Boulder, CO, September 25-29, 2017.
“Combinatorial Methods Towards Genetically Encoded Cyclic Peptides”
240. Alfred Benzon Symposium, Copenhagen University, Copenhagen, Denmark, August 21-24, 2017.
“Biosynthesis and Engineering of Cyclic Peptide Antibiotics”
239. Repligen Award lecture, ACS National meeting, Washington DC, August 20, 2017.
“Two Radical Proteins: Hydroxyethylphosphonate Dioxygenase and Methylphosphonate Synthase”
238. 2017 Society for Industrial Microbiology and Biotechnology Annual Meeting, Denver, CO, July 30-August 3, 2017.
“Biosynthesis and Engineering of Cyclic Peptide Antibiotics”
237. 2017 Gordon Research Conference (GRC) on Enzyme and Metabolic Pathways, Waterville Valley, NH, July 16-21, 2017.
“How Can One Enzyme Act on 30 Different Substrates?”
236. 2017 Gordon Research Seminar (GRS) on Enzymes, Coenzymes and Metabolic Pathways, Waterville Valley, NH, July 16, 2017.
“Phosphonate Biosynthesis: A Treasure Trove for Novel Enzymology”
235. 2017 American Peptide Symposium, Whistler, British Columbia, June 16-21, 2017.
“Combinatorial Lanthipeptide Biosynthesis”
234. 9th US-Japan Seminar on the Biosynthesis of Natural Products, Lake Arrowhead, CA, May 30-June 4, 2017. “Biosynthesis of Cyclic Peptide Antibiotics”
233. Novartis Chemical Sciences Lectureship, University of Wisconsin-Madison, May 4, 2017.
“Biosynthesis and Engineering of Cyclic Peptide Antibiotics”
232. Directing Biosynthesis V, Coventry, UK, March 22-24, 2017.
“Directing RiPP Biosynthesis”
231. Washington University, St. Louis, MO, February 23, 2017.
“Biosynthesis of Cyclic Peptide Antibiotics”
230. Grinnell College, February 10, 2017.
“The Looming Antibiotics Crisis: What Can We Do About It?”
229. Johns Hopkins University, Department of Chemistry, January 25, 2017.
“Biosynthesis of Cyclic Peptide Antibiotics”
228. Northwestern University, January 6, 2017.
“Biosynthesis of Cyclic Peptide Antibiotics”
227. Student Sponsored Nozaki Memorial Lecture Series, Dept. of Biochemistry, Duke University, December 2, 2016. “Biosynthesis and Engineering of Cyclic Peptide Antibiotics”
226. Colloquium Series, University of Toronto, November 11, 2016.
“Biosynthesis of Cyclic Peptide Antibiotics”
225. Medicinal Chemistry and Pharmacognosy Seminar Series, University of Illinois at Chicago, November 4, 2016. “Biosynthesis of Cyclic Peptide Antibiotics”

224. Pfizer Award Symposium, ACS National Meeting, Philadelphia, August 21-25, 2016.
“RiPP Biosynthesis: D-Amino Acids in Ribosomally Produced Peptides”
223. Monsanto, St Louis, March 21, 2016.
“Production of Cyclic Peptide Libraries in Heterologous Hosts”
222. 4th Frontier Chemistry Center International Symposium, Hokkaido University, Sapporo, Japan, February 23-24, 2016.
“Phosphonate Biosynthesis: A Treasure Trove for Novel Chemistry”
“Biosynthesis of Cyclic Peptide Antibiotics”
221. Metals in Biology, GRC, January 24-28, 2016.
“A Tale of Two Proteins: Hydroxyethylphosphonate Dioxygenase and Methylphosphonate Synthase”
220. Synthetic Biology Symposium, Salk Institute, La Jolla, January 20-22, 2016.
“Production of Cyclic Peptide Libraries in Heterologous Hosts”
219. University of Alberta, Edmonton, Canada, January 11, 2016.
“Biosynthesis of Cyclic Peptide Antibiotics”
218. Pacifichem, Symposium: “Biosynthesis of Natural Products,” December 15-19, 2015.
“How Does One Enzyme Make and Break 32 Chemical Bonds?”
217. Pacifichem, Symposium: “Enzymes Essential to Biosphere Health: Bioremediation and Biogeochemical Cycling,” December 15-19, 2015.
“Formation and Breakdown of Compounds With Phosphorus-Carbon Bonds”
216. Plenary Lecture, International Conference on Circular Proteins, November 1-4, 2015. Brisbane, Australia. “Biosynthesis of Lanthionine-Containing Peptides”
215. UC Berkeley/UCSF, SQB/Andrew Braisted Lecture, Oct 4, 2015
“Unexpected Posttranslational Modifications during Cyclic Peptide Biosynthesis”
214. Undergraduate Biochemistry Seminar, Marquette University, October 12, 2015.
“Why Do We Not Have New Antibiotics, and What Can We Do About It?”
213. Boston College, Dept of Chemistry, Novartis lecture, Sept 8, 2015.
“Biosynthesis of Cyclic Peptide Antibiotics”
212. Eli Lilly, Indianapolis, August 25, 2015.
211. Keynote lecture, Vanderbilt Institute for Chemical Biology Student Research Symposium, August 13, 2015. “Evolution of Peptide Dehydratases Involved in Natural Product Biosynthesis”
210. American Society of Pharmacognosy, Copper Mountain, CO, July 25-29, 2015.
“Biosynthesis of Cyclic Peptide Antibiotics”
209. 16th International Conference on Advancing the Chemical Sciences (ISACS 16), June 15-18, Zürich, Switzerland. “Biosynthesis of Cyclic Peptide Antibiotics”
208. Durham University, UK, June 1, 2015.
“Biosynthesis of Cyclic Peptide Antibiotics”
207. University of Warwick, UK, May 27, 2015.
“Biosynthesis of Cyclic Peptide Antibiotics”
206. Oxford University, Department of Chemistry, May 28, 2015.
“Biosynthesis of Cyclic Peptide Antibiotics”
205. The Royal Society of Chemistry, London, May 26, 2015.
“Biosynthesis of Cyclic Peptide Antibiotics”
204. Frontier's in Chemical Research Lectures, Texas A&M, April 6-8, 2015.
“Phosphonate Biosynthesis: A Treasure Trove for Novel Chemistry”
“Genome Mining for Novel Natural Products”
“Biosynthesis of Cyclic Peptide Antibiotics”

203. American Society for Biochemistry and Molecular Biology annual meeting, March 28-April 1, 2015, Boston, MA.
202. Yale University, Department of Chemistry, March 3, 2015.
“Posttranslational Modifications in Natural Product Biosynthesis”
201. Harvard University, Department of Chemistry, March 2, 2015.
“Biosynthesis of Cyclic Peptide Antibiotics”
200. DuPont Central Station, Wilmington, Delaware, February 13, 2015.
“Biosynthesis and Engineering of Cyclic Peptide Natural Products”
199. University of Texas Southwestern Medical School, January 29, 2015.
“Genome-Assisted Investigations of Natural Product Biosynthesis”
198. Natural Product Discovery and Development in the Post-Genomic Era Conference, Society for Industrial Microbiology, San Diego, January 11-15, 2015.
“Posttranslational Modifications in Natural Product Biosynthesis”
197. University of Utah, Department of Chemistry, December 11, 2014.
“Biosynthesis of Cyclic Peptide Antibiotics”
196. TSRI, Scripps Florida, November 6, 2014.
“Biosynthesis of Cyclic Peptide Antibiotics”
195. University of Alberta, Department of Chemistry, September 29, 2014.
“Biosynthesis of Cyclic Peptide Antibiotics” CANCELLED
194. 22nd IUPAC International Conference on Physical Organic Chemistry, Ottawa, Canada, August 10-15, 2014. “Use of tRNA in Natural Product Biosynthesis”
193. 2014 annual meeting Society for Industrial Microbiology and Biotechnology, St Louis, July 20-24
“Use of tRNA in Natural Product Biosynthesis”
192. Gordon Conference on Stereochemistry, Newport, RI, July 27-August 1, 2014.
“Understanding Phosphonate Biosynthesis Through Investigations of Stereochemistry”
191. Institute of Organic Chemistry and Biochemistry, Prague, Czech Republic, June 4, 2014.
“Biosynthesis of Cyclic Peptide Antibiotics”
190. 36th Steenbock Symposium- Enzyme Structure and Function, University of Wisconsin-Madison, May 22-24, 2014. “Applying Mo Cleland’s Ideas to Phosphite Dehydrogenase”
189. 2014 HHMI Science Meeting, Janelia Farms Research Center, May 6-8, 2014.
“Non-Translational Functions of Aminoacyl tRNA in Natural Product Biosynthesis”
188. Institute for Cellular and Molecular Biology Seminar, University of Texas-Austin, April 24, 2014.
“Posttranslational Modifications in Natural Product Biosynthesis”
187. Harvard University, Chemical Biology Retreat, April 18-19, 2014.
“Combinatorial Biosynthesis of Cyclic Peptides”
186. Advances in Macrocyclic Peptide Synthesis and Applications Symposium, ACS National Meeting, March 19, 2014. “Preparation of Cyclic Peptides by Posttranslational Modifications”
185. Marine Natural Products GRC, Ventura, CA, March 2-7, 2014.
“Lanthipeptide Biosynthesis in Marine Cyanobacteria”
184. JoAnne Stubbe Symposium, University of Pennsylvania, February 18, 2014.
“Posttranslational Modifications in Natural Product Biosynthesis”
183. University of North Carolina-Chapel Hill, February 12, 2014.
“Biosynthesis of Cyclic Peptide Antibiotics”
182. North Carolina State University, February 11, 2014.
“Posttranslational Modifications in Natural Product Biosynthesis”
181. Keynote Lecture, NIH Chemical Biology Training Grant Symposium, University of Kansas, January 24, 2014. “Posttranslational Modifications in Natural Product Biosynthesis”
180. Amgen, Westlake Village, CA, November 20, 2013.

- “Cyclic Peptide Biosynthesis by Posttranslational Modifications”
179. Genentech Lecture 2013, Scripps Research Institute, La Jolla, CA, November 18, 2013.
“Genome-Assisted Investigations of Natural Product Biosynthesis”
178. 23rd Solvay Conference on Chemistry, Brussels, Belgium, October 16-19, 2013.
“Natural Product Biosynthesis in the Genomic Age”
177. 2013 SIMB (Society for Industrial Microbiology and Biotechnology) Annual Meeting, San Diego, August 11-15, 2013.
“RiPPs: Ribosomally Synthesized and Posttranslationally Modified Peptide Natural Products”
176. 27th Annual Symposium of the Protein Society, Boston, July 22, 2013.
“RiPPs: Ribosomally Synthesized and Posttranslationally Modified Peptide Natural Products”
175. American Peptide Society Symposium, Kona, Hawaii, June 23, 2013.
“RiPPs: Ribosomally Synthesized and Posttranslationally Modified Peptide Natural Products”
174. Laptop (Lantibiotic production: technology, optimization and improved process) Workshop, Verona, Italy, June 16-17, 2013.
“In Vitro Studies of Lantibiotic Biosynthetic Enzymes”
173. Novartis, San Francisco, May 8, 2013.
“Genome-Assisted Investigations of Natural Product Biosynthesis”
172. David Gin Memorial Symposium, Memorial Sloan Kettering Cancer Center, April 30, 2013.
“Genome-Assisted Investigations of Natural Product Biosynthesis”
171. MIT, Department of Chemistry, April 29, 2013.
“Phosphonate Biosynthesis: A Treasure Trove for Novel Chemistry”
170. ACS Chem. Biol. Lecture, ACS National Meeting, New Orleans, April 9, 2013.
“Stereochemistry and Mode of Action of Lantibiotics”
169. Society for General Microbiology, Manchester, UK, March 25-28, 2013.
“Posttranslational Modifications in Natural Product Biosynthesis”
168. UIUC, Department of Bioengineering, February 28, 2013.
“RiPPs: A Treasure Trove for Bioengineering”
167. Kharasch lectures, University of Chicago, January 25-30, 2013.
Lecture 1 “Phosphonate Biosynthesis: A Treasure Trove for Novel Chemistry”
Lecture 2 “Posttranslational Modifications in Natural Product Biosynthesis”
Lecture 3 “Genome Mining for New Natural Products”
166. 23rd Enzyme Mechanisms Conference, Coronado, CA. January 7, 2013.
“Evolution of Lanthipeptide Synthetases”
165. Annual Symposium on Recent Advances in Synthesis and Chemical Biology XI, Centre for Synthesis and Chemical Biology, Dublin, Ireland. December 14, 2012.
“Posttranslational Modifications in Natural Product Biosynthesis”
164. T.T. Tchen Memorial Lecture, Wayne State University, September 28, 2012.
“Posttranslational Modifications in Natural Product Biosynthesis”
163. University of Nebraska, Dept of Chemistry, August 24, 2012.
“Posttranslational Modifications in Natural Product Biosynthesis”
162. Colorado State University, Dept of Chemistry, August 23, 2012.
“Posttranslational Modifications in Natural Product Biosynthesis”
161. Natural Products GRC, July 22-26, 2012.
“Combining Synthetic and Biosynthetic Chemistry to Prepare Natural Product Analogs”
160. Dowd lecturer, University of Pittsburgh, May 2012.
Lecture 1: “Posttranslational Modifications in Natural Product Biosynthesis”
Lecture 2: “Phosphonate Natural Products: Discovery and Biosynthesis”
159. Purdue University, Dept. of Biochemistry, April 3, 2012.

- “Posttranslational modifications in Natural Product Biosynthesis”
158. ACS National Meeting, San Diego 2012.
“Chemical and Enzymatic Synthesis of S-linked Glycopeptides”
157. ACS National Meeting, San Diego 2012.
“Discovery and Biosynthesis of Phosphonate Natural Products”
156. Texas A&M University, Dept. of Chemistry, February 29, 2012.
“Posttranslational Modifications in Natural Product Biosynthesis”
155. HHMI meeting on Microbes and Immunology, February 14-17, 2012.
“Posttranslational Modifications in Secondary Metabolism”
154. 16th International Symposium on the Biology of Actinomycetes (ISBA16), Puerto Vallarta, Mexico, December 11-15, 2011.
“Biosynthesis of Lantipeptides in Actinomycetes”
153. Center for Integrated Protein Science Fest, Munich, September 14-17, 2011.
“Posttranslational Modifications in Natural Product Biosynthesis”
152. International Conference on the Chemistry of Antibiotics (ICCA-12), Berlin, September 9-13, 2011. “Posttranslational Modifications in Natural Product Biosynthesis”
151. Chemistry Symposium, Boston University, June 24, 2011.
“Posttranslational Modifications in Natural Product Biosynthesis”
150. UC Berkeley, May 2, 2011.
“Posttranslational Modifications in Natural Product Biosynthesis”
149. Princeton, April 20, 2011.
“Posttranslational Modifications in Natural Product Biosynthesis: lantibiotics and S-linked glycopeptides”
148. University of East Anglia, Norwich, UK, March 9, 2011.
“Phosphonate Natural Products: Discovery and Biosynthesis”
147. University of Bristol, UK, March 7, 2011
“Phosphonate Natural Products: Discovery and Biosynthesis”
146. Case Western Reserve University, February 24, 2011.
“Posttranslational Modifications in Natural Product Biosynthesis”
145. Rockefeller University, January 12, 2011.
“Posttranslational Modifications in Natural Product Biosynthesis”

Presentations 2000-2010

144. Pacificchem 2010, Honolulu, December 15-20.
“Posttranslational Modifications in Natural Product Biosynthesis”
143. University of Wisconsin, Department of Chemistry, December 7, 2010.
“Posttranslational Modifications in Natural Product Biosynthesis”
142. Utrecht University, October 12, 2010.
“Posttranslational Modifications in Natural Product Biosynthesis”
141. Universitaet des Saarlandes, October 7, 2010.
“Posttranslational Modifications in Natural Product Biosynthesis”
140. International Symposium of the DFG Research, Post-Genomic Strategies for New Antibiotic Drugs and Targets Königswinter (Germany), October 4-6, 2010.
“Leader Peptide Directed Biosynthesis: Lantibiotics Engineering”
139. Directing Biosynthesis II: Discovery; Evolution; Function conference Durham, UK
September 13-17, 2010.
“Leader Peptide Directed Biosynthesis: Lantibiotics Engineering”

138. 240th National ACS meeting, August 23, 2010, Boston.
“Posttranslational Modifications in Natural Product Biosynthesis”
137. 240th National ACS meeting, August 24, 2010, Boston. Symposium in honor of Perry Frey receiving Gordon Hammes award.
“Unusual Enzymatic Transformations during Phosphonate Biosynthesis”
136. NAICONs/Ktedogen, Milano, Italy, June 17, 2010.
“Posttranslational Modifications in Natural Product Biosynthesis”
135. Trends in Enzymology Conference, Locarno, Switzerland, June 13-17, 2010.
“Leader Peptide Directed Biosynthesis: Lantibiotics Engineering “
134. Bürgenstock Conference, Brunnen, Switzerland, May 2-7, 2010.
“Genome-Assisted Investigations of Natural Product Biosynthesis”
133. University of Texas Southwestern Medical Center, Dept. of Biochemistry, May 20, 2010.
“Posttranslational Modifications in Natural Product Biosynthesis”
132. Georgia Tech, Department of Chemistry, April 29, 2010.
“Posttranslational Modifications in Natural Product Biosynthesis”
131. Howard Hughes Medical Institute, Chevy Chase, MD, April 18-21, 2010.
Conference on Infection, Inflammation and Immunity
“New Methods for the Discovery of Anti-infectives”
130. 239th National ACS meeting, March 2010, San Francisco.
“New Methods for the Discovery and Synthesis of Natural Products”
129. UCLA, Department of Chemistry, February 26, 2010.
“Posttranslational Modifications in Natural Product Biosynthesis”
128. Caltech, Department of Chemistry, February 24, 2010.
“Posttranslational Modifications in Natural Product Biosynthesis”
127. Shanghai Institute of Organic Chemistry, December 23, 2009.
“New Methods for the Discovery and Synthesis of Natural Products”
126. Albert Einstein College of Medicine, December 8, 2009.
“Posttranslational Modifications in Natural Product Biosynthesis”
125. The Pennsylvania State University, Department of Chemistry, November 12, 2009.
“New Methods for the Discovery and Synthesis of Antibiotics”
124. Leiden University, the Netherlands, Department of Chemistry, October 30, 2009.
“Unusual Reactions Catalyzed by Non-Heme Iron Proteins”
123. Albion College, Department of Chemistry, October 29, 2009.
“New Methods for the Discovery and Synthesis of Natural Products “
122. Michigan State University, Department of Chemistry, East Lansing, MI, October 28, 2009.
“New Methods for the Discovery and Synthesis of Natural Products “
121. Howard Hughes Medical Institute, Chevy Chase, MD. April 18-21, 2010.
Conference on Proteins: Structure, Function, Evolution
“Lords of the Rings: Lantibiotic Synthetases”
120. Cornell University, Department of Chemistry and Chemical Biology, September 14, 2009.
“New Methods for the Discovery and Synthesis of Antibiotics”
119. Chemical Biology Symposium, State University of New York, Buffalo, September 11, 2009.
“New Methods for the Discovery and Synthesis of Natural Products”
118. OBC lecture. Royal Society of Chemistry/IUPAC Congress, Glasgow, Scotland, August 3-7, 2009.
“Biosynthesis of Lantibiotics, Polycyclic Thioether Antibiotics”
117. Enzymes, Coenzymes and Metabolic Pathways GRC, Waterville Valley, NH, July 5-10, 2009.
“Unusual Transformations during the Biosynthesis of Phosphonate Natural Products”

116. Conference on Pathways, Networks, and Systems, Corfu, Greece, June 6-9, 2009.
“Mining Microbial Genomes for Novel Antibiotics”
115. Memorial Sloan Kettering Cancer Center, May 12, 2009.
“New Methods for the Discovery and Synthesis of Natural Products”
114. Queen’s University, Dept. of Chemistry, Kingston, Ontario Canada, May 1, 2009.
“Biosynthesis of Lantibiotics, Polycyclic Thioether Antibiotics”
113. NIH Summit on Natural Products and Biomedical Science, April 28-29, 2009
“Genome Mining for Novel Lantibiotics”
112. University of South Florida, Dept. of Chemistry, Tampa, April 2, 2009.
“Biosynthesis of Lantibiotics, Polycyclic Thioether Antibiotics”
111. University of Maryland, Dept. of Chemistry, March 10, 2009.
“Biosynthesis of Lantibiotics, Polycyclic Thioether Antibiotics”
110. Wesleyan University, Dept. of Chemistry, Middletown, CT, February 27, 2009.
“Biosynthesis of Lantibiotics, Polycyclic Thioether Antibiotics”
109. Tufts University, Dept. of Chemistry, Medford, MA, January 27, 2009.
“Biosynthesis of Lantibiotics, Polycyclic Thioether Antibiotics”
108. University of Rochester, Department of Chemistry, Rochester, NY, December 5, 2008.
“Biosynthesis of Lantibiotics, Polycyclic Thioether Antibiotics”
107. University of Kentucky, Department of Pharmaceutical Sciences, College of Pharmacy,
Lexington, KY, November 21, 2008.
“Biosynthesis of Lantibiotics, Complex Macrocyclic Thioethers”
106. ETH, Dept of Chemistry, October 13, 2008.
“Biosynthesis of Lantibiotics, Polycyclic Thioether Antibiotics”
105. Tour “3ème Cycle” of Swiss Universities: Universities of Geneva, Lausanne, Berne, Basel,
Fribourg and Neuchâtel, Switzerland, October 6-13, 2008.
“Biosynthesis of Lantibiotics, Polycyclic Thioether Antibiotics” and “Discovery, Structure, and
Biosynthesis of Phosphonate Natural Products”
104. University of Georgia, Department of Chemistry, September 11, 2008.
“Biosynthesis of Lantibiotics, Complex Macrocyclic Thioethers”
103. MIT, Dept of Chemistry, July 12, 2008. Symposium in honor of JoAnne Stubbe.
“Biosynthesis of Lantibiotics, Complex Macrocyclic Thioethers”
102. 7th US-Japan Seminar on Biosynthesis of Natural Products, San Diego, June 22- June 26, 2008
“Biosynthesis of Lantibiotics, Complex Macrocyclic Thioethers”
101. Novartis Lecture, University of Michigan, Department of Chemistry, May 19, 2008.
“Biosynthesis of Lantibiotics, Polycyclic Thioether Antibiotics”
100. Massachusetts General Hospital Department of Molecular Biology/Harvard Medical School
Department of Genetics, May 7, 2008.
“Biosynthesis of Lantibiotics, Polycyclic Thioether Antibiotics”
99. Johns Hopkins University School of Medicine, Department of Pharmacology, Baltimore, MD,
April 23, 2008.
“Biosynthesis of Lantibiotics, Complex Macrocyclic Thioethers”
98. Illinois Wesleyan University, Department of Chemistry, April 4, 2008.
“Lacticin 481 Synthetase, the Lord of the Rings”
97. Plenary Lecture, Annual meeting of the German Society for General and Applied Microbiology
and the German Society for Biochemistry and Molecular Biology, Frankfurt, Germany, March 9-
12, 2008.
“Biosynthesis of Lantibiotics, Complex Macrocyclic Thioethers”

96. University of Minnesota – Twin Cities, Department of Biochemistry, Molecular Biology & Biophysics, Minneapolis, MN, February 6, 2008.
“Biosynthesis of Lantibiotics, Complex Macrocyclic Thioethers”
95. University of British Columbia, Department of Chemistry and Simon Fraser University, Departments of Chemistry, Vancouver, BC, Canada, January 8 and 9, 2008.
“Biosynthesis of Lantibiotics, Complex Macrocyclic Thioethers”
94. John Innes Centre, Norwich Bioscience Institutes, Norwich, UK, October 5, 2007.
“Biosynthesis of Lantibiotics, Complex Macrocyclic Thioethers”
93. Columbia University, Department of Biological Sciences, September 24, 2007.
“Posttranslational Modifications in Lantibiotic Biosynthesis”
92. American Chemical Society, 234th National Meeting, Boston, MA, August 19-23, 2007
“Biosynthesis of Lantibiotics, Complex Macrocyclic Thioethers”
91. Society for Industrial Microbiology, Annual Meeting, Denver, CO, July 29-August 2, 2007
“Biosynthesis of the Lantibiotics Haloduracin and Nisin”
90. Tetrahedron 50th Anniversary Symposium, June 27-29, 2007, Berlin, Germany.
“Biosynthesis of Lantibiotics, Complex Macrocyclic Thioethers”
89. The Ohio State University, CBIP Program Symposium, May 8, 2007.
“Biosynthesis of Lantibiotics, Complex Macrocyclic Thioethers”
88. Yale University, Dept. of Chemistry, April 18, 2007.
“Biosynthesis of Lantibiotics, Complex Macrocyclic Thioethers”
87. American Chemical Society National Meeting, Chicago, IL, March 26, 2007.
2007 Nakanishi Prize Symposium invited lecture:
“Posttranslationally Modified Antimicrobial Peptides”
86. University of California, San Francisco, Dept. of Pharmaceutical Chemistry, March 15, 2007.
“Chemistry and Biology of Lanthionine Biosynthesis”
85. Massachusetts Institute of Technology, Department of Chemistry, February 13, 2007.
“Chemistry and Biology of Lanthionine Biosynthesis”
84. University of California – Berkeley, Dept. of Chemistry, February 5, 2007.
“Chemistry and Biology of Lanthionine Biosynthesis”
83. 20th Enzyme Mechanisms Conference, St. Pete Beach, Florida, January 3-6, 2007.
“Chemistry and Biology of Lanthionine Biosynthesis”
82. Syracuse University, Department of Chemistry, November 14, 2006.
“Chemistry and Biology of Lanthionine Biosynthesis”
81. University of Missouri – Columbia, Department of Chemistry, November 10, 2006.
“Chemistry and Biology of Lanthionine Biosynthesis”
80. Ohio University (Athens, OH), Dept. of Chemistry, September 25, 2005.
“Chemistry and Biology of Lanthionine Biosynthesis”
79. International Symposium on Medicinal Chemistry (ISMC), Istanbul, Turkey August 29-September 2, 2006.
“Re-Engineering of Lantibiotics”
78. Arthur C. Cope Scholar Award address. ACS meeting, San Francisco, August 27-31, 2006.
77. Gordon Research Conference on Bioorganic Chemistry, Oxford, England, July 30-August 4.
“Mechanism and Application of Lantibiotic Synthetases”
76. Gordon Research Conference on Biocatalysis, Rhode Island, July 9-14, 2006.
“Using Lantibioticsynthetases for Protein Engineering”
76. Utrecht University, Department of Medicinal Chemistry, April 4, 2006
“Synthesis of Peptide Conjugates”

75. Stanford University, Department of Chemistry, February 8, 2006.
“Chemistry and Biology of Lanthionine Synthesis”
74. Arizona State University, Department of Chemistry, February 6, 2006.
“Posttranslational Modifications During Lantibiotic Biosynthesis”
73. GRC, Program-Protein Derived Cofactors Radicals and Quinones, Ventura, CA January 22-27, 2006.
“Posttranslational Modifications During Lantibiotic Biosynthesis”
72. Pacifichem, Honolulu, Hawaii, December 15-20, 2005.
“Mechanistic Aspects of Chlorinated Ethylene Degradation by Vitamin B₁₂”
71. Pacifichem, Honolulu, Hawaii, December 15-20, 2005.
“The Structure of Radical Intermediates in Lipoxygenase and Cyclooxygenase”
70. ACS National Meeting, Washington, D.C., August 28-September 1, 2005. Symposium: Strategies and Molecular Mechanisms of Contaminant Degradation Chemistry.
69. GRC, Enzymes, Coenzymes, and Metabolic Pathways, Meriden, NH, July 17-22, 2005.
“Posttranslational Modifications During Lantibiotic Biosynthesis”
68. 19th American Peptide Symposium, San Diego, June 18-26, 2005.
“Posttranslational Modifications During Lantibiotic Biosynthesis”
66. Baker Symposium on Chemical Biology, Dept. of Chemistry and Chemical Biology, Cornell University, April 30, 2005.
“Posttranslational Modifications During Lantibiotic Biosynthesis”
65. ASBMB Meeting, San Diego, April 3-7, 2005.
“Mechanistic Studies on Cyclooxygenase and Lipoxygenase”
64. Leveraging Natural Products for Drug Development Conference, Philadelphia, February 28-March 1, 2005.
“Combinatorial Biosynthesis of Lantibiotics and Its Role in the Development of New Chemical Tools”
63. Harvard University, Dept. of Chemistry, February 28, 2005.
“Semisynthesis of Posttranslationally Modified Antibiotics”
62. Olivet Nazarene University, Dept. of Chemistry, Kankakee, IL, February 4, 2005.
“Chemistry and Biology of Antibiotics”
61. NRSCC / NIOK conference, January 5-7, 2005. Noordwijkerhout, The Netherlands.
“Posttranslational Modifications During Lantibiotic Biosynthesis”
60. Universiteit Groningen, The Netherlands, January 4, 2005.
“Posttranslational Modifications During Lantibiotic Biosynthesis”
59. Pfizer Award Lecture, ACS National Meeting, Philadelphia, August 22-26, 2004.
“Biosynthesis of Lantibiotics”
58. Science@theInterface Conference, University of Chicago, June 3, 2004.
“Engineering of the Biosynthesis of Posttranslationally Modified Peptide Antibiotics”
57. Boston College, Department of Chemistry, May 12, 2003.
“Posttranslational Modifications During Lantibiotic Biosynthesis”
56. Vrije Universiteit Amsterdam, April 20, 2004.
“Exercises in Understanding Enzyme Mechanisms: Cyclooxygenase and Phosphite Dehydrogenase”
55. Leiden University, Department of Chemistry, The Netherlands, April 19, 2004.
“Mechanistic Studies on the Vitamin B₁₂-Catalyzed Dechlorination of Perchloroethylene”
54. 17th Wageningen Symposium on Organic Chemistry, Wageningen, The Netherlands, April 15-16, 2004.
“Chemical and Enzymatic Studies on Lanthionine Formation”

53. Washington State, Department of Chemistry, March 29, 2004.
“Engineering of Antibiotic Biosynthesis”
52. UPenn, Department of Chemistry, Philadelphia, March 25, 2004.
“Engineering of Antibiotic Biosynthesis”
51. University of Michigan, Ann Arbor, March 22, 2004.
“Engineering of Antibiotic Biosynthesis”
50. Isotopes Gordon Research Conference, Ventura, February 15-19, 2004.
“An Unusual Isotope Effect on Substrate Inhibition in Lipoxygenase”
49. University of Texas Health Science Center, Houston, Dept. of Biochemistry, January 12, 2004.
“Posttranslational Modifications Involved in Lantibiotic Biosynthesis”
48. University of Alberta, Dept. of Chemistry, Edmonton, October 3, 2003.
“Chemical and Enzymatic Studies on Lanthionine Formation”
47. Vitamin B₁₂ Gordon Research conference, Colby College, Waterville, ME. July 6-10, 2003.
“Mechanistic Studies on the Vitamin B₁₂-Catalyzed Dechlorination of Perchloroethylene”
46. University of Illinois at Chicago, Dept. of Chemistry, March 18, 2003.
“Radical Chemistry in Cyclooxygenase and Lipoxygenase”
45. Johns Hopkins University, Dept. of Chemistry, Baltimore. March 4, 2003.
“Mechanistic Studies on the Vitamin B₁₂-Catalyzed Dechlorination of Perchloroethylene”
44. Vanderbilt University, Toxicology seminar, Nashville. November 8, 2002.
“Mechanistic Studies on Prostaglandin Synthase and Lipoxygenase”
43. Oregon Graduate Institute, Dept. of Biochemistry, Portland, November 1, 2002.
“Radical Intermediates in Cyclooxygenase Catalysis”
42. University of Texas Southwestern, Dept. of Biochemistry, Dallas, October 24, 2002.
“Identification of Radical Intermediates in Prostaglandin H Synthase”
41. University of Wisconsin, Madison, September 27, 2002.
“Isotopically Labeled Arachidonic Acids for the Study of Prostaglandin Synthase and Lipoxygenase”
40. 3M Company, St Paul, Minnesota, June 3, 2002.
“Synthesis and Applications of Isotopically Labeled Arachidonic Acids for the Study of Cyclooxygenase”
39. Invited speaker, 34th Great Lakes Regional Meeting, Minneapolis, Minnesota. June 4, 2002.
“Phosphite Dehydrogenase, an Unusual PhosphorylTransferase”
38. Invited speaker, 34th Great Lakes Regional Meeting, Minneapolis, Minnesota. June 2, 2002.
“Mechanistic Studies on Vitamin B₁₂-Catalyzed Dechlorination of Perchloroethylene”
37. Stanford University, May 29, 2002.
“Synthesis of Isotopically Labeled Arachidonic Acids for the Study of Cyclooxygenase”
36. MIT, Dept. of Chemistry, April 29, 2002.
“Radically Different Enzymes: Cyclooxygenase, Lipoxygenase, and Cytochrome c Oxidase”
35. Notre Dame University, Dept. of Chemistry, March 20, 2002.
“Identification of Radical Intermediates in Cyclooxygenase”
34. University of California at San Diego, Dept. of Chemistry, March 18, 2002.
“Mechanistic Studies on the Vitamin B₁₂-Catalyzed Dechlorination of Chloroalkene Priority Pollutants”
33. Scripps Research Institute, March 15, 2002.
“Radically Different Enzymes: Cyclooxygenase, Lipoxygenase, and Cytochrome c Oxidase”
32. University of Delaware, Dept. of Biochemistry, February 11, 2002.
“Exercises in Understanding Enzyme Mechanisms: Cyclooxygenase and Azurin”

31. Duke University, Dept. of Biochemistry, February 8, 2002.
“Exercises in Understanding Enzyme Mechanisms: Cyclooxygenase and Azurin”
30. Ohio State University, Dept. Chemistry, Columbus, OH, January 31, 2002.
“Identification of Radical Intermediates in Cyclooxygenase”
29. University of Michigan, Pfizer seminar in Medicinal Chemistry, January 24, 2002.
“Identification of Radical Intermediates in Cyclooxygenase”
28. Gordon Research Conference “Quinone and Amino Acid Radical Cofactors” January 13-18, 2002.
Ventura, California.
“Identification of Radical Intermediates in Prostaglandin Synthase”
27. Rice University, Dept. of Chemistry, Houston, TX, November 30, 2001.
“Vitamin B₁₂ as Remediation Catalyst for Dehalogenation of Priority Pollutants”
26. Texas A&M University, Dept. of Chemistry, College Station, November 29, 2001.
“Exercises in Enzyme Mechanisms: Cyclooxygenase and Azurin”
25. University of Texas, Dept. of Chemistry, Austin, November 28, 2001.
“Exercises in Enzyme Catalysis: Phosphite Dehydrogenase and Azurin”
24. Colorado State University, Dept. of Chemistry, Fort Collins, Colorado, Oct. 23, 2001.
“Vitamin B₁₂ as Remediation Catalyst for Dehalogenation of Priority Pollutants”
23. Brigham Young University, Dept. Chemistry, Provo Utah, October 19, 2001.
“Exercises in Understanding Enzyme Mechanisms: Cyclooxygenase and Phosphite Dehydrogenase”
22. University of Utah, Dept. Chemistry, October 18, 2001.
“Characterization of an Arachidonyl Radical during COX-2 Catalysis”
21. SUNY Stony Brook, Dept. of Chemistry, October 11, 2001.
“Characterization of an Arachidonyl Radical during COX-2 Catalysis”
20. 4th Annual Chinese American Frontier of Science Symposium, sponsored by the National Academy of Sciences, Beijing, China, September 21-23, 2001, 2001.
19. Peking University, Department of Chemistry, Beijing, China, September 18, 2001.
“Understanding and Manipulating Enzymes Using Organic Chemistry: Prostaglandin Synthase and Azurin”
18. 222nd ACS National Meeting, Chicago. August 26-30, 2001. Invited Speaker for Symposium: “The Future is Now.” Organized by John Schwab, NIGMS.
17. Burroughs-Wellcome Fund New Investigators Meeting, San Diego, July 27-29, 2001.
“The Biosynthesis of Lantibiotics” (poster)
16. Bioorganic Gordon Research Conference, Andover, NH, June 17-21, 2001.
“Radical Intermediates in Enzyme Catalysis”
15. Johnson Foundation Discussions, “40 Years of Tunneling in Biology.” University of Pennsylvania, May 2-5, 2001. “Hydrogen Atom Transfer in Prostaglandin H Synthase”
14. UCLA, Dept. Chemistry, April 26, 2001.
“Formation of a Pentadienyl Radical during COX-2 Catalysis”
13. Washington University, St. Louis, Dept. Chemistry, April 24, 2001.
“Mechanistic Studies on Vitamin B₁₂-Catalyzed Dehalogenation of Priority Pollutants”
12. Columbia University, Dept. Chemistry, February 8, 2001.
“Mechanistic Studies on Vitamin B₁₂-Catalyzed Dehalogenation of Chlorinated Alkenes”
11. Northwestern University, Dept. Chemistry, January 25, 2001.
“Mechanistic Studies on Vitamin B₁₂-Catalyzed Dehalogenation of Chlorinated Alkenes”
10. 17th Enzyme Mechanisms Conference, January 3-6, 2001, Marco Island, Florida.
“Identification of a Pentadienyl Radical During COX-2 Catalysis” Poster selected for Oral Presentation (4 out of 110 posters selected).

9. Baylor College of Medicine, Dept. of Biochemistry and Molecular Biology, Houston, TX, November 30, 2000.
"Phosphite Dehydrogenase, an Unusual Phosphoryl Transfer Reaction"
8. Rose Hulman Institute, Dept. of Chemistry, October 26, 2000.
"Mechanistic Studies on Vitamin B₁₂ Catalyzed Dechlorination of Organic Pollutants"
7. 5th European Symposium on Vitamin B₁₂ and B₁₂-Proteins, Marburg, Germany, September 10-15, 2000.
"Mechanistic Studies on Vitamin B₁₂-Catalyzed Dechlorination of Chlorinated Alkenes"
6. 20th Midwest Enzyme Chemistry Conference, University of Chicago, September 23, 2000.
"Phosphite Dehydrogenase: An Unusual Phosphoryl Transfer Reaction"
5. Beckman Symposium, Beckman Institute, University of California, Irvine, August 25-26, 2000.
"Exploring the PostTranslational Modifications of Lantibiotics"
4. 220th ACS National Meeting August 20-24, 2000, Washington, D.C.
"Mechanistic Studies on Vitamin B₁₂-Catalyzed Dechlorination of Chlorinated Alkenes"
3. Enzyme Mechanisms Gordon conference, Meriden, New Hampshire, July 16-20, 2000.
"Phosphite Dehydrogenase: An Unusual Phosphoryl Transfer Reaction" (poster)
2. NSF Workshop on Physical Organic Chemistry, Warner Springs Ranch, California, June 24-27, 2000.
"Vitamin B₁₂-Catalyzed Dechlorination of Perchloroethylene"
1. Bioorganic Chemistry Gordon Conference, Andover, New Hampshire, June 18-22, 2000.
"Synthesis of Isotopically Labeled Arachidonic Acids for Mechanistic Studies of Prostaglandin Synthase"

GRADUATE STUDENTS SUPERVISED (Underlined: underrepresented minority students)

	NAME	DATE	PROGRAM	POSITION UPON GRADUATION/CURRENT
1	Nicole M. Okeley	1997-May 2002, Ph. D.	Org. Chem.	Postdoc Michael Gelb Now Seattle Genetics
2	Jennifer M. Vrtis	1997-June 2002, Ph. D.	Org. Chem.	Abbvie. 2020 deceased
3	Hao Zhou	1997-August 2002, Ph. D.	Org. Chem.	Postdoc James Cook Now Lundbeck Pharma
4	Justin Shey	1997-August 2002, Ph. D.	Org. Chem.	USDA, Albany CA Now Customs & Border Protection Lab, San Francisco CA
5	Matt D. Gieselmann	1998-August 2003, Ph. D.	Org. Chem.	Lubrizol
6	Kevin M. McCauley	1998-May 2003, Ph.D.	Org. Chem.	Postdoc Greg Fu, MIT Saint-Gobain Performance Plastics Now Honeywell
7	Lili Xie	1998-Sept. 2003, Ph. D.	Org. Chem.	Postdoc J. Clardy, Harvard Now Novartis Institutes for Tropical Disease (NITD) and Structure-Based Drug Discovery Center
8	Yantao Zhu Hughes	1998-June 2003, Ph.D.	Org. Chem.	GE SABIC

9	Russell P. Pesavento	1999-August 2004, Ph.D.	Inorg. Chem.	Berry Global Now Ascend Performance Materials Postdoc R. Holm, Harvard; Attorney, Sterne, Kessler, Goldstein & Fox; Dental School, U. Iowa Now Clinical Assistant Professor, U. Illinois Chicago College of Dentistry and Associate Dentist at Dr. Ginger Christian & Associates
10	Champak Chatterjee	1999-2005, Ph. D.	Chem. Biol.	Postdoc T. Muir, Rockefeller Now Prof, U. Washington
1 ^a	Erin Criswell	1999-2001, M.S.	Org. Chem.	Tate & Lyle, Decatur, IL Now E Ink Corp
11	Moushumi Paul	1999-2005, Ph.D.	Org. Chem.	Postdoc R. Raines, U. Wisconsin; USDA, Philadelphia Now NIH, National Institute for Child Health and Human Development
2 ^a	Joshua Wheatley	2000-2003, M.S.	Biochem.	ADM
3 ^a	Wesley Swanson	2000-2003, M.S.	Org. Chem.	Polaris Laboratories Now Pfizer
12	Christopher McGinley	2000-2005, Ph. D.	Org. Chem.	Hospira Pharmaceuticals Now CareFusion
13	Danica Galonic Fujimori ¹	2000-2005, Ph. D.	Org. Chem.	Postdoc C. Walsh, Harvard Medical School Now Professor, UCSF Cell. & Mol. Pharmacology
14	Ryan Woodyer ²	2001-2005, Ph. D.	Chem. Biol.	ZuChem, Peoria Tate & Lyle, Decatur Now Coca Cola, Atlanta
15	Heather Relyea	2001-2006, Ph.D.	Org. Chem.	Postdoc Tom O'Halloran Now Dow Biocides
16	Cyril Jacquot	2002-2008, Ph.D. 2011 M.D.	Org. Chem.	Pathology Residency, UCSF Now Associate Professor, Children's National Hospital/George Washington University
4 ^a	Chris Kerwood	2003-2007, M.S.	Chem. Biol.	Tate & Lyle, Decatur, IL
17	Gregory Patton	2003-2008, Ph.D.	Org. Chem.	Postdoc L. Hedstrom, Brandeis Now New England Biolabs
18	Matt Levensgood	2003-2008, Ph.D.	Chem. Biol.	Postdoc L. Kiessling, U. Wisconsin

19	Young Ok You	2003-2008, Ph.D.	Biochemistry	Now Seattle Genetics Postdoc David Cane, Brown U. Previous Asst Prof, George Mason U.
20	Leigh Anne Furgerson	2004-2009, Ph.D.	Org. Chem.	Now MacroGenics, Inc. Postdoc Dale Poulter Now GlaxoSmithKline
21	Jin-Hee Lee	2004-2010, Ph.D.	Org. Chem.	Postdoc John Denu, U. Wisconsin–Madison Now Pharmaceutical Product Development Inc, Madison
22	Lisa Cooper	2004-2009, Ph.D.	Biochemistry	Postdoc Tadgh Begley, Texas A&M Now Dow Microbial Control
23	Kevin Clark ³	2004-2010, Ph.D. J.D.	Biochemistry	Franklin Pierce Law School Now Patent Counsel at Genentech
24	Bo Li	2004-2009, Ph.D.	Biochemistry	Postdoc C. Walsh, Harvard Medical School Now Assoc Prof, UNC Chape Hill
5 ^a	<u>Abdul Gabisi</u>	2004-2007, M.S.	Biochemistry	Researcher M.D. Anderson, Houston Now Harris Health System
25	Ian Gut ⁴	2005-2011, Ph.D.	Microbiology	Postdoc US Army Now PI, Battelle National Biodefense Institute
26	John Witteck	2005-2010, Ph.D.	Org. Chem.	New Leaf Symbiotics
27	Trent Oman	2006-2011, Ph.D.	Chem. Biol.	Eli Lilly
28	<u>Juan Velásquez</u>	2006-2011, Ph.D.	Chem. Biol.	Procter & Gamble Now Merck
6 ^a	Lindsey Johnstone Shea	2007-2011, M.S. 2015, M.D.	Chem. Biol.	Medical School, UIUC Now Resident, Indiana University School of Medicine
7 ^a	<u>Isabel Neacato</u>	2010-2012, M.S. 2014, M.D.	Microbiology	Medical School, UIUC Now Resident, Beaumont Health, Royal Oak, Michigan
8 ^a	Tong Hee Koh	2009-2012, M.S.	Biochemistry	Hanmi Pharmaceutical, S. Korea
29	Patrick Knerr	2008-2013, Ph.D.	Chem. Biol.	DuPont Crop Protection Now Novo Nordisk
30	Neha Garg ⁵	2008-2013, Ph.D.	Biochemistry	Postdoc P. Dorrestein, Skaggs School of Pharmacy Now Asst Prof Georgia Tech
31	John Hung	2008-2013, Ph.D.	Chem. Biol.	Sigma-Aldrich Now Amyris

32	Yanxiang (Nancy) Shi	2008-2013, Ph.D.	Chem. Biol.	Syngenta Crop Protection Now CP Kelco
33	Noah Bindman	2008-2013, Ph.D.	Chem. Biol.	Seattle Genetics
34	Ayse Ökesli	2008-2014, Ph.D.	Chem. Biol.	Postdoc C. Khosla, Stanford Now Gilead, CA
35	Spencer Peck	2009-2014, Ph.D.	Chem. Biol.	Postdoc E. Balskus, Harvard Kintai Therapeutics, MA Now Pfizer, CO
36	Min Zeng ⁶	2008-2015, Ph.D.	Cell Biol.	Lecturer Indiana U. – Purdue Now Data Analyst, Facebook
37	Yi Yu	2009-2015, Ph.D.	Biochemistry	Postdoc Huimin Zhao, UIUC Beam Therapeutics, MA Now Nvelop Therapeutics
38	Weixin Tang	2009-2015, Ph.D.	Chem. Biol.	Postdoc David Liu, Harvard Now Asst Prof U. Chicago
39	Xiao Yang	2009-2015, Ph.D.	Chem. Biol.	Radiant Genomics, CA Zymergen, CA Now Epic Bio
40	<u>Chantal Garcia De Gonzalo</u>	2010-2015, Ph.D.	Chem. Biol.	Amyris, CA
41	Subha Mukherjee	2010-2015, Ph.D.	Chem. Biol.	Bristol-Myers-Squibb
42	<u>Manuel Ortega</u>	2010-2015, Ph.D.	Biochemistry	Postdoc C. Drennan, MIT Now Beam Therapeutics, MA
43	Xiling Zhao	2011-2017, Ph.D.	Chem. Biol.	Amyris, CA
44	Nidhi Kakkar	2012-2018, Ph.D.	Chem. Biol.	Intel, Portland OR
45	Emily Ulrich	2012-2018, Ph.D.	Chem. Biol.	Postdoc C. Drennan, MIT Now ASBMB
	Joshua Wagoner	2012-2015	Chem. Biol.	Not known
46	Kenton Hetrick	2013-2018, Ph.D.	Chem. Biol.	Postdoc R. Raines, MIT Now Beam Therapeutics
47	Kwo-Kwang (Abe) Wang	2013-2018, Ph.D.	Chem. Biol.	Postdoc L. Nolan, MIT
48	Zhengan Zhang	2013-2018, Ph.D.	Chem. Biol.	Postdoc C. Voigt, MIT
49	Silvia Bobeica	2013-2020, Ph.D.	Org. Chem.	RemeGen, CA
50	Linna An	2014-2019, Ph.D.	Chem. Biol.	Postdoc David Baker, U. Washington
51	Kuan-Yu (Nick) Lai	2014-2019, Ph.D.	Biochemistry	Cytiva, UT Now Regeneron
52	Chang He	2014-2020, Ph.D.	Chem. Biol.	Kumquat Biosciences, CA
53	Subhanip Biswas	2014-2020, Ph.D.	Org. Chem.	Postdoc Suzanne Walker, Harvard Now Slingshot Biosciences, CA
9 ^a	<u>Marc Gancayco</u>	2015-2018, M.S.	Chem. Biol.	Stanford Healthcare
54	Martin McLaughlin	2015-2021, Ph.D.	Chem. Biol.	Postdoc Michael Fischbach, Stanford
55	Max Simon	2016-2022, Ph.D.	BioE	LanzaTech, IL
56	Imran Rahman	2016-2021, Ph.D.	Biochemistry	Capsida Biotherapeutics Inc., CA

				Now Seawolf Therapeutics, CA
57	Page Daniels	2017-2022, Ph.D.	Biochemistry	Primordial Genetics, CA
58	Tung Le	2017-2023, Ph.D.	Chem. Biol.	Postdoc Alanna Schepartz, UC Berkeley
59	Chunyu (Layla) Wu	2017-2022, Ph.D.	Biochemistry	Merck, NJ
60	Emily Desormeaux	2018-2024, Ph.D.	Chem. Biol.	
61	Sara Eslami	2018-2024, Ph.D.	Chem. Biol.	Just - Evotec
	Dinh Nguyen ⁷	2018-present	Chem. Biol.	
62	Raymond Sarkisian	2018-2023, Ph.D.	Org. Chem.	Amgen, CA
	Haoqian (Lainey) Liang	2018-present	Biochemistry	
	Rachel Martini	2018-present	Biochemistry	
10 ^a	Autumn Frerk	2019-2023, M.S.	Chem. Biol.	Beauty Quest Group, IL
	Yue Yu	2019-present	Chem. Biol.	
	Tianhui (Hina) Zhou	2019-present	Biochemistry	
	Alexis Lower	2020-present	Chem. Biol.	
	Youran Luo	2020-present	Inorg. Chem.	
	<u>Enleyona Weir</u>	2021-present	Org. Chem.	
11 ^a	Anna Conley	2021-2022, M.S.	Inorg. Chem.	
	Jeff Chen	2022-present	Chem. Biol.	
	David Freytag	2022-present	Inorg. Chem.	
	Tony Zhang	2022-present	Org. Chem.	
	<u>Vanessa Reyes Lopez</u>	2023-present	Org. Chem.	
	Pelham Kogut	2023-present	Biochemistry	
	Ceilia Leso	2023-present	Chem. Biol.	

^a Masters of Science. All others PhD. ¹Supervised jointly with David Y. Gin. ² Supervised jointly with Huimin Zhao (Chem E). ³ Supervised jointly with Yi Lu. ⁴Supervised jointly with Stephen Blanke (Microbiology). ⁵Supervised jointly with Satish Nair (Biochemistry). ⁶Supervised jointly with Jie Chen (Cell and Developmental Biology). ⁷Supervised jointly with Douglas Mitchell.

POSTDOCTORAL ASSOCIATES SUPERVISED

	NAME	DATE	GRADUATE INSTITUTION	POSITION UPON LEAVING UIUC
1	Rashna Balsara	1998-2002	BARC ¹	Postdoc Victoria Ploplis Now Research Assoc Prof, Notre Dame
2	Sheng Peng	1999-2003	SIOC ²	Dupont
3	Xingang Zhang	2003-2007	SIOC ²	Professor Shanghai Institute of Organic Chemistry
4	Derek Pratt	2003-2005	Vanderbilt	Prof, U. of Ottawa, Canada
5	Michelle Ni	2004-2006	NC State	W.R. Grace
6	Gongyong Li	2005-2007	SIOC ²	Shanghai Chemspec Corporation
7	Amanda McClerren	2005-2007	Duke University	Monsanto Corporation
8	Emily Fogle	2005-2007	UC Davis	Assoc Prof, California Polytechnical – San Luis Obispo

9	Robert Cicchillo	2006-2008	Penn State	Research Scientist – Dow, Indianapolis, IN (Now Corteva)
10	Svetlana Borisova (joint w/ W. Metcalf)	2007-2011	UT Austin	Amyris, Emeryville, CA
11	Yuki Goto	2008-2009	U Tokyo	Assoc Prof, U. Tokyo Now Prof. U. Kyoto
12	Nicholas Llewellyn	2008-2009	U Cambridge, UK	Lecturer, Chemistry, Emory
13	Remco Merckx	2008-2009	Utrecht University The Netherlands	Netherlands Cancer Institute
14	Seung-Young Kim	2009-2011	University of Tokyo	Asst Prof, Sun Moon U., Korea
15	Michael Kuemin	2009-2010	University of Basel, Switzerland	Bachem, Bubendorf, Switzerland
16	Heather Cooke	2009-2011	Boston College	Biogen
17	Huan Wang	2010-2013	U of Maryland	Prof, Nanjing U.
18	Gabrielle Thibodeaux ³	2010-2016	UT Austin	Research Asst, McGill U. Now Bio Basic
19	Despina Bougioukou	2010-2013	U of Florida	DuPont, Wilmington, DE Tate & Lyle, Hoffman Estates, IL Now Ingredion
20	Jiangtao Gao	2010-2014	U Mississippi	Prof, Fujian Agriculture and Forestry University
21	Qi Zhang	2011-2014	SIOC ²	Prof, Fudan U.
22	Ran Zhang	2011-2012	U British Columbia	Lecturer, UBC-Okanagan Now Consultant, MNP LLP
23	Rebecca Splain	2011-2014	U Wisconsin	GlaxoSmithKline
24	Zedu Huang	2012-2016	U Alberta	Asst Prof, Fudan U.
25	Debapriya Dutta	2012-2018	U Florida Gainesville	Postdoc Shuming Nie, UIUC Now Staff Scientist I, Carle Foundation Hospital, Urbana, IL
26	Christopher Thibodeaux (joint w/ TJ Ha)	2012-2016	UT Austin	Assoc Prof, McGill U.
27	Mark Walker	2013-2018	UC Berkeley	Asst Prof, U. New Mexico
28	Lindsay Repka	2013-2017	Caltech	Asst Prof, Middlebury College, Vermont
29	Liujie Huo	2014-2017	U Saarland, Germany	Asst Prof, Shandong U.
30	Ian Bothwell	2015-2020	Memorial Sloan- Kettering	Vertex Pharmaceutical
31	Michael Funk	2015-2017	MIT	Associate Editor, <i>Science</i>
32	Julian Hegemann	2016-2019	University of Marburg, Germany	Postdoc Roderich Süssmuth, TU Berlin

33	Graeme Howe	2016-2019	University of Toronto	Now junior group leader Helmholtz Institute (HIPS) Asst Prof, Queen's University, Canada
34	Chi Ting	2017-2020	UC Berkeley	Asst Prof, Brandeis U.
35	Jeella Acedo	2018-2019	University of Alberta	Asst Prof, Mount Royal U., Calgary, Canada
36	David Krist	2018-2020	Northwestern U	Medical School, UIUC
37	Daisuke Fujinami	2019-2021	Kyushu U	Postdoc Ikuro Abe, U. Tokyo Now Asst Prof, University of Shizuoka, Japan
38	Shi Liu	2019-2021	U Wisconsin Madison	Postdoc U Wisconsin, Madison; Now Asst Prof Natl Univ. of Singapore
39	Richard Ayikpoe ³	2020-2023	U Denver	Merck, NJ
40	Hyunji Lee	2020-2022	Duke U	Asst Prof, Kyungshung U.
41	Constantin Giurgiu	2021-2022	Harvard U	Evozyne
42	Josseline Ramos-Figueroa ³	2021-present	University of Saskatchewan	
43	Jingqi Chen	2022-present	University of Groningen	
44	Ryan Moreira	2023-present	University of Waterloo	
45	Chandrashekhar (Shekhar) Padhi	2023-present	ETH Zurich	
46	Yuqing Li	2023-present	Nanjing University	
47	Lide Cha	2023-present	North Carolina State University	
48	Songyi Xue	2023-present	University of South Florida	

¹Bhabha Atomic Research Center ² Shanghai Institute of Organic Chemistry; ³ members of URM groups

UNDERGRADUATE STUDENTS SUPERVISED *Students listed in italics font are authors on papers*

	NAME	DATES	PROGRAM ¹	INSTITUTION	POSITION UPON LEAVING UIUC
1	<i>Joseph Dupont</i>	Summer 1999 Snyder fellow	Sophomore Chemistry	Worcester Polytech	Continue BS in Worcester
2	Rohini Madigalker	Spring & Summer 1999	Sophomore Chem. Eng.	UIUC	unknown
3	<i>Anthony Dearth</i>	Summer & Fall 2000	Freshman Chem. Eng.	UIUC	Equistar Inc.
4	<i>Brian Young</i>	Spring 2000-Spring 2001	Junior Chemistry	UIUC	Graduate School Case Western
5	Mandy Chan	Summer 2000-Spring 2001	Senior Chemistry	UIUC	Cabrillo Labs San Diego
6	Leah Smith ³	Summer 2000 (HURF) ³	Freshman	Howard Univ.	Pharmacy School

7	Aaron Wilson	Summer 2000-Spring 2002	Biology Junior Chemistry	UIUC	U. Illinois, Chicago Magn. Reson. Microsensors Corp.
8	<i>Stacey Rimkus</i>	Fall 2000-Spring 2002	Junior Cell, Struct. Biol.	UIUC	Graduate School U. Wisconsin. PI David Wassarman
9	Meera Raja	Summer 2001-present	Junior Chemistry	UIUC	Graduate School Northwestern U. PI Tom O'Halloran
10	Carol Guerra ³	Summer 2002-Spring 2003	Sophomore, Biochemistry	UIUC	Left UIUC before graduating
11	Katrina de Ocampo ³	Summer 2002-2003	Senior Chemistry	UIUC	Abbott Labs
12	Monica Shete	Summer 2002-2005 (HURF) ³	Freshman Biology	UIUC	Medical School
13	Eric Bunnelle	Fall 2003-Spring 2004	Sophomore Chemistry	UIUC	Graduate School UC Berkeley. PI Richmond Sarpong
14	Phillip Stewart-Hutchinson	Summer 2003-2005	Junior Chemistry	UIUC	Graduate School NYU
15	<i>Jerry Jeffers</i>	Summer 2003-Summer 2004	Junior Chemistry	UIUC	deceased while at UIUC
16	Bryan Prendergast	Summer 2003-2005	Junior Chemistry	UIUC	Medical School
17	Juyoung Jang	Summer 2003-2005	Sophomore Biochemistry	UIUC	NIH
18	<i>Yong Leung</i>	Summer 2003-2005	Junior Chemistry	UIUC	
19	Katie Peterson	Summer 2004 Snyder fellow	Junior Chemistry	Illinois Wesleyan	Graduate School, Indiana U.
20	<i>Akinola Soyode-Johnson</i> ³	Summer 2004-2006	Sophomore Chemistry	UIUC	Johnson & Johnson Pharmaceutical Research & Development, La Jolla, CA
21	Daniel Delacruz ³	Summer 2004-2006	Freshman Chemistry	UIUC	Kraft Inc
22	<i>Erik Plata</i> ³	Summer 2005	Junior Chemistry	TAMU Kingsville	PhD, Chemistry, Texas A&M w/ Daniel Singleton Postdoc w/ Donna Blackmond, Scripps Now Asst Prof, U. Texas Rio Grande Valley
23	Nicole Andrusovich ³	Summer 2006	Sophomore Chemistry	UIUC	Nursing School

24	Justin Poole ³	Summer 2006-Spring 2007	Freshman Chemistry	UIUC	Med School, UIC
25	Gabe Hintzsche	Summer 2006-Spring 2008	Sophomore Chemistry	UIUC	Med School, Mid-western U, Glendale, AZ
26	Jose Israel Armendariz Guajardo ³	Summer 2006	Sophomore	ITSM, Monterrey Mexico	
27	Jennifer Palow	Summer 2007	Junior	UConn	Graduate School Boston College
28	<i>Anita Chary</i>	Summer 2006-Spring 2008		UIUC	Teacher in Guatemala entered WUSTL MD/PhD program in Fall '09
29	Brittney Cole ³	Fall 2007-Dec 2008	Junior	UIUC	MS program Biotechnology, Rush University
30	Michael Jellinek	Spring 2007-2009	Sophomore Biochemistry	UIUC	Rush Medical School, Chicago
31	Shelly Lim	Spring 2007-2009	Sophomore Biochemistry	UIUC	PhD, Princeton Postdoc w/ X. Zhao, Memorial Sloan Kettering Medical Writer at ICON
32	Luis Negron ³	Summer 2007	Sophomore	U Puerto Rico at Rio Piedras	Now Senior Medical Writer at Ashfield PhD, U. Puerto Rico, Río Piedras Lilly del Caribe at Carolina
33	Daniela Irma Herrera ³	Summer 2008	Sophomore	ITSM, Monterrey Mexico	
34	<i>Robert Koehler</i> ³	Summer 2008	Sophomore	San Diego State	Graduated with BS 2011
35	Myrna Rivas ³	Summer 2009	Junior, Biology	UIUC	Graduated with BS 2011
36	<i>Xenia Okalibe</i> ³	Summer 2009	Junior, Chemistry	U Michigan	Pharmacy School
37	Steven Martinez ³	Summer 2009	Sophomore, pre-Pharmacy	Cal State U, Dominguez Hills	Graduate School, UC Santa Barbara; PI Armen Zakarian
38	Amanda Brunner	Spring 2009-2011	Junior, Chemistry	UIUC	Medical School

39	Claire Creed	Spring 2009-2011	Biology Sophomore	UIUC	Medical School
40	Victor Garcia-Lopez ³	Summer 2010	Biology Junior, Chemistry	ITESM	Graduate School, Rice University. PI James Tour and Angel Marti; now Prof. LSU Pharmacy School
41	Kwadwo (Kojo) Opoku-Nsiah ³	Summer 2010	Senior, Chemistry	Colby College	Medical School North Shore Center for Medical Aesthetics Graduate School UIC Dept Med Chem & Pharmacognosy. PI Brian Murphy
42	<i>Nicholas Herrman</i>	Summer 2010	Junior, Chemistry	Albion College	Graduate School Toxicology, U. Rochester
43	<i>Alejandro Bueno</i> ³	Fall 2010-Spring 2013	Sophomore	UIUC	
44	Vanessa Nepomuceno ³	Summer 2010	Chemistry, Rising Senior	South Carolina State U	
45	Candace Wong	Spring 2011-Spring 2014	Freshman, MCB	UIUC	
46	Nejmun Hussain ⁵	Fall 2011-2012	Junior, MCB	UIUC	
47	Michael Celestine ³	Summer 2010 & 2011	Chemistry, Rising Senior	U Virgin Islands	Graduate School, Old Dominion University Graduate School, Nursing & Public Health, Columbia University
48	<i>Ting Chen</i>	Spring 2012-Spring 2013	Junior, Chemistry	UIUC	Graduate School, Northwestern Biomedical Eng. Transferred to Kansas State
49	<i>Yunli Ma</i>	Spring 2012-Spring 2013	Junior, Biochemistry	UIUC	
50	Tia Harper	Spring 2012-Spring 2013	Sophomore, Chemical Engineering	UIUC	
51	Megan Dudek	Summer 2012	Senior, Biochem./Mol Biology	U Wisconsin- Eau Claire	
52	<i>Rachel Joyce</i>	Summer 2012-Spring 2014	Junior, Molecular & Cell Biology	UIUC	Graduate school, LSU, Biology MS
53	Yunhong Wang	Fall 2012- Spring 2015	Sophomore, Biochemistry	UIUC	Bioengineering, Johns Hopkins Research assistant, UC Berkeley
54	Dhruv Kumar	Fall 2012- Spring 2014	Sophomore, Molecular & Cell Biology	UIUC	

55	Katarzyna Dubiel	Fall 2012- Spring 2014	Junior, Molecular & Cell Biology	UIUC	Graduate school, UW Madison, Integrated Biochemistry. PI James Keck. Now Asst Prof SUNY-Brockport
56	Bryan Schaeffer	Spring 2013-Spring 2015	Freshman, Biology	UIUC	
57	Kyle Ridlen	Spring 2014-Spring 2015	Junior, Molecular & Cell Biology	UIUC	Graduate school, Indiana U.-Purdue U., Indianapolis, Physiology
58	Rigoberto Hernandez Cervantes ³	Summer 2014	Junior	Indiana U	
59	<i>Marc Gancayco</i> ³	Summer 2014	Junior	San Jose State U	Graduate school, UIUC
60	Aaron Briggs ^{3,4}	Summer 2014	Senior	Dartmouth	Med School, Dartmouth
61	Shivaliben Patel	Spring 2015-Spring 2016	Sophomore, Molecular & Cell Biology	UIUC	Med School, Rush Medical College
62	<i>See Hyun "Anna" Chee</i>	Spring 2015-Fall 2016	Sophomore, Chemical Engineering	UIUC	
63	Kyle McKillop	Spring 2015-Fall 2016	Freshman, Chemistry	UIUC	Materials Engineer, Honeywell
64	Zack Foust	Spring 2015-Spring 2016	Sophomore, Molecular & Cell Biology	UIUC	
65	Shan Huang	Summer 2015	Junior, Chemistry	Fudan U	Graduate school, Caltech, PI S. Mayo
66	<i>Sarah Ackenhusen</i>	Fall 2015-Summer 2018	Sophomore, Chemistry	UIUC	Graduate school, Alison Narayan Lab, U. Michigan-Ann Arbor. PI Alison Narayan
67	Mary Hwang	Fall 2015-Spring 2016	Sophomore, Molecular & Cell Biology	UIUC	
68	Anjelica Kokinias	Spring 2016-Spring 2017	Sophomore, Molecular & Cell Biology	UIUC	Nursing School
69	<i>Terry Kim</i>	Spring 2016-Summer 2018	Sophomore, Molecular & Cell Biology	UIUC	Graduate school, Caltech. PI Dan Semlow

70	Yery Kim	Summer 2017-Spring 2018	Senior, Chemistry	UIUC	
71	Zhe Li	Summer 2017-Fall 2018	Junior, Chemistry	UIUC	
72	Alexander Pilski	Spring 2017-Fall 2018	Junior, Chemistry	UIUC	Graduate school, U. Minnesota; PI Steven Graves
73	Yuanheng “Henry” Wang	Summer 2017-Fall 2017	Junior, Chemistry	UIUC	Graduate school, Stanford. PI Todd Martinez
74	Audrey Rex	Summer 2017	Junior	Eastern Illinois U	Graduate school, University of Georgia, Microbiology PI Michael Trent
75	Jonathan Gong	Spring 2018-Fall 2018	Freshman, ChBE	UIUC	
76	William Farrell	Summer 2018	Junior, Molecular & Cell Biology	UIUC	
77	<i>Clara Frazier</i>	Summer 2018	Senior, Biochemistry & Animal & Poultry Science	Virginia Tech	Graduate school, Integrated Program in Biochemistry, U. Wisconsin, Madison. PI Amy Weeks
78	<i>Abby Trouth</i>	Summer 2018	Junior, Biochem & Molecular Biology	Gustavus Adolphus College	Graduate school, Structural Biology and Biochemistry Program, University of Colorado Anschutz Medical Campus
79	Autumn King	Fall 2018-Spring 2020	Junior, Chemistry	UIUC	ACE Teaching Fellowship, U. of Notre Dame
80	<i>Alondra Sanchez</i> ³	Fall 2018-Spring 2020	Junior, Chemistry	UIUC	Ingredion Inc. Now grad school Northwestern. PI Xiaoyu Zhang
81	Margo van Loon	Fall 2018	Junior, Chemistry	UIUC	
82	Lark Moreno ³	Spring 2019-Summer 2021, Spring 2022	Sophomore, ChBE	UIUC	
83	Ramiro Alvarado ³	Summer 2019	Freshman, Chemistry	UIUC	
84	David Qiu	Summer 2019	Junior, Chemistry	Vanderbilt	Graduate school, UNC-Chapel Hill. PI Kevin Weeks
85	Chenmengxiao “Roderick” Pan	Summer 2019	Junior, Chemistry	Fudan U	Graduate school, Princeton U. PI David MacMillan

86	<i>Darian Dorantes</i> ³	Spring 2020-Fall 2021	Sophomore, Molecular & Cell Biology	UIUC	
87	<i>Isaiah Lopez</i> ³	Fall 2021-Summer 2023	Junior, Molecular & Cell Biology	UIUC	Graduate School Harvard U.
88	Amanda Lexington ³	Fall 2021-Summer 2023	Junior, Molecular & Cell Biology	UIUC	
89	Rina Newhouse	Fall 2021-Fall 2022	Junior, Chemistry	UIUC	
90	Tomer Markovich	Spring 2022-present	Junior, Molecular & Cell Biology	UIUC	Graduate School Cornell U
91	Katherine Dallmier	Summer 2022	Junior, Chemistry & Biology	St. Olaf	
92	Charlotte Gasiorek	Fall 2022-Spring 2023	Junior, Chemistry	UIUC	
93	Garrett Barksdale	Fall 2022-present	Sophomore, Biochemistry	UIUC	
94	Arisu Oya	Spring 2023-present	Junior, Molecular & Cell Biology	UIUC	
95	<i>Shuyun (Joey) Xu</i>	Spring 2023-present	Freshman, Chemistry	UIUC	
96	Natalie King	Summer 2023	Junior, Chemistry	Monmouth College	
97	Matthew Halliman ³	Summer 2023-present	Junior, Chemistry	UIUC	
98	Yi Yang	Fall 2023-present	Sophomore, Chemistry	UIUC	
99	Sumehra Taj	Fall 2023-present	Junior, Chemistry	UIUC	
100	Liyang Qu	Winter 2023-present	Freshman, Material Science & Engineering	UIUC	
101	Denys Lytviak	Spring 2024-present	Junior, Chemistry	UIUC	

¹ Academic status and major of the student at the time of joining the laboratory

² Twenty-three students, listed in italics, are co-authors on research papers in the period 2000-present

³ Thirty-one underrepresented minority students in the period 2000-present

⁴ HURF = Howard Hughes Undergraduate Research Fellowship Program

⁵ Adjunct advisor for Anne Baranger student after Anne left UIUC

At least 44 students went on to Graduate School (29), Medical School (9), Pharmacy School (3), or Nursing School (3). For many summer experience students from other institutions, it is not known to us what careers they pursued.

VISITING SCHOLARS SUPERVISED

	NAME	DATE	INSTITUTION
1	Blanca Garcia	2006	Universidad Autónoma Metropolitana-Iztapala
2	Evelyn Molloy	2009	University College Cork, Ireland
3	Luis Salazar Ocampo	2010	Universidad Autónoma Metropolitana-Iztapala
4	Nina Wichlein	2012	University of Munich
5	Evert Peterse	2014	Radboud University
6	Shan Huang	2015	Fudan University
7	Tânia Caetano	2016	University of Aveiro

8	Claudio Navo	2017	University of La Rioja
9	Nuria Mazo	2017	University of La Rioja
10	Emmanuele Severi	2018	University of York
11	Javier Murciano-Calles	2021	University of Granada

EDUCATIONAL ACTIVITIES

COURSE	LEVEL	DATE
Chemistry Laboratory 1	freshman	Fall 1997
Introduction to Organic Chemistry Research	graduate	Spring 1998
Advanced Physical Organic Chemistry	senior/graduate	Fall 1998
Organic Chemistry Seminar	graduate	Spring 1999
Advanced Physical Organic Chemistry	senior/graduate	Fall 1999
Enzyme Reaction Mechanisms and Drug Target Interactions	graduate	Spring 2000
Advanced Physical Organic Chemistry	senior/graduate	Fall 2000
Structure and Synthesis Laboratory	sophomore	Fall 2001
Enzyme Reaction Mechanisms and Drug Target Interactions	graduate	Spring 2002
Structure and Synthesis Laboratory	sophomore	Fall 2002
Advanced Physical Organic Chemistry	senior/graduate	Fall 2003
Enzyme Reaction Mechanisms and Drug Target Interactions	graduate	Spring 2004
Introduction to Organic Chemistry	sophomore	Fall 2004
Structure and Synthesis Laboratory	sophomore	Spring 2005
Introduction to Organic Chemistry	sophomore	Fall 2005
Chemical Biology Laboratory	senior/graduate	Spring 2007
Organic Chemistry Seminar	graduate	Fall 2007
Enzyme Reaction Mechanisms and Drug Target Interactions	senior/graduate	Spring 2008
Chemical Biology Laboratory	senior/graduate	Spring 2008
Introduction to Organic Chemistry	sophomore	Fall 2008
Chemical Biology Laboratory	senior/graduate	Spring 2009
Chemical Biology Seminar	graduate	Fall 2010
Physical Organic Chemistry	graduate	Fall 2011
Physical Organic Chemistry	graduate	Fall 2012
Physical Organic Chemistry	graduate	Fall 2013
Structure and Synthesis Laboratory	sophomore	Spring 2016
Structure and Synthesis Laboratory	sophomore	Spring 2017
Structure and Synthesis Laboratory	sophomore	Spring 2018
Structure and Synthesis Laboratory	sophomore	Spring 2019
Advanced Physical Organic Chemistry	senior/graduate	Fall 2019
Advanced Physical Organic Chemistry	senior/graduate	Fall 2020
Advanced Physical Organic Chemistry	senior/graduate	Fall 2021
Advanced Physical Organic Chemistry	senior/graduate	Fall 2022
Advanced Physical Organic Chemistry	senior/graduate	Fall 2023

Average student evaluations 1997-2023: 4.4 out of 5.0.

UNDERREPRESENTED MINORITY STUDENT MENTORING

Started exchange program with Texas A&M Kingsville's Bridges to Doctorate program

Involved in outreach activities as Director of the Chemistry-Biology Interface Training Grant

Established SACNAS chapter at UIUC and serve as co-faculty advisor with Prof. Rochelle Gutierrez (Math Education and Latino/Latina Studies)

Supervised 31 underrepresented minority undergraduate students, 8 underrepresented minority graduate students, and 3 underrepresented minority postdocs.

TEACHING AWARDS

Listed in 1998, 1999, 2000, 2003, 2007, 2018, 2019, 2021, and 2022 on the list of “Teachers ranked as excellent by their students” published by the *Daily Illini*. Results are based on Instructor and Course Evaluation Surveys (ICES) maintained by the university’s Measurement and Evaluation, Center for Innovation in Teaching and Learning and consists of the top 10% of instructors in all disciplines across campus based on student evaluations.

1999 School of Chemical Sciences Teaching Award

2008 School of Chemical Sciences Teaching Award