## **Timothy F. Jamison**

Associate Provost and Robert Robinson Taylor Professor of Chemistry
Massachusetts Institute of Technology

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1997 Ph.D. (Chemistry), Harvard University

1990 B.S. (Chemistry), University of California, Berkeley

# Research and Professional Experience

2019 – present	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

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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				
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2011 – present	Journal of Flow Chemistry,	Editorial Board	

2011 – present	Advanced St	unthesis and Ca	talvsis.	Academic Advisory	/ Board

2008 – 2010 Petroleum Research Fund Advisory Board
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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 F	Research Fund, Damon Ru	nyon-Walter Winchell Foundation
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1991 – 1994 National Science Foundation Predoctoral Fe	ellow	
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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

- Anirudh MK Nambiar, Christopher P Breen, Travis Hart, Timothy Kulesza, Timothy F Jamison, Klavs F Jensen "Bayesian Optimization of Computer-Proposed Multistep Synthetic Routes on an Automated Robotic Flow Platform" **2022** *8* (6), 825-836 DOI: 10.1021/acscentsci.2c00207
- Mear SJ, Nguyen LV, Rochford AJ, Jamison TF. "Synthesis of (±)-Emtricitabine and (±)-Lamivudine by Chlorotrimethylsilane-Sodium Iodide Promoted Vorbrüggen Glycosylation". *The Journal of Organic Chemistry* **2022**; 87 (5), 2887-2897 DOI: 10.1021/acs.joc.1c02772

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- Ahlqvist, G. P.; Burke, E. G.; Johnson, J. A.; Jamison, T. F. "Continuous dimethyldioxirane generation for polymer epoxidation," *Polymer Chem.* **2021**, *12*, 489-493. DOI: 10.1039/d0py01676d.
- Gopalsamuthiram, V.; Williams, C.; Noble, J.; Jamison, T. F.; Gupton, B. F.; Snead, D. R. "A Concise Route to MK-4482 (EIDD-2801) from Cytidine: Part 2," *Syn. Lett.* **2021**, *32*, 326-328. DOI: 10.1055/a-1275-2848.
- Dietz, J.-P.; Ferenc, D.; Jamison, T. F.; Gupton, B. F.; Opatz, T. "Di-tert-butyl Phosphonate Route to the Antiviral Drug Tenofovir," *Org. Process Res. Dev.* **2021**, *25*, 789-798. DOI: 10.1021/acs.oprd.0c00473.
- Ahlqvist, G. P.; McGeough, C. P.; Senanayake, C.; Armstrong, J. D.; Yadaw, A.; Roy, S.; Ahmad, S.; Snead, D. R.; and Jamison, T. F. "Progress Toward a Large-Scale Synthesis of Molnupiravir (MK-4482, EIDD-2801) from Cytidine," *ACS Omega* **2021**, *6*, 10396-10402. DOI: 10.1021/acsomega.1c00772.
- Breen, C. P.;\* Nambiar, A. M. K.;\* Jamison, T. F.; Jensen, K. F. "Ready, Set, Flow! Automated Continuous Synthesis and Optimization," *Trends in Chemistry* **2021**, *3*, 373-386. DOI: 10.1016/j.trechm.2021.02.005. \*contributed equally

- Fu, W. G.; MacQueen, P. M.; Jamison, T. F. "Continuous flow strategies for using fluorinated greenhouse gases in fluoroalkylations," *Chemical Society Reviews* **2021**, *50*, 7378-7394. DOI: 10.1039/d0cs00670j.
- Florit, F.; Nambiar, A. M. K.; Breen, C. P.; Jamison, T. F.; Jensen, K. F. "Design of dynamic trajectories for efficient and data-rich exploration of flow reaction design spaces," *React. Chem. Eng.* **2021**, 6, 2306-2314. Advance Article. DOI: 10.1039/D1RE00350J.
- Gopalsamuthiram, V.; Kadam, A. L.; Noble, J.; Snead, D.; Williams, C.; Jamison, T. F.; Senanayake, C.; Yadaw, A.; Roy, S.; Sirasani, G.; Gupton, B. F.; Burns, J.; Cook, D. W.; Stringham, R. W.; Ahmad, S.; Krack, R. "Towards a Practical, Non-enzymatic Process for Molnupiravir from Cytidine," *Organic Process Research & Development* **2021** *25*, 2679-2685, DOI: 10.1021/acs.oprd.1c00219
- McGeough, C. P.;\* Mear, S. J.;\* Jamison, T. F. "A Call for Increased Focus on Reproductive Health within Lab Safety Culture," *J. Am. Chem. Soc.* **2021**, *143*, 12422-12427. DOI: 10.1021/jacs.1c03725. \*contributed equally

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- Danahy, K. E.; Styduhar, E. D.; Fodness, A. M.; Heckman, L. M.; Jamison, T. F. "On-Demand Generation and Use in Continuous Synthesis of the Ambiphilic Nitrogen Source Chloramine," *Org. Lett.* **2020**, *22*, 8392-8395. DOI: 10.1021/acs.orglett.0c03021.
- Fu, W. C.; Jamison, T. F. "Deuteriodifluoromethylation and *gem*-Difluoroalkenylation of Aldehydes Using CICF<sub>2</sub>H in Continuous Flow," *Angew. Chem. Int. Ed.* **2020**, *59*, 2-8.
- Nguyen, L.; Jamison, T. F. "Total Synthesis of (<u>+</u>)-Sceptrin," *Org.Lett.* **2020**, https://pubs.acs.org/doi/10.1021/acs.orglett.0c01381
- Breen, C. P.; Parrish, C.; Shangguan, N.; Majumdar, S.; Muren, H.; Jamison, T. F.; Bio, M. M. "A Scalable Membrane Pervaporation Approach for Continuous Flow Olefin Metathesis," *Org. Process Res. Dev.* **2020**, https://pubs.acs.org/doi/abs/10.1021/acs.oprd.0c00061.
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- Seo, H. Jamison, T. F. "Catalytic Generation and Use of Ketyl Radical from Unactivated Aliphatic Carbonyl Compounds," *Org. Lett.* **2019**, *21*, 10159-10163.
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- Breen, C. P.; Jamison, T. F. "Continuous Flow Synthesis of ACE Inhibitors From *N*-Substituted L-Alanine Derivatives," *Chem. Eur. J.* **2019**, *25*, 14527-14531.
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