



Sarah E. Wengryniuk, Ph.D.

Temple University, 1901 N. 13th St., Philadelphia, PA 19122
Office: 442 Beury Hall Lab: 417, 449 Beury Hall
Phone: 215-204-0360 Email: sarahw@temple.edu
Laboratory Website: wengryniuklab.weebly.com



EDUCATION

The Scripps Research Institute, La Jolla, CA

NIH Postdoctoral Research Fellow; Advisor: Dr. Phil S. Baran

2012–2015

- Research and mentorship in the field of organic methodology development and natural product synthesis

Duke University, Durham, NC

Ph.D. Organic Chemistry, Advisor: Dr. Don M. Coltart

2007–2012

- Research in the field of organic synthesis and methodology

Winthrop University, Rock Hill, SC

B.Sc. Chemistry, Advisor: Dr. Aaron Hartel; B.Sc. Biology

2003–2007

- Research in the field of organic synthesis and methodology
-

PROFESSIONAL EXPERIENCE

Temple University, Philadelphia, PA

Research: Reversed-Polarity Organic Methodology Development and Applications in Total Synthesis

Associate Professor of Chemistry

2022-present

Assistant Professor of Chemistry

2015–2022

The Scripps Research Institute, La Jolla, CA- NIH NRSA Postdoctoral Fellow

Advisor: Professor Phil S. Baran

2012–2015

- Research in collaboration with Bristol Meyers-Squibb on the late stage functionalization of macrocyclic drug candidates as well as the development of a method for the direct bromination of fused heterocyclic *N*-oxides.
- Efforts towards the total synthesis of novel diterpenoids pallambins A-D.

Duke University, Durham, NC- NSF Graduate Research Fellow

Thesis Advisor: Professor Don M. Coltart

2007–2012

- Studied the development of methods for the regiocontrolled asymmetric α,α -bis- and α,α - α',α' -tetraalkylation of ketones via *N*-amino cyclic carbamate chiral auxiliaries as well as the application of these methods to the synthesis of complex molecules

Winthrop University, Rock Hill, SC- Undergraduate Research Fellow

Advisor: Professor Aaron M. Hartel

2006–2007

- Studied the generation of β -hydroxyketones and silyl enol ethers via the treatment of α,β -epoxycarbonyls with silyllithium reagents
- Worked on the development of a seven-step linear synthesis of racemic nicotine for use in an advanced undergraduate laboratory setting.

TEACHING EXPERIENCE

- **Temple University- Graduate Course Development** *Spring 2018–Spring 2021*
Ethics and Responsibility in Chemical Research
– Developed and implemented a new discussion-based ethics course to meet federal agency requirements for ethics education of graduate students. Course is student led and team-taught. This course has been adopted as a requirement for all first-year graduate students as part of graduate curriculum.
- **Temple University- Graduate Chemistry Lecture** *Spring 2018, Spring 2020, Fall 2020*
Heterocyclic Chemistry (CHEM8200)
– Developed new course focusing on the synthesis and medicinal chemistry applications of heterocyclic molecules
- **Temple University- Graduate Chemistry Lecture** *Fall 2016, 2018, Fall 2019*
Organic Reaction Mechanisms (CHEM5202)
- **Temple University- Organic Chemistry Lecturer** *Fall 2017, 2021*
Organic Chemistry I (CHEM2201) ~130-160 students/class
- **Temple University- Organic Chemistry Lecturer** *Spring 2015, 2016, 2017*
Organic Chemistry I (CHEM2201) ~90 students/class

GRANTS, FELLOWSHIPS AND AWARDS

Independent External Funding (Total: \$2,305,311)

- NSF CHE AWARD** (PI) \$477,048 *04/2022–04/2025*
Oxidative Strategies for the Synthesis of N-Alkyl and N-Aryl Pyridinium Salts
- NSF CAREER AWARD** (PI) \$650,000 *04/2018–03/2023*
Novel Synthetic Applications of (Poly)Cationic λ^3 -Iodanes
- NIH R01-GM-123098-01** (PI) \$1,493,710 *04/2017–05/2022*
Simplified Approaches to Medium-Sized Heterocycles for the Synthesis of Bioactive Molecules
Equipment Supplement: 3R01GM123098-02S1 (PI) \$51,601 *09/2018*
- PRF# 56603-DNI1** (PI) \$110,000 *direct* *08/2016–09/2018*
American Chemical Society – Petroleum Research Fund Grant

Independent Internal Funding

- Summer Research Award** \$7,000 *2016*
Temple University, Provost Office
- Temple University Early Career Development Award** \$6,147.93 *2021*
Temple University, Department of Chemistry

Independent Awards

Robert L. Smith Early Career Professor 2019
Italia-Eire Teacher of the Year, Temple University 2018
Thieme Chemistry Journal Awardee 2017

Mentored Career

National Institutes of Health – Ruth L. Kirchstein NRSA F32 Postdoctoral Fellowship 2013–2015
Duke University – Kathleen Zielek Fellowship 2011–2012
National Science Foundation – Graduate Research Fellowship 2008–2011
Duke University – Graduate School Conference Travel Fellowship 2010
Merck Inc. – Women In Chemistry Fellowship 2007
Winthrop University – Summer Research Fellowship, College of Arts and Sciences 2006
Winthrop University – Mamie G. Harley Scholarship, College of Arts and Sciences 2005
Winthrop University – Rudisill-Hamm Scholarship, Outstanding Performance in the Sciences 2004
Winthrop University – NCAA Track Scholar-Athlete of the Year 2004
Winthrop University – Big South Scholar Athlete, Track and Cross Country 2003–2007
Winthrop University – Presidential Scholar Athlete, Track and Cross Country 2003–2007
Winthrop University – Winthrop Scholar, full academic scholarship 2003–2007
Winthrop University – Varsity Track and Cross-Country scholarship 2003–2007

PUBLICATIONS

Independent Career *Underline indicates undergraduate author

- 28) Hoblos, B. H., **Wengryniuk S. E.*** One-Pot I(III) *N*-HVI Mediated Rearrangement/Reduction of Alcohols to Access 7–9 Membered Cyclic Ethers. *Manuscript in Preparation*.
- 27) Hoblos, B. H. Callas, C., **Wengryniuk S. E.*** Concise Asymmetric Total Syntheses of Heliannuols A and D via an I(III) *N*-HVI Umpolung Alcohol Ring Expansion. *Manuscript in Preparation*
- 26) Motsch, B. M.; **Wengryniuk, S. E.*** Site-Selective Synthesis of Benzylic 2,4,6-Colildinium Salts via Electrochemical C–H Functionalization. *Organic Letters* ASAP
<https://doi.org/10.1021/acs.orglett.2c02376>
- 25) Jalali, M., Bissember, A., Yates, B., **Wengryniuk, S. E.***, Ariaifard, A.* Oxidation of Electron-Deficient Phenols Mediated by Hypervalent Iodine(V) Reagents: Fundamental Mechanistic Features Revealed by a DFT-Based Investigation. *J. Org. Chem.* **2021**, 86, 12237–12246.
Early Version Available: ChemRxiv: doi: 10.33774/chemrxiv-2021-1590n
- 24) Mikhael, M., Guo, W., Tantillo, D. J.*, **Wengryniuk S. E.*** Umpolung Strategy for Arene C–H Etherification Leading to Functionalized Chromanes Enabled by I(III) Nitrogen-Ligated Hypervalent Iodine Reagents. *Adv. Syn. Catal.* **2021**, 363, 4867–4875
Early Version Available: ChemRxiv: doi:10.33774/chemrxiv-2021-s0961
- 23) Xiao, X., Roth, J. M., Greenwood, N., Velopolcek, M., Aguirre, J., Jalali, M., Araifard, A., **Wengryniuk S. E.*** Bidentate-Nitrogen Ligated I(V) Reagents, Bi(*N*)-HVIs: Synthesis, Characterization, and Reactivity. *J. Org. Chem.* **2021**, 86, 6566.

- 22) Hoblos, B. H., **Wengryniuk, S. E.*** Preparation of (Bis)Cationic Nitrogen-Ligated I(III) Reagents: Synthesis of [(pyridine)₂lPh]₂OTf⁻ and [(4-CF₃-pyridine)₂lPh]₂OTf⁻ *Organic Syntheses*. **2021**, 98, 391.
- 21) Tierno, A. F.; Walters, J. C.; Vazquez-Lopez, A.; Xiao, X.; **Wengryniuk, S. E.*** Heterocyclic Group Transfer Reactions with I(III) N-HVI Reagents: Access to *N*-Alkyl (Heteroaryl)onium Salts via Olefin Aminolactonization. *Chem. Sci.* **2021**, 12, 6385–6392.
Early Version Available: ChemRxiv: doi.org/10.26434/chemrxiv.12934817.v1
- 20) Xiao, X. **Wengryniuk, S. E.*** Recent Developments in the Selective Oxidative Dearomatization of Phenols to *o*-Quinones and *o*-Quinols with Hypervalent Iodine Reagents. *Synlett*, **2021**, 32, 752–762. *Invited Synfacts*.
- 19) Sousa e Silva, F. C., Van, N. T., **Wengryniuk S. E.*** Direct C–H α -Arylation of Enones with ArI(O₂CR)₂ Reagents. *J. Am. Chem. Soc.* **2020**, 142, 64–69. [*Highlighted in Trends in Chemistry, 2020 2, 589.*]
- 18) Xiao, X., Greenwood, N., **Wengryniuk S. E.*** Dearomatization of Electron-Deficient Phenols to ortho-Quinones Enabled by Bidentate Nitrogen-Ligated I(V) Reagents. *Angew. Chem. Int. Ed.* **2019**, 58, 16181–16187.
- 17) Mikhael, M., Adler, S. A., **Wengryniuk S. E.*** Chemoselective Oxidation of Equatorial Alcohols with *N*-Ligated λ^3 -Iodanes. *Org. Lett.* **2019**, 21(15), 5889–5893. [*Featured in Org. Chem. Highlights: Oxidation*]
- 16) Sousa e Silva, F. C., Bloomer, B. J., **Wengryniuk S. E.*** Reactivity of (NNN)-Pincer Ni(II) Aryl Complex Towards Oxidative Carbon-Heteroatom Bond Formation. *Tetrahedron* **2018**, 74, 3278–3282.
- 15) Walters, J. C. †, Tierno, A. F. †, Dubin, A., **Wengryniuk, S. E.*** (Poly)cationic λ^3 -Iodane Mediated Oxidative Ring Expansion of Secondary Alcohols. *Eur. J Org. Chem.* **2018**, 1460–1464.
- 14) **Wengryniuk, S. E.***, Canesi, S. “Rearrangements and Fragmentations Mediated by Hypervalent Iodine” in *Patai's Chemistry of Functional Groups: The Chemistry of Hypervalent Halogen Compounds*, Eds. Marek, I., Olofsson, B., and Rappoport, Z. John Wiley & Sons, Ltd: Chichester, UK. Published Online 13 JUN 2018.
- 13) Sousa, F. C. S.; Tierno, A. F.; **Wengryniuk, S. E.*** Hypervalent Iodine Reagents in High Valent Transition Metal Chemistry. *Molecules* **2017**, 22, 780.
- 12) Kelley, B. T.; Walters, J. C.; **Wengryniuk, S. E.*** Access to Diverse Oxygen Heterocycles via Oxidative Rearrangement of Benzylic Tertiary Alcohols. *Org. Lett.* **2016**, 18, 1896–1899.

Mentored Career

- 11) Huynh, U.; Uddin, Md. N.; **Wengryniuk, S. E.**; McDonald, S. L.; Coltart, D. M. A simple and efficient approach to the *N*-amination of oxazolidinones using monochloramine. *Tetrahedron Lett.* **2016**, 57, 4799–4802.

- 10) Martinez, L. P.; Umemiya, S.; **Wengryniuk, S. E.**; Baran, P. S. 11-Step Total Synthesis of Pallambins C and D. *J. Am. Chem. Soc.* **2015**, *138*, 7536–7539.
 - 9) Tarsis, E. M.; Rastelli, E. J.; **Wengryniuk, S. E.**; Coltart, D. M. The apratoxin marine natural products: isolation, structure determination, and asymmetric total synthesis. *Tetrahedron*, **2015**, *71*, 5029–5044.
 - 8) Dey, S.; **Wengryniuk, S. E.**; Tarsis, E. M.; Robertson, B. D.; Zhou, G.; Coltart, D. M. A formal asymmetric synthesis of apratoxin D via advanced-stage asymmetric ACC α,α -bisalkylation of a chiral nonracemic ketone. *Tetrahedron Lett.* **2015**, *56*(22), 2927.
 - 7) **Wengryniuk, S. E.**; Weickgenannt, A., Reiher, C.; Strotman, N. A.; Chen, K.; Eastgate, M. D.; Baran, P. S. Regioselective Bromination of Fused Heterocyclic *N*-Oxides. *Org. Lett.*, **2013**, *15*(4), 792.
 - 6) Kohler, M. C.; **Wengryniuk, S. E.**; Coltart, D. M., “Asymmetric Alkylations in Stereoselective Synthesis.” in *Stereoselective Synthesis of Drugs and Natural Products*; Eds. Andrushko, V.; Andrushko, N. October 2013.
 - 5) Robertson, B. D.; **Wengryniuk, S. E.**; Coltart, D. M. Asymmetric Total Synthesis of Apratoxin D. *Org. Lett.*, **2012**, *14*(20), 5192.
 - 4) **Wengryniuk, S. E.**; Lim, D.; Coltart, D. M. Regioselective Asymmetric α,α -Bisalkylation of Ketones via Complex Induced *Syn*-Deprotonation of Chiral *N*-Amino Cyclic Carbamate Hydrazones. *J. Am. Chem. Soc.* **2011**, *133*, 8714.
 - 3) Krenske, E. H.; Houk, K. N.; Lim, D.; **Wengryniuk, S. E.**; Coltart, D. M. Origins of Stereoselectivity in the α -Alkylation of Chiral Hydrazones. *J. Org. Chem.* **2010**, *75*, 8578.
 - 2) Garnsey, M. R.; **Wengryniuk, S. E.**; Coltart, D. M. Triphenylmethanethiol in *Encyclopedia of Reagents for Organic Synthesis* John Wiley & Sons **2009**.
 - 1) Reynolds, S.; **Wengryniuk, S. E.**; Hartel A. M. Selective Reduction of α,β -epoxyketones to β -Hydroxyketones using Silyllithium Reagents. *Tetrahedron Lett.* **2007**, *48*, 6751.
-

SEMINARS

Wengryniuk, S. E.; Umpolung Strategies Towards C-O, C-C, and C-N Bonds Enabled by Hypervalent Iodine Reagents. The Ohio State University, *Scheduled October 7, 2022*. Departmental Seminar.

Wengryniuk, S. E.; Umpolung Strategies Towards C-O, C-C, and C-N Bonds Enabled by Hypervalent Iodine Reagents. Corteva Agriscience, *Scheduled October 6, 2022*. Departmental Seminar.

Wengryniuk, S. E.; Umpolung Strategies Towards C-O, C-C, and C-N Bonds Enabled by Hypervalent Iodine Reagents. University of Indiana, *Scheduled October 5, 2022*. Departmental Seminar.

Wengryniuk, S. E.; Umpolung Strategies Towards C-O, C-C, and C-N Bonds Enabled by Hypervalent Iodine Reagents. University of Rochester. October 8, 2021. Departmental Seminar.

Wengryniuk, S. E.; Flipping Reactivity on its Head: Novel Umpolung Strategies Enabled by Hypervalent Iodine Reagents. Millersville University, Philadelphia, PA. October 4, 2021. Departmental Seminar.

Wengryniuk, S. E.; Umpolung Strategies Towards C-O, C-C, and C-N Bonds Enabled by Hypervalent Iodine Reagents. University of Illinois, Urbana-Champaign. September 13, 2021. Departmental Seminar.

Wengryniuk, S. E.; Umpolung Strategies Towards C-O, C-C, and C-N Bonds Enabled by Hypervalent Iodine Reagents. University of Pittsburgh, held over Zoom. June 24, 2021. Departmental Seminar.

Wengryniuk, S. E.; Umpolung Strategies Towards C-O, C-C, and C-N Bonds Enabled by Hypervalent Iodine Reagents. California Institute of Technology, held over Zoom. June 2, 2021. Departmental Seminar.

Wengryniuk, S. E.; Umpolung Strategies Towards C-O, C-C, and C-N Bonds Enabled by Hypervalent Iodine Reagents. The Scripps Research Institute, La Jolla, CA, held over Zoom. May 28, 2021. Departmental Seminar.

Wengryniuk, S. E.; Umpolung Strategies Towards C-O, C-C, and C-N Bonds Enabled by Hypervalent Iodine Reagents. Gilead Sciences, Process Chemistry, held over Zoom. April 1, 2021. Departmental Seminar.

Wengryniuk, S. E.; Umpolung Strategies Towards C-O, C-C, and C-N Bonds Enabled by Hypervalent Iodine Reagents. University of Florida, held over Zoom. March 23, 2021. Departmental Seminar.

Wengryniuk, S. E.; Umpolung Strategies Towards C-O, C-C, and C-N Bonds Enabled by Hypervalent Iodine Reagents. University of California, Berkeley, held over Zoom. November 3, 2020. Departmental Seminar.

Wengryniuk, S. E.; Novel Umpolung Strategies Enabled by Hypervalent Iodine Reagents. Bristol Myers Squibb, held over Zoom. September 22, 2020. Departmental Seminar.

Wengryniuk, S. E.; Novel Umpolung Strategies Enabled by Hypervalent Iodine Reagents. University of Waterloo, held over Zoom. June 24, 2020. 1st Annual Hypervalent Iodine Virtual Symposium.

Wengryniuk, S. E.; Novel Umpolung Strategies Enabled by Hypervalent Iodine Reagents. Texas A&M University, held over Zoom. June 18, 2020. Departmental Seminar.

Wengryniuk, S. E.; Flipping Reactivity on its Head: Novel Umpolung Strategies Enabled by Hypervalent Iodine Reagents. The College of New Jersey. February 5, 2020. Departmental Seminar.

Wengryniuk, S. E.; Novel Umpolung Strategies Enabled by Hypervalent Iodine Reagents. University of Pennsylvania, Philadelphia, PA. September 26, 2019. Philadelphia Organic Chemists Club.

Wengryniuk, S. E.; Flipping Reactivity on its Head: Novel Umpolung Strategies Enabled by Hypervalent Iodine Reagents. St. Joseph's University, Philadelphia, PA. September 18, 2019. Departmental Seminar.

Wengryniuk, S. E.; Development of Novel Approaches to Medium-Ring Bioactive Molecules. Fox Chase Cancer Center, Philadelphia, PA. October 13, 2017. Molecular Therapeutics Mini-Seminar.

Wengryniuk, S. E.; Electrophilic Alcohol Ring Expansions for the Synthesis of Medium-Ring Oxygen Heterocycles. Villanova University, Philadelphia, PA. November 15, 2016. Departmental Seminar.

Wengryniuk, S. E.; Novel Approaches to the Synthesis of Medium-Sized Rings. Indiana University of Pennsylvania, Indiana, PA. October 13, 2015. Departmental Seminar.

MEETINGS & PRESENTATIONS

Independent Career:

Wengryniuk, S. E.; Site-Selective Synthesis of Benzylic 2,4,6-Collidinium Salts via Electrochemical C–H Functionalization. 2022 Fall National Meeting of the American Chemical Society, Chicago, IL United States, August 24, 2022. Invited Talk.

Wengryniuk, S. E.; Heterocyclic group transfer reactions of I(III) N-HVIs: New strategies for the synthesis of N-alkyl pyridinium salts. 2022 Fall National Meeting of the American Chemical Society, Chicago, IL United States, August 20, 2022. Invited Talk.

Wengryniuk, S. E.; Site-Selective Synthesis of Benzylic 2,4,6-Collidinium Salts via Electrochemical C–H Functionalization. Organic Reactions and Processes Gordon Research Conference, Bryant University, Providence, RI United States, June 3, 2022. Invited Talk.

Wengryniuk, S. E.; Site-Selective Synthesis of Benzylic 2,4,6-Collidinium Salts via Electrochemical C–H Functionalization. Mid-Atlantic Regional ACS Meeting, The College of New Jersey, United States, July 21–July 26, 2022. Invited Talk.

Wengryniuk, S. E.; Bidentate Nitrogen-Ligated I(V) Reagents, Bi(N)-HVIs: Synthesis, Structure, and Reactivity. Canadian Chemistry Conference and Exhibition, Calgary, Alberta, Canada, United States, June 14, 2022. Invited Talk.

Wengryniuk, S. E.; Novel Umpolung Strategies Enabled by Hypervalent Iodine Reagents. International Conference on Hypervalent Iodine Chemistry, Moscow, Russia. *Cancelled 2020, 2021 due to COVID-19. To be held 2022. Invited Speaker.*

Wengryniuk, S. E.; Umpolung Approaches to Aryl Ether Synthesis via Electrophilic Oxygen Species ACS Mid-Atlantic Regional Meeting [Virtual], *June 10, 2021*. Oral Presentation. *Invited Speaker.*

Wengryniuk, S. E.; Novel Umpolung Strategies Enabled by Hypervalent Iodine Reagents. 2020 Fall National Meeting of the American Chemical Society, Division of Organic Chemistry Young Investigator Symposium [Virtual]. August 17-28, 2020. Pre-recorded over Zoom, available online on-demand. *Invited Speaker.*

Wengryniuk, S. E.; Novel Umpolung Strategies Enabled by Hypervalent Iodine Reagents. 2020 Fall National Meeting of the American Chemical Society, Division of Organic Chemistry Young Investigator Symposium. August 7, 2020. *Live over Zoom. Invited Speaker.*

Wengryniuk, S. E.; Novel Umpolung Strategies Enabled by Hypervalent Iodine Reagents. Telluride Accelerating Reaction Discovery Workshop. July 28, 2020. Virtual over Zoom. *Invited Speaker.*

Wengryniuk, S. E.; Novel Umpolung Strategies Enabled by Hypervalent Iodine Reagents. Telluride Summer Lecture Series. July 21, 2020. Virtual over Zoom, Accelerating Reaction Discovery Representative. *Invited Speaker.*

Wengryniuk, S. E.; Umpolung Approaches to the Synthesis and Application of Heterocycles Enabled by Hypervalent Iodine Reagents. Southeast Regional Meeting of the American Chemical Society: Heterocyclic Chemistry in the Southeast and Beyond. Savannah, GA. October 20–23, 2019. SERMACS-1132. Oral Presentation. *Invited Speaker.*

Wengryniuk, S. E.; Exploiting Hypervalent Iodine Reagents for the Development of Novel Umpolung Methodologies. Organic Syntheses Workshop on Synthetic Organic Chemistry, The Steamboat Grand, Steamboat Springs, CO, United States, August 4–August 9, 2019. Oral Presentation. *Invited Speaker.*

Wengryniuk, S. E.; Metal-Free C–H Arylation of Enones with Hypervalent Iodine Reagents. Organic Reactions and Processes Gordon Research Conference, Stonehill College, Easton, MA United States, July 21–July 26, 2019. Poster Presentation.

Wengryniuk, S. E.; Diverse Approaches to the Synthesis of Oxygen Heterocycles: Exploring the Reactivity of N-HVIs. Stereochemistry Gordon Research Conference, Salve Regina University, Newport, RI United States, July 22–July 27, 2018. Poster Presentation.

Wengryniuk, S. E.; Oxidative Difunctionalization of Olefins with *N*-HVIs: Access to Diverse Pyridinium Salts. Young Researchers Conference, Drexel University, Philadelphia, PA, United States, April 27, 2019. Oral Presentation. *Invited Speaker.*

Wengryniuk, S. E.; Exploring the Reactivity of *N*-HVIs: Synthesis of Diverse Oxygen Heterocycles. International Conference on Hypervalent Iodine Chemistry, Cardiff University, Cardiff, Wales United Kingdom, July 1–July 4, 2018. Oral Presentation.

Wengryniuk, S. E.; Diverse Approaches to the Synthesis of Oxygen Heterocycles: Exploring the Reactivity of *N*-HVIs. Heterocycles Gordon Research Conference, Salve Regina University, Newport, RI United States, June 17–June 22, 2018. Poster Presentation.

Wengryniuk, S. E.; Synthesis of Diverse Medium-ring Oxygen Heterocycles via Electrophilic Alcohol Ring Expansions. Florida Heterocyclic Chemistry Conference, University of Florida, Gainesville, FL United States, March 4–March 7, 2018. Oral Presentation. *Invited Speaker.*

Wengryniuk, S. E.; Synthesis of Diverse Medium-ring Oxygen Heterocycles via Electrophilic Alcohol Ring Expansions. ACS National Meeting; Fresenius Award Symposium Honoring Tom Maimone, New Orleans, LA, United States, March 18–March 22, 2018. Oral Presentation. *Invited Speaker.*

Wengryniuk, S. E.; Synthesis of Diverse Medium-ring Oxygen Heterocycles via Oxidative Rearrangement of Simple Alcohols. Natural Products and Bioactive Molecules Gordon Research

Conference, Proctor Academy, Andover, NH United States, July 31–August 4, 2017. Poster Presentation.

Wengryniuk, S. E.; Synthesis of Diverse Medium-ring Oxygen Heterocycles via Oxidative Rearrangement of Simple Alcohols. Heterocycles Gordon Research Conference, Salve Regina University, Newport, RI United States, June 18–23, 2017. Oral and Poster Presentation.

Wengryniuk, S. E.; Synthesis of Diverse Oxygen Heterocycles via Oxidative Ring Expansions of Simple Alcohols. “Women in Organic Chemistry Symposia”, ACS Mid-Atlantic Regional Meeting, Hershey, PA, United States, June 4–6, 2017. MARM-191. Oral Presentation.

Wengryniuk, S. E.; Electrophilic Alcohol Ring Expansions for the Synthesis of Medium-Ring Oxygen Heterocycles. 252nd ACS National Meeting, Philadelphia, PA, United States, August 21–25, 2016. ORGN-22. Oral Presentation.

Wengryniuk, S. E.*; A General Approach to Medium-Ring Ethers via Alcohol Ring Expansions: Enabling Reactivity of (Poly)cationic λ^3 -Iodanes. Organic Reactions and Processes Gordon Conference, Stonehill College, Easton, MA, United States, July 17–22, 2016. Poster Presentation.

Wengryniuk, S. E.*; Facile Access to Diverse Oxygen Heterocycles via Oxidative Rearrangement of Benzylic Tertiary Alcohols with (Poly)Cationic Hypervalent Iodine Reagents. ACS Younger Chemists Committee Annual Poster Session, University of the Sciences, Philadelphia, PA, United States, February 22, 2016. Poster Presentation.

Mentored Career:

Wengryniuk, S. E.; Martinez, L. R.; Baran, P. S. Progress Towards the Total Syntheses of Pallambins A-D. Natural Products Gordon Conference, Proctor Academy, Andover, NH, United States, July 20–25, 2015. Poster Presentation.

Wengryniuk, S. E.; Lim, D.; Coltart, D. M. Regiocontrolled Asymmetric α,α -Bis- and $\alpha,\alpha,\alpha',\alpha'$ -Tetraalkylation of Ketones via *N*-Amino Cyclic Carbamate Chiral Auxiliaries. 240th ACS National Meeting, Boston, MA, United States, August 22–26, 2010, ORGN-616. Poster Presentation.

Wengryniuk, S. E.; Lim, D.; Coltart, D. M. Regiocontrolled Asymmetric α,α -Bis- and $\alpha,\alpha,\alpha',\alpha'$ -Tetraalkylation of Ketones via *N*-Amino Cyclic Carbamate Chiral Auxiliaries. 240th ACS National Meeting, Boston, MA, United States, August 22–26, 2010. Poster Presentation. (Sci-Mix)

Wengryniuk S. E.; Hartel, A. M. Optimization of the Selective Reduction of α,β -Epoxy-carbonyls with Silyllithium Reagents. 234th ACS National Meeting, Boston, MA, 2007. Merck Women in Chemistry Award Talk. WCC-005. Oral Presentation.

Wengryniuk S. E.; Hartel, A. M. Optimization of the Selective Reduction of α,β -Epoxy-carbonyls with Silyllithium Reagents. 21st National Conference on Undergraduate Research, San Rafael, CA, 2007. Poster Presentation.

Wengryniuk S. E.; Hartel, A. M. Optimization of the Selective Reduction of α,β -Epoxy-carbonyls with Silyllithium Reagents. 232nd ACS National Meeting, San Francisco, CA, 2006 CHED-313. Poster Presentation.

Wengryniuk S. E.; Hartel, A. M. Optimization of the Selective Reduction of α,β -Epoxy-carbonyls with Silyllithium Reagents. University of South Carolina Undergraduate Research Symposium, Columbia, SC, 2006. Poster Presentation.

MENTORSHIP

Current Graduate Students (7): Bilal Hoblos (5th year), Myriam Mikhael (5th year), Andres Vazquez-Lopez (3rd year), Bill Motsch (2nd year), Alexi Martin (2nd year), Angelika Baran (1st year), Matthew Sherwood (1st year)

Former Graduate Students (5): Jennifer Walters (Ph.D., '19); Felipe Cesar Sousa E. Silva (Ph.D., '20); Andrew Mellinger (M.S., '20), Jessica Roth (M.S., '19), Margaret Meade (M.S., '17)

Undergraduates (15): Eric Collins (URP, *current*); Sagar Desai (Chemical Engineering, *current*); Micah Morton (Science Scholars, *current*); Sophia Adler ('20, *Science Scholar, Current: UC Berkeley, Molecular and Cellular Biology Ph.D. program*); Christopher Callas ('20, *URP, Current: Janssen Pharmaceuticals*); Nguyen T. Van ('20, *URP*); Nathaniel Greenwood ('19, *URP, Current: Yale Chemistry Ph.D. program*); Maria Velopolcek ('19, *URP, Current: Duke Chemistry Ph.D. program*); Olivia Spergel ('18, *Science Scholar*); Aimee Dubin ('18, *URP*); Emily Laughlin ('17, *France Velay Fellow, Current: Pfizer*); Brandon Bloomer ('17, *URP, Current: UC Berkeley Chemistry Ph.D. Program*); Mark Gleason ('16, *URP*); Susan Gramlich ('16, *Diamond Research Scholar*); Rich Aversa ('16, *URP*).

UNIVERSITY, DEPARTMENTAL, COMMUNITY SERVICE

College and University Service

Member, Temple Graduate Board (Elected Position)	2021-2024
Selection Committee, Goldwater Scholars Nominations	2019-present
Selection Committee, Pre-Professional Health Services	2019-present
Selection Committee, Science Scholars Program	2018-present
Member, Temple Graduate Board (Elected Position)	2018-2021
Mentor, Frances Velay Fellows Program	2017, 2018
Mentor, Diamond Scholars Program	2016
Judge, Undergraduate Research Poster Session	2015-present
Mentor, Undergraduate Research Program	2015-present

Departmental Service

Member, Chair Search Committee	2021
Chair, Chemistry COVID-19 Resumption of Research and Safety Committee	2020-present
Member, Faculty Search Committee	2018, 2019
Ad hoc Member, Seminar Committee	2018-2020
Chair, Graduate Student Recruitment Committee	2017-2020
Member, Chemistry NMR Committee	2017-present
Ad hoc Reviewer, Chemistry Admissions Committee	2015-present
Member, Website Committee	2016-present
Member, Graduate Student Recruitment Committee	2015-present
Panelist, Temple Energy Frontiers Research Center Professional Development	2015

Community Service and Outreach

Editorial Advisory Board, Journal of Organic Chemistry	2020-present
--	--------------

Awards Committee, Philadelphia ACS Section	2021-present
Founder, Temple "Outstanding Women Leaders in Science" (OWLS) Mentorship Program	2021
Project "GISMO" Science Fair Mentorship Program, Duckery Elementary	2016-2019
Judge, George Washington Carver Science Fair	2015-present
Board Member, George Washington Carver Science Fair	2015-present

PROFESSIONAL ACTIVITIES

Chair, Philadelphia Organic Chemists Club	2022-2023
Co-Chair Elect, Philadelphia Organic Chemists Club	2021-2022
Ad Hoc Panelist, NSF Chemical Synthesis	2021
Ad Hoc Panelist, NIH SBCB	2020
Fox School of Business, Online Teaching Certification	2020
Member, ACS Philadelphia Section Awards Committee	2021-2023
Member, Journal of Organic Chemistry Editorial Advisory Board	2020-present
Invited Participant, 2020 Telluride Accelerating Reaction Discovery Workshop	2020
Invited Participant, 2019 Organic Syntheses Workshop on Organic Chemistry	2019
Discussion Leader, Organic Reactions and Processes Gordon Conference	2019
Ad Hoc Panelist, NSF CAREER Proposal Review	2019
Panelist, "Career Paths in Organic Chemistry" Empowering Women in Organic Chemistry	2019
Discussion Leader, Stereochemistry Gordon Conference	2018
Discussion Leader, Heterocyclic Chemistry Gordon Conference	2018
Ad Hoc Panelist, NSF CAREER	2018
Invited Guest, <i>Organic Letters</i> Editorial Advisory Board Meeting, Spring ACS	2018
Discussion Leader, Florida Heterocyclic Chemistry Conference	2018
Symposia Organizer, Women in Organic Chemistry, Mid-Atlantic Regional ACS	2017
Panelist, NSF GRFP Application Review	2017
Discussion Leader, Natural Products Gordon Conference	2015
Duke University Memorial Hill Lecture Co-Chair	2009-2010
Member, American Chemical Society	2007-present
Phi Lambda Upsilon Graduate Student Society	2007-2012
Graduate Student Member, American Chemical Society	2007-2012
Tri Beta National Biology Honor Society	2006-2007
Phi Kappa Phi National Honor Society	2006-2007
Student Affiliate, American Chemical Society	2006-2007
Peer Reviewer	
<i>J. Am. Chem. Soc., Org. Lett., J. Org. Chem., ACS Catalysis, Acc. Chem. Res., Nature Chem., Angew. Chem. Int. Ed., Chem. Sci., Chem, Tetrahedron, Tet. Lett., Bioorg. Med. Chem. Lett., Chem. Eur. J, Eur. J. Org. Chem., Asian J. Org. Chem., Coord. Chem. Rev., ARKIVOC</i>	