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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

“Diastereoselectivity is in the Details: Minor Changes Yield Major Improvements to the Synthesis of Bedaquiline” Sarah Jane Mear, Tobias Lucas, Grace P. Ahlqvist, Juliana M. S. Robey, Jule-Philipp Dietz, Pankaj V. Khairnar, Sanjay Maity, Corshai L. Williams, David R. Snead, Ryan C. Nelson, Till Opatz, Timothy F. Jamison: *Chemistry A European Journal* **2022**; 28(47)

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 Nambiar,* 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 Nambiar, 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 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, 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 CClF₂H 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

"Catalytic Generation and Use of Ketyl Radical from Unactivated Aliphatic Carbonyl

Compounds" Hyowon Seo and Timothy F. Jamison: *Org. Lett.* **2019**, 21, 10159-10163.

"Diaztotization 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.

"Synthesis of the EFG Framework of the Tamulamides A and B" Elizabeth H. Kelley and

Timothy F. Jamison: *Org. Lett.* **2019**, 21, 8027-8030.

"A Robotic Platform for Flow Synthesis of Organic Compounds Informed by AI Planning"

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.

- **MIT News:** Ham, B. "[Guided by AI, robotic platform automates molecule manufacture](http://news.mit.edu/2019/automate-molecule-production-ai-0808)" <http://news.mit.edu/2019/automate-molecule-production-ai-0808>
- **Technology Networks:** "[Pairing Prediction and Robotic Flow Synthesis](https://www.technologynetworks.com/drug-discovery/news/pairing-prediction-and-robotic-flow-synthesis-322689)" <https://www.technologynetworks.com/drug-discovery/news/pairing-prediction-and-robotic-flow-synthesis-322689>

"Modular Continuous Flow Synthesis of Imatinib and Analogues" Wai Chung Fu and Timothy

F. Jamison: *Org. Lett.* **2019**, 21, 6112-6116.

"Total Synthesis of the Marine Ladder Polyether Gymnocin B" Satapanawat Sittihan and

Timothy F. Jamison: *JAm.Chem. Soc.* **2019**, 141, 11239-11244.

"Ni-Catalyzed Cross-Electrophile Coupling for the Synthesis of Skipped Polyenes"

Catherine McGeough, Alexandra E. Strom, Timothy F. Jamison: *Org. Lett* **2019**, 10, 3606-3609.

“Seven-Step Continuous Flow Synthesis of Linezolid Without Intermediate Purification”

M. Grace Russell and Timothy F. Jamison: *Angew. Chem. Int. Ed.* **2019**, *58*, 7678-7681.

“Automated On-Demand Titration of Organometallic Reagents in Continuous Flow”

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

“A Graph Convolution Neural Network Model for the Prediction of Chemical Reactivity”

Connor W. Coley, Wengong Jin, Luke Rogers, Timothy F. Jamison, Tommi S. Jaakkola, William H. Green, Regina Barzilay, Klavs F. Jensen: *Chem.Sci.* **2019**, *10*, 370-377.

2018

“Using Carbon Dioxide as a Building Block in Continuous Flow Synthesis” Hyowon

Seo, Long V. Nguyen, Timothy F. Jamison: *Adv. Synth. Catal.* **2018**, *361*, 247-264.

“Reconfigurable System for Automated Optimization of Diverse Chemical Reactions”

Anne-Catherine Bédard, Andrea Adamo, Kosi C. Aroh, M. Grace Russell, Aaron A. Bedermann, Jeremy Torosian, Brian Yue, Klavs F. Jensen, Timothy F. Jamison. *Science* **2018**, *361*, 1220-1225.

- **C&E News:** Tien Nguyen. “[Chemists Hand Off Reaction Optimization to Automated Plug and Play Flow System](https://cen.acs.org/synthesis/Chemists-hand-off-reaction-optimization/96/i38)” <https://cen.acs.org/synthesis/Chemists-hand-off-reaction-optimization/96/i38>
- **MIT News:** Trafton, A. “[Plug-and-Play Technology Automates Chemical Synthesis](http://news.mit.edu/2018/technology-automates-chemical-synthesis-0920)” <http://news.mit.edu/2018/technology-automates-chemical-synthesis-0920>

“Bench-Stable Nickel Precatalysts with Heck-type Activation” Jessica M. Weber,

Ashley R. Longstreet, and Timothy F. Jamison: *Organometallics* **2018**, *37*, 2716-2722.

“Xenoprotein Engineering via Synthetic Libraries” Zachary P. Gates, Alexander A. Vinogradov,

Anthony J. Quartararo, Anupam Bandyopadhyay, Zi-Ning Choo, Ethan D. Evans, Kathryn H. Halloran, Alexander J. Mijalis, Surin K. Mong, Mark D. Simon, Eric A. Standley, Evan D. Styduhar, Sarah Z. Tasker, Faycal Touti, Jessica M. Weber, Jessica L. Wilson, Timothy F. Jamison, Bradley L. Pentelute: *Proc. Natl. Acad. Sci.* **2018**, *115*, E5298-E5306.

“Synthesis of Highly Substituted 2-Arylindoles via Copper-Catalyzed Coupling of

Isocyanides and Arylboronic Acids” Laurel M. Heckman, Zhi He, Timothy F. Jamison: *Org. Lett.* **2018**, *20*, 3263-3267.

“Continuous-Flow Chemistry in Undergraduate Education: Sustainable Conversion of Reclaimed Vegetable Oil into Biodiesel” Frank A. Leibfarth, M. Grace Russell, David

M. Langley, Hyowon Seo, Liam P. Kelly, Daniel W. Carney, Jason K. Sello, Timothy F. Jamison: *J. Chem. Educ.* **2018**, *95*, 1371-1375.

“7-Step Flow Synthesis of the HIV Integrase Inhibitor Dolutegravir,” Robert E. Ziegler, Bimbisar K. Desai, Jo-Ann Jee, B. Frank Gupton, Thomas D. Roper, Timothy F. Jamison; *Angew. Chem. Int. Ed.* **2018**, *57*, 7181-7185.

“Synthesis of the ABC Framework of Tamulamides A and B” Elizabeth H. Kelley and Timothy F. Jamison: *Bioorg. Med. Chem.* **2018**, *26*, 5327-5335.

“Bench-Stable N-Heterocyclic Carbene Nickel Precatalysts for C-C and C-N Bond-Forming Reactions” Felix Strieth-Kalthoff, Ashley R. Longstreet, Jessica M. Weber, Timothy F. Jamison: *ChemCatChem* **2018**, *10*, 2873-2877.

“Ni-Catalyzed Electrochemical Decarboxylative C-C couplings in Batch and Continuous Flow” Hui Li, Christopher P. Breen, Hyowon Seo, Timothy F. Jamison, Yuan-Qing Fang, Matthew M. Bio: *Org. Lett.* **2018**, *20*, 1338-1341.

“Advanced Continuous Flow Platform for On-Demand Pharmaceutical Manufacturing” Ping Zhang, Nopphon Weeranoppanant, Dale A. Thomas, Kohei Tahara, Torsten Stelzer, M. Grace Russell, Marcus O’Mahony, Allen S. Myerson, Hongkun Lin, Liam P. Kelly, Klavs F. Jensen, Timothy F. Jamison, Chunhui Dai, Yuqing Cui, Naomi Briggs, Rachel L. Beingessner, Andrea Adamo: *Chem. Eur. J.* **2018**, *24*, 2776-2784.

“Studies Toward Brevisulcenal F via Convergent Strategies for Marine Ladder Polyether Synthesis” Matthew H. Katcher and Timothy F. Jamison: *Tetrahedron* **2018**, *74*, 1111-1122.

2017

“The Assembly and Use of Continuous Flow Systems for Chemical Synthesis” Joshua Britton and Timothy F. Jamison: *Nat. Protoc.* **2017**, *12*, 2423-2446.

Selective N-Monomethylation of Primary Anilines with Dimethyl Carbonate in Continuous Flow,” Hyowon Seo, Anne-Catherine Bédard, Willie P. Chen, Robert W. Hicklin, Alexander Alabugin, Timothy F. Jamison: *Tetrahedron* **2017**, *74*, 3124-3128.

“Synthesis and Utilization of Nitroalkyne Equivalents in Batch and Continuous Flow” Peter D. Morse, Timothy F. Jamison: *Angew. Chem. Int. Ed.* **2017**, *56*, 13999-14002.

“Direct b-Selective Hydrocarboxylation of Styrenes with CO₂ Enabled by Continuous Flow Photoredox Catalysis” Hyowon Seo, Aofei Liu, Timothy F. Jamison: *J. Am. Chem. Soc.* **2017**, *139*, 13969-13972.

“Flow-IEG Enables Programmable Thermodynamic Properties in Sequence-Defined Unimolecular Macromolecules” Amanda C. Wicker, Frank A. Leibfarth, Timothy F. Jamison: *Polym. Chem.* **2017**, *8*, 5786-5794.

“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

“Redox Interfaces for Electrochemically Controlled Protein-Surface Interactions: Bioseparations and Heterogeneous Enzyme Catalysis” Xiao Su, Jonas Hübner, Monique J. Kauke, Luiza Dalbosco, Jonathan Thomas, Christopher C. Gonzalez, Eric Zhu, Matthias Franzreb, Timothy F. Jamison, T. Alan Hatton: *Chem. Mater.* **2017**, *29*, 5702-5712.

“Electrochemically Mediated Reduction of Nitrosamines by Hemin-Functionalized Redox Electrodes” Xiao Su, Lev Bromberg, Kai-Jher Tan, Timothy F. Jamison, Lokesh P. Padhye, T. Alan Hatton: *Environ. Sci. Technol. Lett.* **2017**, *4*, 161-167.

“Asymmetric Faradaic Systems for Selective Electrochemical Separations” Xiao Su, Kai-Jher Tan, Johannes Elbert, Christian Rüttiger, Markus Gallei, Timothy F. Jamison, T. Alan Hatton: *Energy Environ. Sci.* **2017**, *10*, 1272-1283.

“A Unified Continuous Flow Assembly-Line Synthesis of Highly Substituted Pryazoles and Pyrazolines” Joshua Britton and Timothy F. Jamison: *Angew. Chem. Int. Ed.* **2017**, *56*, 8823-8827.

“Towards More Efficient, Greener Syntheses Through Flow Chemistry” Justin A. M Lummiss, Peter D. Morse, Rachel L. Beingessner, Timothy F. Jamison: *Chem. Rec.* **2017**, *17*, 667-680.

“Minimizing E-Factor in the Continuous-Flow Synthesis of Diazepam and Atropine,” Anne-Catherine Bédard, Ashley R. Longstreet, Joshua Britton, Yuran Wang, Hideki Moriguchi, Robert W. Hicklin, William H. Green, Timothy F. Jamison *Bioorg. Med. Chem.* **2017**, *25*, 6233-6241.

“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.

“Anion-Selective Redox-Electrodes: Electrochemically-Mediated Separation with Heterogeneous Organometallic Interfaces” Xiao Su, Heather J. Kulik, Timothy F. Jamison, T. Alan Hatton: *Adv. Funct. Mater.* **2016**, *26*, 3394-3404.

“On-Demand Continuous Flow Production of Pharmaceuticals in a Compact,

Reconfigurable System” Andrea Adamo, Rachel L. Beingessner, Mohsen Behnam, Jie Chen, Timothy F. Jamison, Klavs F. Jensen, Jean-Christophe M. Monbaliu, Allen S. Myerson, Eve M. Revalor, David R. Snead, Torsten Stelzer, Nopphon Weeranoppanant, Shin Yee Wong, Ping Zhang. *Science* **2016**, 352, 61-67.

- **C&E News (Top Research of 2016):** Borman, S. “Mini Factory Made Drugs on Demand” <http://yearinreview.cenmag.org/top-research-of-2016/>
- **MIT Tech Review:** Orcutt, M. “The Drug-Making Process Is Slow and Wasteful – This Machine Could Fix That” <https://www.technologyreview.com/s/601142/the-drug-making-process-is-slow-and-wasteful-this-machine-could-fix-that/>
- **IEEE Spectrum:** Waltz, E. “The Dial-a-Drug-Machine” <http://spectrum.ieee.org/the-human-os/biomedical/devices/the-dialadrug-machine>
- **In the Pipeline:** Lowe, D. “Drugs on Demand” <http://blogs.sciencemag.org/pipeline/archives/2016/04/01/drugs-on-demand>
- **Nature:** “Drug Manufacture of Demand” <http://www.nature.com/nature/journal/v532/n7597/full/532008b.html>
- **C&E News:** Borman, S. “Mini Drug Factory Continuously Produces Doses” <http://cen.acs.org/articles/94/i14/Mini-drug-factory-continuously-produces.html>
- **Scientific American:** Roehr, B. “On-Demand Drug Production Is on the Horizon” <http://www.scientificamerican.com/article/on-demand-drug-production-is-on-the-horizon/>
- **MIT News:** Trafton, A. “Pharmacy on Demand” <http://news.mit.edu/2016/portable-pharmacy-on-demand-0331>
- **STAT:** Samuel, L. “This Fridge-Sized Machine Can Pop Out Meds for Allergies, Depression, and Anxiety” <https://www.statnews.com/2016/03/31/pharmacy-on-demand-drugs/>
- **Kurzweil Accelerating Intelligence:** “Creating Custom Drugs on a Portable Refrigerator-Size Device” <http://www.kurzweilai.net/creating-custom-drugs-on-a-portable-refrigerator-size-device>
- **UPI:** Norton, A. “Fridge-Sized Machine Makes Prescription Drugs on Demand” http://www.upi.com/Health_News/2016/03/31/Fridge-sized-machine-makes-prescription-drugs-on-demand/6171459447943/
- **HNGN:** Griffin, C. “New Pharmacy on Demand Device Creates Variety of Drugs” <http://www.hngn.com/articles/194258/20160401/new-pharmacy-demand-device-creates-variety-drugs.htm>
- **Daily Mail UK:** Liberatore, S. “Print Your Pills at Home: Researchers Reveal Fridge-Sized Machine that Can Make Prescription Drugs on Demand” <http://www.dailymail.co.uk/sciencetech/article-3519735/Print-pills-home-Researchers-reveal-fridge-sized-machine-make-prescription-drugs-demand.html>

- **Inquisitr:** Babcock, L. “Pharmacy on Demand: Will We Soon Be Able to Print Pills At Home?” <http://www.inquisitr.com/2956432/pharmacy-on-demand-will-we-soon-be-able-to-print-pills-at-home/>
- **The Pharmaceutical Journal: Oswald, K.** “Compact Machine Produces Drugs Demand” <http://www.pharmaceutical-journal.com/sign-in?rtn=news-and-analysis/news/compact-machine-produces-drugs-on-demand/20200961.article>
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2015

“Iterative Exponential Growth of Stereo- and Sequence-Controlled Polymers” Jonathan C. Barnes, Deborah J.C Ehrlich, Angela X. Gao, Frank A. Leibfarth, Yivan Jiang, Erica Zhou, Timothy F. Jamison, Jeremiah A. Johnson: *Nature Chem.* **2015**, *7*, 810-815.

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“Scalable Synthesis of Sequence-Defined, Unimolecular Macromolecules by Flow-IEG” Frank A. Leibfarth, Jeremiah A. Johnson, Timothy F. Jamison: *Proc. Natl. Acad. Sci. USA*, **2015**, *112*, 10617-10622.

“Continuous Flow Synthesis and Purification of Atropine with Sequential In-Line Separations of Structurally Similar Impurities” Chunhui Dai, David R. Snead, Ping Zhang, Timothy F. Jamison: *J. Flow Chem.* **2015**, *5*, 133-138.

“Rhodium-Catalyzed Endo-Selective Epoxide-Opening Cascades: Formal Synthesis of (–)-Brevisin” Kurt W. Armbrust, Matthew G. Beaver, Timothy F. Jamison: *J. Am. Chem. Soc.* **2015**, *137*, 6941-6946.

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“Nickel Catalysis: Synergy Between Method Development and Total Synthesis” Eric A. Standley, Sarah Z. Tasker, Kim L. Jensen, Timothy F. Jamison: *Acc. Chem. Res.* **2015**, *48*, 1503-1514.

“A General Strategy for the Synthesis of Enantiomerically Pure Azetidines and Aziridines through Nickel-Catalyzed Cross-Coupling” Kim L. Jensen, Dennis U Nielsen, Timothy F. Jamison: *Chem. Eur. J.* **2015**, *21*, 7379-7383.

“Selective Lewis Acid Catalyzed Assembly of Phosphonomethyl Ethers: Three-Step Synthesis of Tenofovir” Charles E. Ocampo, Doris Lee, Timothy F. Jamison: *Org. Lett.* **2015**, *17*, 820-823.

“Hydroxyl-Substituted Ladder Polyethers via Selective Tandem Epoxidation Cyclization Sequence” Lara C. Czabaniuk and Timothy F. Jamison: *Org. Lett.* **2015**, *17*, 774-777.

“A Three-Minute Synthesis and Purification of Ibuprofen: Pushing the Limits of Continuous Flow Processing” David R. Snead and Timothy F. Jamison: *Angew. Chem. Int. Ed.* **2015**, *54*, 983-987.

2014

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“Continuous Flow Total Synthesis of Rufinamide” Ping Zhang, M. Grace Russell, Timothy F. Jamison: *Org. Proc. Res.Dev.* **2014**, *18*, 1567-1570.

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