

Jeffrey Joseph Rohde, Ph. D.

Professor of Chemistry
Franciscan University of Steubenville
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Education

Harvard University Doctor of Philosophy (Concentration: Organic Chemistry) Research Advisor: Professor Elias J. Corey	Cambridge, MA November 1996
The Ohio State University Bachelor of Science: <i>Summa Cum Laude with Distinction in Chemistry</i> Research Advisor: Professor John S. Swenton	Columbus, OH June 1990

Professional Experience

<i>Abbott Laboratories</i> Research Chemist Senior Research Chemist Associate Research Investigator Research Investigator	<i>North Chicago and Abbott Park, IL</i> November 1996 - November 1999 November 1999 - 2002 2002 - 2008 2008 - July 2009
<i>Franciscan University of Steubenville</i> Associate Professor of Chemistry Professor of Chemistry Chair of the Department of Chemistry and Physics Administrative Coordinator of the Dual Degree Engineering Program Founder and Director, Franciscan Institute for World Health (FIWH) Co-Director, Franciscan Institute for Science and Health (FISH)	<i>Steubenville, OH</i> August 2009 - May 2013 May 2013 - present June 2011 - 2015 January 2013 - 2015 November 2010 - present March 2013 - present
<i>Duquesne University</i> Scholar in Residence	<i>Pittsburgh, PA</i> October 2014 - present

Franciscan University of Steubenville - Department of Chemistry and Physics

Primary Educational Responsibilities: Lecture Instructor for CHM 203 and CHM 204 (Organic Chemistry) and CHM 431 (Advanced Organic Chemistry); Laboratory Instructor for CHM 110/111 (Introductory Chemistry) and CHM 203 and CHM 204 (Organic Chemistry); Co-Supervisor and Co-Coordinator of the Joint FUS - FIWH - Abbott/AbbVie, Summer, Undergraduate, Neglected Diseases, Internship Program (May 2011 to present); and, Joined Duquesne University Summer REU Program as a Co-Investigator with Prof. Jeffrey D. Evanseck (January 2014 to present).

Primary Administrative Responsibilities: Founder and Director of the Franciscan Institute for World Health (FIWH, Fall 2010 to present, self initiated); Chair of the Department (Summer 2011 to 2015); Faculty Hiring Search Chair (Summer 2011 to Summer 2012, 2 CHM FTE; Summer 2013 to present, 1 EGR FTE); Administrative Coordinator of the Dual Degree Engineering Program (January 2013 to present, invited); Co-Director of the Franciscan Institute for Science and Health (FISH, March 2013 to present, invited). Established FIWH and FISH Collaborative Undergraduate Summer Research Programs (self initiated) providing partial financial support for co-selected undergraduate interns (not limited to Franciscan students) with partners (1) Prof. Timothy F. Jamison, Massachusetts Institute of Technology, Cambridge, MA (January 2013 to present); (2) Ryan Spoering, Ph.D., Director of Undergraduate Laboratories, Harvard College, Cambridge, MA (January 2013 to present); (3) Soongyu Choi, Ph.D., Green Cross Corporation, Yongin, Republic of Korea, (January 2014 to August 2014); and, (4) Ajit Jadhav, Chief NCGC Branch, NIH/NCATS, Rockville, MD (January 2015 to 2017).

Abbott Laboratories

Advanced Technology - Hit to Lead (2007 - July 2009): senior chemistry member of hit to lead group supporting and actively participating with management in the transition into Advanced Technology and the new company direction. Experimenting in matrix management of associates and as a chemistry point person in a new project management model. Continuing to support the HSD1 project in transition into Neuroscience and LU as well as in shoring up its patent estate. Continuing collaboration with direct reports, Marina Pliushchev and Robert Gregg, 1Q07 to July 2009.

Target Lead Discovery - Hit to Lead (2006-2007): senior chemistry member of a newly formed hit to lead group emphasizing pursuit of rapid, data driven decision endpoints with more thorough hit set analyses for accelerated project advancement or termination upon emerging from HTS. Emphasized use of advanced technologies in

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medicinal chemistry efforts (pilot of e-notebook, library / parallel synthesis techniques, HTOS, HTP, high throughput ADME, etc.) in collaboration with Neuroscience on the T type ion channel project. Assumed chemistry group leader responsibilities for the HSD1 project in transition. Published first primary author JMC paper on HSD1 chemistry 4Q 06. Collaborated with direct reports Marina Pliushchev 1Q 06 - 1Q 07; Hwan-soo Jae 1Q 06 - 4Q 06; and, recruited and collaborated with Robert Gregg 4Q 06 - 1Q 07.

Highlight Accomplishment 1: In the T type project, I worked effectively with the TLD HTL team, AT support, the project team, and Integrative Pharmacology to meet jointly established compound goals and timelines. POP was not achieved. The collaboration and goals were renewed; however, joint work ceased shortly thereafter (no POP).

Highlight Accomplishment 2: In the HSD1 project, I contributed to the successful resurrection of this project from termination in MDR, through PLT Milestones A & B, and to a clinical candidate scheduled for FIM studies in 4Q07 in Neuroscience. Received GPRD Discovery Leadership Award 2006 for this effort.

Metabolic Disease Research (2001-2006): member of a cutting edge medicinal chemistry team emphasizing all aspects of modern and emerging technology from computer and X-ray crystallography assisted design to automated parallel synthesis / purification of focused libraries and use of high throughput ADME screens. Collaborated with direct report, Marina Pliushchev, 2001 - 2006. Delivered first invited ACS lecture at Illinois State University 3Q 05. Participated in on-campus recruiting at Harvard University, Boston College, and MIT (2002, 2003). Received grade level adjustment in 2002.

Highlight Accomplishment: In the HSD1 project, I prepared a lead compound as a combination of many of the principles worked on and developed by the team. This compound brought about a significant interest in the project due to its drug-like properties and in vivo efficacy. Received GPRD Discovery Scientific Innovation Award Nomination in 2004 and GPRD Discovery Leadership Award Nomination in 2005.

Exploratory Neurology and Urology (2000-2001): member of a medicinal chemistry team focused primarily on traditional mechanistic probing, therapeutic optimizing, and pharmacokinetic enhancing singleton synthesis. Participated in on-campus recruiting at The University of Kansas, Harvard University, Boston College, and MIT.

Exploratory Research Chemistry (1996-2000): member of a highly mobile research team that maximized company chemistry resources in initiating research on novel targets and in completing endgame studies on mature projects in Cancer, Urology, Neurology, and Immunology. Assigned first direct report 4Q 99 - 2Q 00. Received first promotion 4Q 99 and first opportunity to act as a sub-group leader. Organized an in-house Medicinal Chemistry Lecture Series for Chemists and Biologist by Professor Les Mitscher of the University of Kansas. Participated in on-campus recruiting at The University of Kansas, Harvard University, Boston College, and MIT (1998-2000).

Highlight Accomplishment: In the COX II project, I co-developed an efficient and rapid route into the exploration of the 4- and 5-positions of our lead pyridazinone series and broadened the spectrum of substituents that could be incorporated for investigation. This methodology was used throughout medchem and process.

Harvard University

Cambridge, MA

Graduate Research Assistant

January 1991 - October 1996

Research Advisor: Professor Elias J. Corey (1990 recipient of the Nobel Prize in Chemistry)

Thesis work focused on the demonstration of the generality of two important design features in Lewis acid, asymmetric, catalytic methodology, and on the discovery, development, and characterization of a novel chiral Lewis acid for applications in asymmetric catalysis. A wide variety of experimental techniques (spectroscopy, crystallography, *ab initio* calculations, etc.) have been used in these studies. The results have been used in the design of a new chiral Lewis acid that exhibits even higher selectivities in asymmetric catalysis than the parent system.

The Ohio State University

Columbus, OH

Undergraduate Research Assistant

June 1987 - August 1990

Research Advisor: Professor John S. Swenton

Thesis work focused on organoaluminum mediated conjugate additions of alkylolithium and Grignard reagents to quinone monoketals, and intramolecular, anodic carbon-carbon bond formation in oxidized phenol intermediates.

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Sample Collegiate Level Teaching Experience: courses taught at Franciscan University of Steubenville

CHM 431 - Advanced Organic Chemistry (1 sec)	spring 2015
CHM 434 - Chemistry Thesis (6 student)	fall 2014 and spring 2015
CHM 203 and CHM 204 - Organic Chemistry I and II lectures (2 sec)	fall 2014 and spring 2015
CHM 205 and CHM 206 - Organic Chemistry I and II laboratories (2.5 sec)	fall 2014 and spring 2015
CHM 437 - Special Problems in Chemistry (7 student)	fall 2014
CHM 400 - Medicinal Chemistry Internship, AbbVie, Chicago, IL (8 interns)	summer 2014
CHM 431 - Advanced Organic Chemistry (1 sec)	spring 2014
CHM 437 - Special Problems in Chemistry (3 student)	spring 2014
CHM 203 and CHM 204 - Organic Chemistry lecture (2 sec) and laboratory (2 sec)	fall 2013 and spring 2014
CHM 437 - Special Problems in Chemistry (3 student)	fall 2013
CHM 400 - Medicinal Chemistry Internship, AbbVie, Chicago, IL (8 interns)	summer 2013
CHM 431 - Advanced Organic Chemistry (1 sec)	spring 2013
CHM 434 - Chemistry Thesis (1 student)	spring 2013
CHM 203 and CHM 204 - Organic Chemistry lecture (2 sec) and laboratory (2 sec)	fall 2012 and spring 2013
CHM 437 - Special Problems in Chemistry (3 student)	fall 2012
CHM 400 - Medicinal Chemistry Internship, Abbott, Chicago, IL (7 interns)	summer 2012
CHM 431 - Advanced Organic Chemistry (2 sec)	spring 2012
CHM 434 - Chemistry Thesis (1 student)	spring 2012
CHM 203 and CHM 204 - Organic Chemistry lecture (2 sec) and laboratory (3 sec)	fall 2011 and spring 2012
CHM 437 - Special Problems in Chemistry (1 student)	fall 2011
CHM 111/110 - Introductory Chemistry Laboratory (1 sec)	fall 2011
CHM 400 - Medicinal Chemistry Internship, Abbott, Chicago, IL (3 interns)	summer 2011
CHM 431 - Advanced Organic Chemistry (2 sec)	spring 2011
CHM 434 - Chemistry Thesis (1 student)	spring 2011
CHM 203 and CHM 204 - Organic Chemistry lecture (2 sec) and laboratory (4 sec)	fall 2010 and spring 2011
CHM 437 - Special Problems in Chemistry (1 student)	fall 2010
CHM 111/110 - Introductory Chemistry Laboratory (2 sec)	fall 2010
CHM 431 - Advanced Organic Chemistry (1 sec)	spring 2010
CHM 203 and CHM 204 - Organic Chemistry lecture (2 sec) and laboratory (4 sec)	fall 2009 and spring 2010
CHM 111/110 - Introductory Chemistry Laboratory (2 sec)	fall 2009

Joint Scientific Posters with Undergraduates (*undergraduates indicated with an asterisk)

Duquesne Summer REU Internship Symposium (2018, 1 direct co-intern)

*Reece Hoyer (Franciscan University, lead author): Epibatidine 7-Azabicyclo[2.2.1]heptane Core Synthesis by 3+2 Cycloaddition and Enantioselective Proposal, Reece Hoyer¹, Mira Kanzelberger¹, Aaron Bloomfield², Jeffrey Rohde¹, Jeffrey Evanseck², ¹Franciscan University of Steubenville, ²Duquesne University Center for Computational Sciences: Department of Chemistry and Biochemistry

Duquesne Summer REU Internship Symposium (2017, 2 direct co-interns)

*Mary Burton (Franciscan University, lead author): Conformation, Stabilization, and Decarboxylation of L-Dopa, Mary E. Burton¹, Jeffrey J. Rohde¹, Jeffrey D. Evanseck², ¹Franciscan University of Steubenville, ²Duquesne University Center for Computational Sciences: Department of Chemistry and Biochemistry

Poster Presented twice: (1) May 15, 2017: 4th Annual Phi Lambda Upsilon Graduate Student Research Symposium, Pittsburgh, PA; (2) April 26--28, 2017: PQI2017: Quantum Revolutions, Pittsburgh, PA.

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*Brandon Vernier (Franciscan University undergraduate graduate and current Duquesne University PhD graduate student, lead author): **Steric and electrostatic crystal packing forces upon the formyl hydrogen bond**, Vernier, Brandon T.¹; Ahmed, Ayan N.¹; Rohde, Jeffrey J.²; Evanseck, Jeffrey D.¹, ¹Franciscan University of Steubenville, ²Duquesne University Center for Computational Sciences: Department of Chemistry and Biochemistry

Duquesne Summer REU Internship Symposium (2016, 2 direct co-interns)

*Ahmed, Ayan (Duquesne University, lead author): **Structure and novel binding of Trost dinuclear zinc semi-crown ligands**, Ahmed, Ayan¹; Vernier, Brandon¹; Rohde, Jeffrey²; Evanseck, Jeffrey D.¹, ¹Duquesne University Center for Computational Sciences, Department of Chemistry and Biochemistry; ²Franciscan University of Steubenville

*Cosme-Silva, Jan-Louis (University of Puerto Rico, Rio Piedras Campus, lead author): **Evidence for formyl and α -hydrogen bonding in asymmetric organic reactions from single crystal X-ray diffraction and density functional theory**, *Jan-Louis Cosme-Silva¹, Brandon T. Vernier, Michael A. Novak, Jeffrey J. Rohde², Mira Kanzelberger², and Jeffrey D. Evanseck, Duquesne University Center for Computational Sciences, Department of Chemistry and Biochemistry; ¹University of Puerto Rico, Rio Piedras Campus; ²Franciscan University of Steubenville

AbbVie Summer Internship (2016, 10 total interns, 1 direct report) - proprietary, poster session

*Shah, Mira (University of Miami) lead author: **Initial Exploration of the Structure-Activity Relationship of a Novel Pyrazolopyrimidine Series with Activity Against *Trypanosoma cruzi*** *Mira Shah¹, Thomas von Geldern³, Jeffrey Rohde², An Matheussen⁴, Kennan Marsh³, Dale Kempf³ ¹University of Miami, Miami, Florida; ²Franciscan University, Steubenville, Ohio; ³AbbVie Inc., North Chicago, Illinois; ⁴University of Antwerp, Antwerp, Belgium

American Chemical Society, National Meeting, Denver, CO (March 2015)

American Chemical Society, Duquesne University Spring Symposium, Pittsburgh, PA (April, 2015)

*Ahmed, Ayan (Duquesne University, lead author): Group 13 chiral Lewis acid stereoselective control of enal Diels-Alder reactions. *Ahmed, Ayan; *Kelly, Allison; Vernier, Brandon; Rohde, Jeffrey J.; Evanseck, Jeffrey D. Center for Computational Sciences and Department of Chemistry and Biochemistry, Duquesne University and Franciscan University of Steubenville

American Chemical Society, Central Regional Meeting (CERM) Pittsburgh, PA (2015)

Vernier, Brandon (Duquesne University, graduate student, lead author): Transition State Stabilization of Substituted Enals in Diels-Alder Reactions by Group 13 Chiral Lewis Acids. Brandon T. Vernier, *Ayan N. Ahmed, *Allison Kelly, Jeffrey J. Rohde, and Jeffrey D. Evanseck, Center for Computational Sciences and Department of Chemistry and Biochemistry, Duquesne University and Franciscan University of Steubenville

Duquesne Summer REU Internship Symposium (2015, 2 direct co-interns)

*Ahmed, Ayan (Duquesne University, lead author): Asymmetric catalysis of aqueous asymmetric Mukaiyama aldol reactions by dinuclear zinc semi-crown ligands, *Ayan N. Ahmed, Brandon Vernier, Jeffrey Rohde¹ and Jeffrey D. Evanseck, Duquesne University Center for Computational Sciences Department of Chemistry and Biochemistry; ¹Franciscan University of Steubenville

*Baucom, Kierstin (Franciscan University of Steubenville, lead author): Solvation Effects in the Bimolecular Diels Alder Cycloaddition of Cyclopentadiene, *Baucom, Kierstin; *Kelly, Allison; Vernier, Brandon; *Ahmed, Ayan; Rohde, Jeffrey; Evanseck, Jeffrey, Center for Computational Sciences and Department of Chemistry and Biochemistry, Duquesne University and Franciscan University of Steubenville

AbbVie Summer Internship (2015, 6 total interns, 2 direct report) - proprietary, poster session

*Rauwolf, Tyler (Illinois Wesleyan University) and Crapps, Joshua (University of Dallas), lead authors: Initial Exploration of the Structure-Activity Relationship (SAR) of a Novel Piperidine (PIP) Series with Activity Against *Trypanosoma cruzi*, *Tyler Rauwolf¹, *Joshua Crapps², Fatima Basha³, Jeffrey Rohde⁴, Manu De Rycker⁵, David Gray⁵, Jean-Robert Loset⁶, Marcel Kaiser⁷, Dale Kempf³ ¹Illinois Wesleyan University, Bloomington, Illinois; ²University of Dallas, Irving, Texas; ³AbbVie, Inc. North Chicago, Illinois; ⁴Franciscan University, Steubenville, Ohio; ⁵University of Dundee, Dundee, Scotland; ⁶Drugs for Neglected Diseases Initiative, Geneva, Switzerland; ⁷Swiss Tropical and Public Health Institute, Basel, Switzerland

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Poster Presented at Multiple Venues [2014 - 2013]; (1) Gordon Research Conference on Heterocyclic Compounds from June 15-20, 2014 in Newport, Rhode Island by Jeffrey Rohde; (2) 28th Annual ACS Student Member Symposium, Duquesne University on April 12, 2014 by *Matthew Stewart; (3) 2nd Annual Global Health Symposium, Rush Medical College, on January 31, 2014 in Chicago, Illinois by Antony Gayed (Medical Student), and, (4) 27th National Conference on Undergraduate Research (NCUR) from April 11-13, 2013 in La Crosse, Wisconsin by *Mariette van der Wegen.

*Antony Gayed¹, *Joseph Krilich¹, *Michael McLaughlin¹, *Nicole Scheidler¹, *Matthew Stewart¹, *Mariette van der Wegen¹, *Anna Williams¹, Louis Maes², Jean-Robert Ioset³, Augustine Osuma⁴, Brian Brown⁴, Dale Kempf⁴, Jeffrey Rohde,¹ Preparation of Acyl Hydrazone Analogs for Anti-Parasitic Activity in Trypanosoma cruzi with a Focus on Collaborative, Humanitarian, and Educational Benefits ¹Franciscan University of Steubenville; ²University of Antwerp; ³Drugs for Neglected Disease initiative, Geneva, Switzerland; ⁴AbbVie, North Chicago, Illinois 60064.

American Chemical Society, Central Regional Meeting (CERM) Pittsburgh, PA (2014)

*Ahmed, Ayan (Duquesne University, lead author): Influence of Competitive, Attractive, Ground State, Complex Interactions on the Stereochemical Outcome of Diels-Alder Reactions of Enals Catalyzed by Group 13 Chiral Lewis Acids, *A. Ahmed (lead author), *A. Kelly, B. Vernier, J. J. Rohde, J. D. Evanseck

*Kelly, Allison (Franciscan University of Steubenville, lead author): Solvation Effects in Bimolecular Diels Alder Cycloaddition of Cyclopentadiene: A Tool for Benchmarking Expected Errors in More Sophisticated Diels Alder Reactions. *A. Kelly (lead author), B. Vernier, *A. Ahmed, J. Rohde, J. D. Evanseck

*Vernier, Brandon (Duquesne University, graduate student, lead author): Transition State Stabilization of Substituted Enals in Diels-Alder Reactions by Group 13 Chiral Lewis Acids. B. T. Vernier (lead author, graduate student), *A. N. Ahmed, *A. Kelly, J. J. Rohde, J. D. Evanseck

Duquesne Summer REU Internship Symposium (2014, 3 direct co-interns)

*Ahmed, Ayan (Duquesne University, lead author): Influence of Competitive, Attractive, Ground State, Complex Interactions on the Stereochemical Outcome of Diels-Alder Reactions of Enals Catalyzed by Group 13 Chiral Lewis Acids, *Ahmed, Ayan; Evanseck, Jeffrey D.; *Kelly, Allison; Rohde, Jeffrey; Vernier, Brandon, Center for Computational Sciences; Department of Chemistry and Biochemistry Duquesne University; Franciscan University of Steubenville

*Kelly, Allison (Franciscan University of Steubenville, lead author): Solvation Effects in Bimolecular Diels Alder Cycloaddition of Cyclopentadiene: A Tool for Benchmarking Expected Errors in More Sophisticated Diels Alder Reactions, *Kelly, Allison; *Ahmed, Ayan; Evanseck, Jeffrey D.; Rohde, Jeffrey; Vernier, Brandon, Center for Computational Sciences and Department of Chemistry and Biochemistry, Duquesne University; Franciscan University of Steubenville

AbbVie Summer Internship (2014, 8 total interns, 1 direct report) - proprietary, poster session

*Diaz, Andres (Franciscan University of Steubenville, lead author): Regioisomeric Confirmation and Initial Exploration of the Structure-Activity Relationship of a Novel Pyrazolopyrimidine (PZP) Series with Activity Against Mycobacterium tuberculosis, *Andy Diaz, Fatima Basha, Rick Yarbrough, Rodger Henry, Aaron Korkegian, Tanya Parish, Jeffrey Rohde, Dale Kempf

AbbVie Summer Internship (2013, 8 total interns, 3 direct reports) - proprietary, poster session

*Flach, Jessica (Illinois Wesleyan University, lead author): Initial SAR Studies of the Western Aryl Moiety and Thiazole Core of a Novel Screening Lead, A-738159.0, Active Against Tuberculosis, *Jessica Flach, *Michael McLaughlin, Yulia Ovechkina, Aaron Korkegian, Tanya Parish, Kathy Sarris, Justin Dietrich, Frank Wagenaar, Brian Brown, Richard Clark, Eric Voight, Milan Bruncko, Robert Schmitt, James Metz, Augustine Osuma, Jeffrey Rohde, Dale Kempf

*Han, Isabel (Carleton College, lead author): Preparation of N-Alkyl 4-PhenylPiperidines via Reductive Amination as a Novel Treatment for Tuberculosis, *Isabel Han, *Michael McLaughlin, Frank Wagenaar, Yulia Ovechkina, Aaron Korkegian, Tanya Parish, Robert Schmitt, Brian Brown, Richard Clark, Eric Voight, Milan Bruncko, Augustine Osuma, Jeffrey Rohde, Dale Kempf

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*McLaughlin, Michael (Franciscan University of Steubenville, lead author): Design, Synthesis, and Optimization of the Eastern Amino-Substituent of a Novel Series of Thiazole Analogs, Targeted Against Mycobacterium tuberculosis, *Michael McLaughlin, Katerina Sarris, Justin Dietrich, Frank Wagenaar, Aaron Korkegian, Yulia Ovechkina, Tanya Parrish, Robert Schmitt, Brian Brown, Richard Clark, Eric Voight, Milan Bruncko, Augustine Osuma, Jeffrey Rohde, Dale Kempf

AbbVie Summer Internship (2012, 7 total interns, 7 direct reports) - proprietary, poster session

*Krilich, Joseph (Franciscan University of Steubenville, lead author): Intern Jumpstart Manual - Improving the Efficiency of the On-boarding Process, *Joseph Krilich, *Matthew Stewart, *Kelsey Kettelhut, *Kwabena Nimarko, *Anna Williams, *Michael McLaughlin, David Grampovnik, Jeffrey Rohde, Dale Kempf

*Maust, Joel (Goshen College, co-lead author) & *Williams, Anna (Franciscan University of Steubenville, co-lead author): Preparation of a Novel Series of Pyrimidine Analogs for Tuberculosis Designed to Improve Aqueous Solubility, *Joel Maust, *Anna Williams, *Kelsey Kettlehut, *Michael McLaughlin, *Joseph Krilich, *Kwabena Nimarko, *Matthew Stewart, Augustine Osuma, Scott Franzblau, Baojie Wan, Sanghyun Cho, Jeffrey Rohde, Dale Kempf

*McLaughlin, Michael (Franciscan University of Steubenville, co-lead author) & *Kettlehut, Kelsey (Beloit College, co-lead author): Methodology to Optimize the Synthesis of a Novel Series of Pyrimidines for Tuberculosis, *Kelsey Kettelhut, *Michael McLaughlin, *Annie Williams, *Joel Maust, *Kwabena Nimarko, *Matt Stewart, Scott Franzblau, Baojie Wan, Sanghyun Cho, Jeffrey Rohde, Augustine Osuma, Dale Kempf

*Nimarko, Kwabena (University of Maryland, lead author): Synthesis of a Series of Oxazolidinone Sulfonamides as a Novel Treatment for Tuberculosis, *Kwabena Nimarko, *Matthew Stewart, David Grampovnik, Scott Franzblau, Sanghyun Cho, Baojie Wan, Khisi Mdulu, Zenkun Ma, Christopher Cooper, Robert Schmitt, Eric Voight, Jeffrey Rohde, Dale Kempf

*Stewart, Matthew (Franciscan University of Steubenville, lead author): Synthesis of Oxazolidinone Amides and Amines in Pursuit of Novel Treatments for Tuberculosis, *Matthew Stewart, *Joseph Krilich, Dave Grampovnik, Scott Franzblau, Sanghyun Cho, Baojie Wan, Khisi Mdulu, Zenkun Ma, Christopher Cooper, Robert Schmitt, Jeffrey Rohde, Eric Voight, Dale Kempf

AbbVie Summer Internship (2011, 3 total interns, 3 direct reports) - proprietary, poster session

*Cundiff, Nicholas (Franciscan University of Steubenville, lead author): Synthesis of Pyrimidines as Novel Treatments for Tuberculosis, *Nicholas Cundiff, Augustine Osuma, Sanghyun Cho, Jeffrey Rohde, Scott Franzblau, Brian Brown, Robert Schmitt, Khisi Mdulu, Zenkun Ma, Christopher Cooper, Rick Clark, Dale Kempf

*Krilich, Joseph (Franciscan University of Steubenville, lead author): Synthesis of Macrolides as Novel Treatments for Chagas Disease, *Joseph Krilich, *Nicholas Cundiff, *Nicholas Skiviat, Dave Grampovnik, Yu-Ming Pu, Alan Christesen, Louis Maes, Junli Ma, Tom von Geldern, Jeffrey Rohde, Brian Brown, Robert Schmitt, Yi-Yin Ku, Richard Clark, Kennen Marsh, Shing Chang, Dale Kempf

*Skiviat, Nicholas (John Carroll University, lead author): Synthesis of macrolide analogs for novel treatment of Visceral Leishmaniasis, *Nicholas Skiviat, Richard Clark, Dave Gramprovnick, Tom von Geldern, Louis Maes, Jeffrey Rohde, Dale Kempf

Publications

Acute Inhibition of 11 β -Hydroxysteroid Dehydrogenase Type-1 Improves Memory in Rodent Models of Cognition. Eric G. Mohler, Kaitlin E. Browman, Victoria A. Roderwald, Elizabeth A. Cronin, Stella Markosyan, R. Scott Bitner, Marina I. Strakhova, Karla U. Drescher, Wilfried Hornberger, Jeffrey J. Rohde, Michael E. Brune, Peer B. Jacobson and Lynne E. Rueter, *Journal of Neuroscience*, **2011**, 31(14), 5406-5413.

Adamantane sulfone and sulfonamide 11- β -HSD1 Inhibitors. Sorensen, B.; Winn, M.; Rohde, J.; Shuai, Q.; Wang, J.; Fung, S.; Monzon, K.; Chiou, W.; Stolarik, D.; Imade, H.; Pan, L.; Deng, X.; Chovan, L.; Longenecker, K.; Judge, R.; Qin, W.; Brune, M.; Camp, H.; Frevert, E. U.; Jacobson, P.; Link, J. T. *Biorg. Med. Chem. Lett.* **2007**, 17, 527-532.

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Discovery and Metabolic Stabilization of Potent and Selective 2-Amino-N-(adamant-2-yl) Acetamide 11 β -Hydroxysteroid Dehydrogenase Type 1 Inhibitors. Rohde, J. J.; Pliushchev, M. A.; Sorensen, B. K.; Wodka, D.; Shuai, Q.; Wang, J.; Fung, S.; Monzon, K. M.; Chiou, W. J.; Pan, L.; Deng, X.; Chovan, L. E.; Ramaiya, A.; Mullally, M.; Henry, R. F.; Stolarik, D. F.; Imade, H. M.; Marsh, K. C.; Beno, D. W. A.; Fey, T. A.; Droz, B. A.; Brune, M. E.; Camp, H. S.; Sham, H. L.; Frevert, E. U.; Jacobson, P. B.; Link, J. T. *J. Med. Chem.* **2007**, *50*, 149-164.

Xanthine mimetics as potent dipeptidyl peptidase IV inhibitors. Kurukulasuriya, R.; Rohde, J. J.; Szczepankiewicz, B. G.; Basha, F.; Lai, C.; Jae, H.-S.; Winn, M.; Stewart, K. D.; Longenecker, K. L.; Lubben, T. W.; Ballaron, S. J.; Sham, H. L.; von Geldern, T. W. *Biorg. Med. Chem. Lett.* **2006**, *16*, 6226-6230.

Adamantane 11- β -HSD-1 inhibitors: Application of an isocyanide multicomponent reaction. Sorensen, B.; Rohde, J.; Wang, J.; Fung, S.; Monzon, K.; Chiou, W.; Pan, L.; Deng, X.; Stolarik, D.; Frevert, E. U.; Jacobson, P.; Link, J. T. *Biorg. Med. Chem. Lett.* **2006**, *16*, 5958-5962.

Discovery of 3-Methyl-N-(1-oxy-3',4',5',6'-tetrahydro-2'H-[2,4'-bipyridine]-1'-ylmethyl)benzamide (ABT-670), an Orally Bioavailable Dopamine D4 Agonist for the Treatment of Erectile Dysfunction. Patel, M. V.; Kolasa, T.; Mortell, K.; Matulenko, M. A.; Hakeem, A. A.; Rohde, J. J.; Nelson, S. L.; Cowart, M. D.; Nakane, M.; Miller, L. N.; Uchic, M. E.; Terranova, M. A.; El-Kouhen, O. F.; Donnelly-Roberts, D. L.; Namovic, M. T.; Hollingsworth, P. R.; Chang, R.; Martino, B. R.; Wetter, J. M.; Marsh, K. C.; Martin, R.; Darbyshire, J. F.; Gintant, G.; Hsieh, G. C.; Moreland, R. B.; Sullivan, J. P.; Brioni, J. D.; Stewart, A. O. *J. Med. Chem.* **2006**, *49*, 7450-7465.

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Presentations

Creative Strategies to Establish & Fund Excellent Undergraduate Research at Small Universities, Chemical Sciences at the Interface of Education at the University of Michigan (CSIEUM) Lecture Series, Department of Chemistry, University of Michigan, Ann Arbor, Michigan, March, 15, 2019. (coordinated by Allison Kelly, FUS alum)

A New Opportunity for Engagement of Undergraduates in Organic Chemistry Labs and Research: Redirecting the Focus and the Waste Stream to Help Advance Global Neglected Disease Efforts, Department of Chemistry, West Virginia University, Morgantown, West Virginia, November 1, 2017. (coordinated by Asst. Prof. Blake Mertz)

Making Labs Matter - *A Potential WIN⁴*, 2015 Spring NIH/NCATS Presentation, NIH/NCATS Complex, Rockville, MD, February 23, 2015 (coordinated by Ajit Jadhav, Chief NCGC Branch, NIH/NCATS).

Joint Presentation on the Collaborative FUS - FIWH - Abbott/AbbVie, Summer, Undergraduate, Neglected Disease, Internship Program and New Research Initiatives in the FUS Sciences, Co-presenter Mary Grace Russell (FUS senior for student perspective), Kiwanis Club of Steubenville, spring 2015, YWCA, Steubenville, OH (coordinated by Anita Jackson).

Redirecting the Focus and the Waste Stream to Help Advance Global Neglected Disease Efforts, 2014 Fall Seminar Series, Duquesne University, Pittsburgh, PA, October 10, 2014 (coordinated by Prof. Jeffrey D. Evanseck).

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Preparation of Acyl Hydrazone Analogs for Anti-Parasitic Activity in *Trypanosoma cruzi* with a Focus on Collaborative, Humanitarian, and Educational Benefits, 2014 28th Annual ACS Student Member Symposium, Duquesne University, Pittsburgh, PA, April 12, 2014 (coordinated by Prof. Jeffrey D. Evanseck).

Presentation on the Collaborative FUS - FIWH - Abbott/AbbVie, Summer, Undergraduate, Neglected Disease, Internship Program and New Research Initiatives in the FUS Sciences, Co-presenter Matthew Stewart (FUS junior for student perspective), Rotary Club of Steubenville, spring 2013, YWCA, Steubenville, OH (coordinated by Fr. Richard Davis).

Joint Presentation on the Collaborative FUS - FIWH - Abbott/AbbVie, Summer, Undergraduate, Neglected Disease, Internship Program and New Research Initiatives in the FUS Sciences, Co-presenter Michael McLaughlin (FUS sophomore for student perspective), Kiwanis Club of Steubenville, fall 2012, YWCA, Steubenville, OH (coordinated by Anita Jackson).

FIWH and Initial Research Plans for the Advancement of FUS and Local Students Presentation, Kiwanis Club of Steubenville, spring 2011, YWCA, Steubenville, OH (coordinated by Anita Jackson).

Medicinal Chemistry of a Nonpeptidyl DPP-IV Inhibitor Series. Rohde, Jeffrey, J. Younger Chemists Committee of the American Chemical Society, Illinois Heartland Local Section, 2005 YYC Speaker, Illinois State University, September 2005.

The Design, Development, and Characterization of a Novel, Chiral Lewis Acid / Asymmetric Catalyst. Corey, Elias J.; Rohde, Jeffrey J. Eli Lilly Pre-Doctoral Fellowship Symposium. Lilly Corporate Center; Indianapolis, Indiana; August 1994.

Awards / Honors

GRACE 2019 Faculty Mentor Award, Franciscan University of Steubenville, Steubenville, OH; Award for Encouraging Women into the Chemical Sciences 2015, Greater Pittsburgh Women Chemists Committee (WCC), Pittsburgh Section of the American Chemical Society; Excellence in Service Award 2013-2014, Franciscan University of Steubenville, Steubenville, OH.

GPRD Discovery Scientific Innovation Award Nomination (2007); GPRD Discovery Leadership Award (2006); GPRD Discovery Leadership Award Nomination (2005); GPRD Discovery Scientific Innovation Award Nomination (2004); Eli Lilly Pre-Doctoral Research Fellowship (1993); Eli Lilly Undergraduate Summer Research Fellowship (1989); The Ohio State University Arts and Sciences Award for Excellence in Scholarship (1989); Scholastic All-American (1988); All-Big Ten Academic Team (1988); The Ohio State University Undergraduate Research Scholarship (1988); The Ohio State University Varsity Soccer Award for Academic Achievement (1987).

Personal / Community

Habitat for Humanity Volunteer (1997, 98); Chicago Midtown Tutoring Program (1997, 98); Chicago Midtown Summer Reading Enrichment Program (1997, 98); Ten Thousand Villages Volunteer (1997-2009); St. Nicholas

Church, Evanston, IL High School Youth Group Moderator (1998-2003); St. Athanasius Church, Evanston, IL High School Youth Group Moderator, Lifeteen Model (2002-2004); Pittsburgh Half-Marathon (2013); Chicago Marathon (1998-2001, 2003); Boston Marathon (1992, 93, 98), New York City Marathon (1999), Marine Corp Marathon (2002), Big Sur Marathon (2003), Pittsburgh Marathon (2011, 2013), Pittsburgh Half-Marathon (2014); Ironman Lake Placid (2003), Ironman Wisconsin (2004); Jefferson County Kiwanis Youth Soccer Club (JKYSC) Volunteer Travel Soccer Coach (2011 - present); 1-2 days/month Volunteer Chemistry Lab Assistant at Northridge Preparatory School (Niles, IL, 2008, 2009, self initiated and designed); Evanston AYSO Volunteer Youth Soccer Coach (2008-2009); Illinois Innovation Talent Project, Abbott Laboratories-Niles West High School, Lead Scientific Volunteer from Abbott Laboratories (2008-2009, Pilot Program)

Franciscan Intercollegiate Soccer Teams, Men & Women, volunteer fitness coach (fall 2010); Jefferson Kiwanis Youth Soccer Club (JKYSC) Assistant Coach (2011-2016); Faculty advisor for the Franciscan Triathlon Club (2012-2015); Reviewer for several journals: Journal of Medicinal Chemistry, Bioorganic Medicinal Chemistry Letters, and, Public Library of Science, Neglected Tropical Diseases (2013 - 2017); Bishop John King Mussio Elementary School 5th Grade Annual Scientific Guest Lecturer, Neglected Worm Diseases, Steubenville, OH (2014-2018); Troop 401, Boy Scouts of America, Registered Parent Volunteer (2014-2019), Catholic Central High School Varsity Soccer Team, Assistant Coach (fall 2017, fall 2018); Catholic Central High School Varsity Cross Country Team, Assistant (fall 2018); Catholic Central Junior High School Track Team, Assistant Coach (spring 2018, spring 2019)

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