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Education
1997 Ph.D. (Chemistry), Harvard University
1990 B.S. (Chemistry), University of California, Berkeley

Research and Professional Experience
2019 – 2022 Associate Provost, MIT
2015 – 2019 Department Head, MIT, Department of Chemistry
2015 – present Robert R. Taylor Professor of Chemistry, MIT Department of Chemistry
2009 – present Professor, MIT, Department of Chemistry
2006 – 2009 Associate Professor, MIT, Department of Chemistry
2004 – 2006 Associate Professor (without tenure), MIT, Department of Chemistry
2002 – 2005 Paul M. Cook Career Development Chair
1999 – 2004 Assistant Professor, MIT, Department of Chemistry
1997 – 1999 Postdoctoral Fellow, Harvard University (Prof. Eric N. Jacobsen)
1991 – 1997 Graduate Student, Harvard University (Prof. Stuart L. Schreiber)
1990 – 1991 Fulbright Fellow, ETH Zürich, Switzerland (Prof. Steven A. Benner)
1988 – 1990 Undergraduate Research, UC Berkeley (Prof. Henry Rapoport)
1988 Summer Research Assistant, Eastman Kodak, Rochester, NY
1987 Co-op Research Assistant, ICI Americas, Richmond, CA

Honors, Awards, and Professional Activities
2018 Change Maker Award, MIT Title IX
2016 FP - Global Thinker of 2016
2015 – 2018 Chemical Reviews, Associate Editor
2014 – present Co-Founder, Chairman of the Board, and Scientific Advisor, Snapdragon Chemistry, Inc.
2014 Council of Chemical Research Collaboration Award
2013 Teaching Prize for Undergraduate Education, MIT School of Science
2012 – present Fellow of the Royal Society of Chemistry
2012 Royal Society of Chemistry Merck Award
2011 Arthur C. Cope Scholar Award, American Chemical Society
2011 – present Journal of Flow Chemistry, Editorial Board
2011 – present Advanced Synthesis and Catalysis, Academic Advisory Board
2008 – 2010 Petroleum Research Fund Advisory Board
2006 JSPS Invitation Fellowship
2004 Sloan Research Fellow
2004 GlaxoSmithKline Scholar Award
2003 Amgen Young Investigator Award
2002 Paul M. Cook Career Development Chair
2002 Boehringer Ingelheim New Investigator Award
2001 National Science Foundation CAREER Award
2000 3M Innovation Award
1997 – 1999 Postdoctoral Fellow, Cancer Research Fund, Damon Runyon-Walter Winchell Foundation
1991 – 1994 National Science Foundation Predoctoral Fellow
1991 – 1993 Certificate of Distinction in Teaching, Harvard University (3 times)
1990 – 1991 Fulbright Fellow (Swiss Universities Grant)
1990 Graduated with High Honors (Chemistry), UC Berkeley
1990 Saegebarth Prize (Undergraduate Research Excellence in Chemistry)
1990  Phi Beta Kappa
1988 – 1989  President's Undergraduate Fellow, UC Berkeley
1985 – 1989  Chancellor's Scholar, UC Berkeley
1986 – 1989  Eastman Kodak Scholar

Publications:

MIT

2022

“Bayesian Optimization of Computer-Proposed Multistep Synthetic Routes on an Automated Robotic Flow Platform” Anirudh M.K Nambiar, Christopher P. Breen, Travis Hart, Timothy Kulesza, Timothy F. Jamison, Klavs F. Jensen: ACS Central Science 2022; 8 (6), 825-836

“Synthesis of (±)-Emtricitabine and (±)-Lamivudine by Chlorotrimethylsilane-Sodium Iodide Promoted Vorbrüggen Glycosylation” Sarah Jane Mear, Long V. Nguyen, Ashley J. Rochford, Timothy F. Jamison: The Journal of Organic Chemistry 2022; 87 (5), 2887-2897

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2021

“Toward a Practical, Nonenzymatic Process for Investigational COVID-19 Antiviral Molnupiravir from Cytidine: Supply Centered Synthesis” Vijayagopal Gopalsamuthiram, Appasaheb L. Kadam, Jeffrey K. Noble, David R. Snead, Corshai L. Williams, Timothy F. Jamison, Chris Senanayake, Ajay K. Yadaw, Sarabindu Roy, Gopal Sirasani, B. Frank Gupton, Justina Burns, Daniel W. Cook, Rodger W. Stringham, Saeed Ahmad, and Rudy Krack: Organic Process Research & Development. 2021 25, 2679-2685.

"Continuous dimethyldioxirane generation for polymer epoxidation,” Grace P. Ahlqvist, Eileen G. Burke, Jeremiah A. Johnson, Timothy F. Jamison: Polymer Chem. 2021; 12, 489-493.

"A Concise Route to MK-4482 (EIDD-2801) from Cytidine: Part 2," Vijayagopal Gopalsamuthiram, Corshai L. Williams, Jeffrey K. Noble, Timothy F. Jamison, B. Frank Gupton, David R. Snead: Syn. Lett. 2021, 32, 326-328.

"Di-tert-butyl Phosphonate Route to the Antiviral Drug Tenofovir” Jule-Philipp Dietz, Dorota Ferenc, Timothy F. Jamison, B. Frank Gupton, Till Opatz: Org. Process Res. Dev. 2021, 25, 789-798.
"Progress Toward a Large-Scale Synthesis of Molnupiravir (MK-4482, EIDD-2801) from Cytidine" Grace P. Ahlqvist, Catherine McGeough, Chris Senanayake, Joseph D. Armstrong, Ajay K. Yadaw, Sarabindu Roy, Saeed Ahmad, David R. Snead, and Timothy F. Jamison: ACS Omega 2021, 6, 10396-10402.

"Ready, Set, Flow! Automated Continuous Synthesis and Optimization" Christopher P. Breen,* Anirudh M.K Nambar,* Timothy F. Jamison, Klavs F. Jensen: Trends in Chemistry 2021, 3, 373-386. *contributed equally

"Continuous flow strategies for using fluorinated greenhouse gases in fluoroalkylations" Wai Chung Fu, Preston M. MacQueen, Timothy F. Jamison: Chemical Society Reviews 2021, 50, 7378-7394.

"Design of dynamic trajectories for efficient and data-rich exploration of flow reaction design spaces" Federico Florit, Anirudh M.K Nambar, Christopher P. Breen, Timothy F. Jamison, Klavs F. Jensen: React. Chem. Eng. 2021, 6, 2306-2314. Advance Article.

"Towards a Practical, Non-enzymatic Process for Molnupiravir from Cytidine" Vijayagopal Gopalsamuthira, Appasaheb L. Kadam, Jeffrey K. Noble, David R. Snead, Corshai L. Williams, Timothy F. Jamison, Chris Senanayake, Ajay K. Yadaw, Sarabindu Roy, Gopal Sirasani, B. Frank Gupton, Justina Burns, Daniel W. Cook, Rodger W. Stringham, Saeed Ahmad, Rudy Krack: Organic Process Research & Development 2021 25, 2679-2685

"A Call for Increased Focus on Reproductive Health within Lab Safety Culture" Catherine McGeough,* Sarah Jane Mear,* Timothy F. Jamison: J. Am. Chem. Soc. 2021, 143, 12422-12427. *contributed equally

2020

"A concise route to MK-4482 (EIDD-2801) from cytidine" N. Vasudevan, Grace P. Ahlqvist, Catherine McGeough, Dinesh J. Paymode, Flavio S.P Cardoso, Tobias Lucas, Jule-Philipp Dietz, Till Opatz, Timothy F. Jamison, B. Frank Gupton, David R. Snead: Chem. Comm. 2020, 56, 13363-13364.

“On-Demand Generation and Use in Continuous Synthesis of the Ambiphilic Nitrogen Source Chloramine” Kelley E. Danahy, Evan D. Styduhar, Aria M. Fodness, Laurel M. Heckman, Timothy F. Jamison: Org. Lett. 2020, 22, 8392-8395.

"Deuteriodifluoromethylation and gem-Difluoroalkenylation of Aldehydes Using ClCF₂H in Continuous Flow" Wai Chung Fu, Timothy F. Jamison: Angew. Chem. Int. Ed. 2020, 59, 2-8.

"Total Synthesis of (+)-Sceptrin" Long V. Nguyen, Timothy F. Jamison: Org.Lett. 2020, 22 (17), 6698-6702
"A Scalable Membrane Pervaporation Approach for Continuous Flow Olefin Metathesis,"
Christopher P. Breen, Christine Parrish, Ning Shangguan, Sudip Majumdar, Hannah Murnen, Timothy F. Jamison, Matthew M. Bio: Org. Process Res. Dev. 2020,

"Continuous-Flow Synthesis of Tramadol from Cyclohexanone" Timothy M. Monos, Jonathan N. Jaworski, John C. Stephens, Timothy F. Jamison: Synlett. 2020, 31, A-G.

"Monolithic Silica Support for Immobilized Catalysis in Continuous Flow" M. Grace Russell, Cedrick Veryser, James F. Hunter, Rachel L. Beingessner, Timothy F. Jamison: Adv. Synth. Catal. 2020, 362, 314-319.

2019

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"Diazotization of S-Sulfonyl-cysteines" Sarah Jane Mear, Timothy F. Jamison: J. Org. Chem. 2019, 84, 15001-15007.

"Continuous Flow Synthesis of ACE Inhibitors From N-Substituted L-Alanine Derivatives" Christopher P. Breen and Timothy F. Jamison: Chem. Eur. J. 2019, 25, 14527-14531.

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Connor W. Coley, Dale A. Thomas, Justin A.M Lummiss, Jonathan N. Jaworski, Christopher P. Breen, Victor Schultz, Travis Hart, Joshua S. Fishman, Luke Rogers, Hanyu Gao, Robert W. Hicklin, Pieter P. Plehiers, Joshua Byington, John S. Piotti, William H. Green, A. John Hart, Timothy F. Jamison, Klavs F. Jensen: Science 2019, 365, eaax1566.
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Catherine McGeough, Alexandra E. Strom, Timothy F. Jamison: Org. Let 2019, 10, 3606-3609.
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M. Grace Russell and Timothy F. Jamison: Angew. Chem. Int. Ed. 2019, 58, 7678-7681.

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Aaron A. Bedermann, T. Andrew McTeague, Timothy F. Jamison: Org. Process. Res. Dev. 2019, 23, 278-282.

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“A Rapid Total Synthesis of Ciprofloxacin Hydrochloride in Continuous Flow” Hongkun Lin, Chunhui Dai, Timothy F. Jamison, Klavs F. Jensen: *Angew. Chem. Int. Ed.* 2017, 56, 8870-8873

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“Photoredox Activation of Carbon Dioxide for Amino Acid Synthesis in Continuous Flow” Hyowon Seo, Matthew H. Katcher, Timothy F. Jamison: *Nat. Chem.* 2017, 9, 453-356.

“Enhanced Reaction Efficiency in Continuous Flow” Peter D. Morse, Rachel L. Beingessner, Timothy F. Jamison: *Isr. J. Chem.* 2017, 57, 218-227.

2016

“Photoredox Activation of SF₆ for Fluorination” T. Andrew McTeague and Timothy F. Jamison: *Angew. Chem. Int. Ed.* 2016, 55, 15072-15075.

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