

COREY R. J. STEPHENSON, PHD

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BIOGRAPHY

Corey was born in Collingwood, Ontario, Canada and received his undergraduate degree from the University of Waterloo in 1998. He completed graduate studies under the direction of Professor Peter Wipf at the University of Pittsburgh before joining the lab of Professor Erick M. Carreira at ETH Zürich. In September 2007, he joined the Department of Chemistry at Boston University as an Assistant Professor and was granted tenure and promoted to Associate Professor in February, 2013. In July 2013, he joined the Department of Chemistry at the University of Michigan as Associate Professor of Chemistry. In September 2015, Corey was promoted to full Professor.

Since starting his independent career in 2007, Corey has been the recipient of the Thieme Synlett/Synthesis Journal Award (2009), the Boehringer–Ingelheim New Investigator Award (2010), an NSF CAREER award (2011-2016), the Alfred P. Sloan Research Fellowship (2011-2013), the Amgen Young Investigator Award (2011), the Novartis Early Career Award in Organic Chemistry (2012-2015), the Eli Lilly Grantee Award (2013-2015) the Camille Dreyfus Teacher-Scholar Award (2013), the EROS Best Reagent Award (2014), and the Pfizer Green Chemistry Award (2015).

EDUCATION

Ph.D., Organic Chemistry, 5/2005

University of Pittsburgh, Pittsburgh, PA, USA

B.Sc., Honours Applied Chemistry, 05/1998

University of Waterloo, Waterloo, ON, Canada

PROFESSIONAL POSITIONS

Professor of Chemistry, 09/2015 to present

University of Michigan, Ann Arbor, MI, USA

Schulich Visiting Professor, 06/2016

Israel Institute of Technology, Haifa, Israel

Associate Professor of Chemistry, 07/2013 to 08/2015

University of Michigan, Ann Arbor, MI, USA

Visiting Professor of Chemistry, 12/2014

University of Muenster, Germany

Associate Professor of Chemistry, 02/2013 to 06/2013

Boston University, Boston, MA, USA

Assistant Professor of Chemistry, 09/2007 to 02/2013

Boston University, Boston, MA, USA

Post Doctoral Fellow, 03/2005 to 08/2007

ETH-Zurich, Zurich, Switzerland

Advisor: Professor Erick M. Carreira

Graduate Research Assistant, 09/1998 to 02/2005

University of Pittsburgh, Pittsburgh, PA, USA

Advisor: Professor Peter Wipf

TEACHING EXPERIENCE	University of Michigan (CH 215, CH 420, CH 540, CH 543) Boston University (CH 204, CH 211, CH 212, CH 642)
AWARDS	Thomson-Reuters Highly Cited Researcher, 2015, 2016 Pfizer Green Chemistry Award, 2015 EROS Best Reagent Award, 2014 Camille Dreyfus Teacher-Scholar Award, 2013–2018 Eli Lilly Grantee Award, 2013–2015 Novartis Early Career Award in Organic Chemistry, 2012–2015 Amgen Young Investigator Award, 2011 Alfred P. Sloan Research Fellow, 2011–2013 NSF Career Award, 2011–2016 Boehringer–Ingelheim New Investigator Award, 2010 Thieme Synthesis/Synlett Journal Award, 2009 ACS Petroleum Research Foundation Type G Award, 2008
SIGNIFICANT SERVICE	NSF Chemistry panels (2011-2017) Ad-hoc reviewer (AAAS, DOE, NSF, PRF) Guest Editor of <i>Accounts of Chemical Research</i> Special Issue “Photoredox catalysis in organic synthesis” (with Prof. Tehshik Yoon) Co-chair of the Photocatalysis in Organic Synthesis Symposium at the 2013 Spring National ACS meeting, New Orleans, LA (with Prof. Tehshik Yoon)
EDITORIAL BOARDS	Associate Editor, <i>Beilstein Journal of Organic Chemistry</i> Editorial Advisory Board, <i>Chem</i> Editorial Advisory Board, <i>Organic and Biomolecular Chemistry</i> Editorial Advisory Board, <i>Helvetica Chimica Acta</i>

SELECTED PUBLICATIONS (undergraduate coauthors are underlined>

- 1) “Redox Catalysis Facilitates Lignin Depolymerization.” Bosque, I.; Magallanes, G.; Rigoulet, M.; Kärkäs, M. D.; Stephenson, C. R. J. *ACS Cent. Sci.* **2017**, DOI: 10.1021/acscentsci.7b00140
- 2) “Synthesis of Resveratrol Tetramers via a Stereoconvergent Radical Equilibrium.” Keylor, M. H.; Matsuura, B. S.; Griesser, M.; Chauvin, J.-P.; Harding, R. A.; Kirillova, M. S.; Zhu, X.; Fischer, O. J.; Pratt, D. A.; Stephenson, C. R. J. *Science* **2016**, *354*, 1260.
- 3) “A Visible Light-Mediated Radical Smiles Rearrangement and its Application to the Synthesis of a Difluorospirocyclic ORL-1 Antagonist.” Douglas, J. D.; Albright, H.; Sevrin, M. J.; Cole, K. P.; Stephenson, C. R. J. *Angew. Chem. Int. Ed.* **2015**, *54*, 14898.
- 4) “A scalable and operationally simple radical trifluoromethylation.” Beatty, J. W.; Douglas, J. D.; Cole, K. P.; Stephenson, C. R. J. *Nature Comm.* **2015**, *6*, 7919.
- 5) “A Scalable Biomimetic Synthesis of Resveratrol Dimers and Systematic Evaluation of their Antioxidant Activity.” Matsuura, B. S.; Keylor, M. H.; Li, B.; Lin, Y.; Allison, S.; Pratt, D. A.; Stephenson, C. R. J. *Angew. Chem. Int. Ed.* **2015**, *54*, 3754.
- 6) “Synthesis of (–)-Pseudotabersonine, (–)-Pseudovincadifformine, and (+)-Coronaridine Enabled by Photoredox Catalysis in Flow.” Beatty, J. W.; Stephenson, C. R. J. *J. Am. Chem. Soc.* **2014**, *136*, 10270.
- 7) “A Photochemical Strategy for Lignin Degradation at Room Temperature.” Nguyen, J. D.; Matsuura, B. S.; Stephenson, C. R. J. *J. Am. Chem. Soc.* **2014**, *136*, 1218.
- 8) “Tandem Dienone-Photorearrangement-Cycloaddition for the Rapid Generation of Molecular Complexity.” Bos, P. H.; Antalek, M. T.; Porco, J. A.; Stephenson, C. R. J. *J. Am. Chem. Soc.* **2013**, *135*, 17978.

- 9) "Engaging Unactivated Alkyl, Alkenyl and Aryl iodides in Visible-Light Mediated Free Radical Reactions." Nguyen, J. D.; D'Amato, E. M.; Narayanam, J. M. R.; Stephenson, C. R. J. *Nature Chem.* **2012**, *4*, 854.
- 10) "Visible Light-Mediated Atom Transfer Radical Addition via Oxidative and Reductive Quenching of Photocatalysts." Wallentin, C.-J.; Nguyen, J. D.; Finkbeiner, P.; Stephenson, C. R. J. *J. Am. Chem. Soc.* **2012**, *134*, 8875.
- 11) "Visible Light Photoredox Catalysis in Flow." Tucker, J. W.; Zhang, Y.; Jamison, T. F.; Stephenson, C. R. J. *Angew. Chem. Int. Ed.* **2012**, *51*, 4144.
- 12) "Total Synthesis of (+)-Gliocladin C Enabled by Visible Light Photoredox Catalysis." Furst, L.; Narayanam, J. M. R.; Stephenson, C. R. J. *Angew. Chem., Int. Ed.* **2011**, *50*, 9655.
- 13) "Visible Light Mediated Conversion of Alcohols to Halides." Dai, C.; Narayanam, J. M. R.; Stephenson, C. R. J. *Nature Chem.* **2011**, *3*, 140.
- 14) "Visible Light Photoredox Catalysis: Aza-Henry Reactions via C–H Functionalization." Condie, A. G.; González-Gómez, J. C.; Stephenson, C. R. J. *J. Am. Chem. Soc.* **2010**, *132*, 1464.
- 15) "Electron-Transfer Photoredox Catalysis: Development of a Tin-Free, Reductive Dehalogenation Reaction." Narayanam, J. M. R.; Tucker, J. W.; Stephenson, C. R. J. *J. Am. Chem. Soc.* **2009**, *131*, 8756.

NAMED AND PLENARY LECTURES

- 1) **Science Forum 2017**, Berlin, Germany 10-14-Sep-2017
- 2) **Ernest Ritchie Memorial Lecture**, University of Sydney, 2-Aug-2017.
- 3) **12th International Symposium on Organic Free Radicals**, Shanghai, China, Oct-2016
- 4) **Schulich Lectureship**, Technion, Israel, 9-Jun-2016
- 5) **4th Zing Continuous Flow Chemistry Conference**, Albufeira, Portugal, 25-28-Apr-2016
- 6) **Reactive Intermediates Symposium**, Society of Chemistry and Industry, London, UK, 20-Oct-2015
- 7) **Southern Highlands Conference on Heterocyclic Chemistry**, Sydney, Australia, Aug-2015
- 8) **EROS 2014 Best Reagent Award Lecture**, Université de Montreal, 17-Oct-2014
- 9) **Padwa Lecture**, Columbia University, 2-Oct-2014
- 10) **Alphora Lecture**, University of Toronto, 5-May-2014
- 11) **Banff Symposium on Organic Chemistry**, Banff, Canada, 8-11-Nov-2013
- 12) **Student-invited lecturer**, University of Delaware, 25-Sep-2013
- 13) **Excellence in Chemistry Symposium**, University of Texas–Southwestern Medical Center, 7-May-2013
- 14) **Bristol–Myers Squibb Lecture**, Harvard University, 15-Oct-2012
- 15) **TY Shen Lecture**, University of Manchester, UK, 9-Jul-2012
- 16) **30th Annual Graduate Student Symposium**, University of Buffalo, 17-May-2012
- 17) **Lundbeck Lecture**, Université de Sherbrooke, 4-Apr-2012
- 18) **Novartis Lecture**, Princeton University, 15-Mar-2012
- 19) **Eli Lilly Lecture**, Northwestern University, 23-Feb-2012
- 20) **Bristol–Myers Squibb Lecture**, Colorado State University, 13-Feb-2012
- 21) **Quebec-Ontario Mini-Symposium on Organic and Bioorganic Chemistry**, Montreal, Nov-2011
- 22) **Amgen Young Investigator Award Symposium**, Amgen, Thousand Oaks, CA, 4-Oct-2011
- 23) **Organic Chemistry Day**, University of Missouri – Columbia, 9-Apr-2011

>160 INVITED LECTURES