

Anthony S. Grillo

Assistant Professor • Department of Chemistry (Biochemistry Division)
 707 Old Chemistry • 2855 Campus Way • University of Cincinnati
 phone: (513) 556-1034 • email: grilloas@uc.edu
[NCBI Bibliography](#) • [Google Scholar](#) • [Group Website](#)

APPOINTMENTS

2022 to present **Assistant Professor** Cincinnati, OH
Department of Chemistry (Biochemistry Division, Chair), University of Cincinnati

AFFILIATIONS

2023 to present **Faculty Member**, Metabolism and Obesity Division Cincinnati, OH
Neuroscience Graduate Program, University of Cincinnati

2023 to present **Associate Member** Cincinnati, OH
 Center for Environmental Genetics (CEG), University of Cincinnati

RESEARCH PROGRAM

Research in the Grillo Lab at the University of Cincinnati focuses on the molecular understanding of how genetic, age-related, or environmental-induced **mitochondrial dysfunction** alters micronutrient metabolism and proteostatic failure in neurologic disease and normative aging. Our research at the interface of biochemistry, physiology, and neuroscience employs multiple *in vitro* and *in vivo* models to investigate the basic biochemistry and molecular mechanisms of inborn errors of metabolism and age progressive neurodegenerative diseases. We further seek to discover and understand innovative pharmaceutical interventions for these diseases.

EDUCATION

University of Illinois at Urbana-Champaign Urbana, IL
Doctor of Philosophy (Ph.D.) in Chemistry with a focus on Organic Chemistry, Dec. 2017

- Research Advisor: Martin D. Burke
- Thesis: Restored Iron Transport by a Small Molecule Promotes Absorption and Hemoglobinization: Discovery, Development, and Mechanistic Studies

University of Michigan Ann Arbor, MI
Bachelor of Science (B.S.) in Chemistry with Highest Honors, May 2011
Bachelor of Science (B.S.) in Biochemistry, May 2011

- Research Advisor: Masato Koreeda
- Thesis: Development of Novel Chiral *N*-Heterocyclic Carbenes

RESEARCH TRAINING

Jan. 2018 to July 2022 **NIH F32 Postdoctoral Fellow, Alzheimer's Disease Research Center Trainee**
 With Professor Matt Kaerberlein
Department of Laboratory Medicine & Pathology, University of Washington, Seattle, WA

June 2011 to Dec. 2017 **NSF Graduate Research Fellow (NSF GRFP)**
 With Professor Martin D. Burke
Department of Chemistry, University of Illinois at Urbana-Champaign, Urbana, IL

May 2008 to May 2011 **Undergraduate Research Volunteer in Natural Product Synthesis**
 With Professor Masato Koreeda
Department of Chemistry, University of Michigan, Ann Arbor, MI

PUBLICATIONS (underlined when corresponding)

3. Nuss, J.; Kaeberlein, M.; Bitto, A.; **Grillo, A.S.** Ndufs4^{-/-} Mice: A Testing Ground for Longevity Interventions. *Geroscience*, **2025**, *47*, 6129-6138.
2. Bitto, A.; **Grillo, A.S.**; Ito, T.K.; Stanaway, I.B.; Nguyen, B.M.G.; Ying, K.; Tung, H.; Smith, K.; Tran, N.; Velikanje, G.; Urfer, S.R.; Snyder, J.M.; Barton, J.; Sharma, A.; Ernst-Bernhard, K.; Wang, L.; Smith, D.L.; Thompson, J.W.; DuBois, L.; DePaolo, W.; Kaeberlein, M. Acarbose Suppresses Symptoms of Mitochondrial Disease in a Mouse Model of Leigh Syndrome. *Nat. Metab.* **2023**, *5*, 955-967. [Medline](#)
1. Kelly, C.; Couch, R.K.; Ha, V.T.; Bodart, C.M.; Wu, J.; Huff, S.; Herrel, N.T.; Kim, H.D.; Zimmermann, A.O.; Shattuck, J.; Pan, Y-C.; Kaeberlein, M.; **Grillo, A.S.** Iron Status Influences Mitochondrial Disease Progression in Complex I-Deficient Mice. *eLife* **2023**, *12*, e75825. [Medline](#)

Prior to Cincinnati

7. **Grillo, A.S.**; Bitto, A.; Kaeberlein, M. The NDUFS4 Knockout Mouse: A Dual Threat Model of Childhood Mitochondrial Disease and Normative Aging. *Methods Mol. Biol.* **2021**, *2277*, 143-155. [Medline](#)
6. Martin-Perez, M.#; **Grillo, A.S.#**; Ito, T.#; Valente, A.S.; Han, J.; Entwisle, S.; Huang, H.Z.; Kim, D.; Yajima, M.; Kaeberlein, M.; Villén, J. PKC Downregulation upon Rapamycin Treatment Attenuates Mitochondrial Disease. *Nat. Metab.* **2020**, *2*, 1472-1481. [Medline](#)
These authors contributed equally to this work.
5. Muraglia, K.A.; Chorghade, R.S.; Kim, B.R.; Tang, X.X.; Shah, V.S.; **Grillo, A.S.**; Daniels, P.N.; Cioffi, A.G.; Karp, P.H.; Zhu, L.; Welsh, M.J.; Burke, M.D. Small Molecule Ion Channel Restores Host Defenses in Cystic Fibrosis Airway Epithelia. *Nature* **2019**, *567*, 405-408. [Medline](#)
4. Yien, Y.Y.; Shi, J.; Chen, C.; Cheung, J.T.M.; **Grillo, A.S.**; Shrestha, R.; Li, L.; Zhang, X.; Kafina, M.D.; Kingsley, P.D.; King, M.J.; Ablain, J.; Li, H.; Zon, L.I.; Palis, J.; Burke, M.D.; Bauer, D.E.; Orkin, S.H.; Koehler, C.M.; Phillips, J.D.; Kaplan, J.; Ward, D.M.; Lodish, H.F.; Paw, B.H. FAM210B is an Erythropoietin Target and Regulates Erythroid Heme Synthesis by Controlling Mitochondrial Iron Import and Ferrochelatase Activity. *J. Biol. Chem.* **2018**, *293*, 19797-19811. [Medline](#)
3. **Grillo, A.S.**; SantaMaria, A.M.; Kafina, M.D.; Cioffi, A.G.; Huston, N.C.; Han, M.; Seo, Y.A.; Yien, Y.Y.; Nardone, C.; Menon, A.V.; Fan, J.; Svoboda, D.C.; Anderson, J.B.; Hong, J.D.; Nicolau, B.G.; Subedi, K.; Gewirth, A.A.; Wessling-Resnick, M.; Kim, J.; Paw, B.H.; Burke, M.D. Restored Iron Transport by a Small Molecule Promotes Absorption and Hemoglobinization in Animals. *Science* **2017**, *356*, 608-616. [Medline](#)
2. Cioffi, A.G.; Hou, J.; **Grillo, A.S.**; Diaz, K.A.; Burke, M.D. Restored Physiology in Protein-Deficient Yeast by a Small Molecule Channel *J. Am. Chem. Soc.* **2015**, *137*, 10096-10099. [Medline](#)
1. Li, J.; **Grillo, A.S.**; Burke, M.D. From Synthesis to Function via Iterative Assembly of *N*-Methyliminodiacetic Acid Boronate Building Blocks *Acc. Chem. Res.* **2015**, *48*, 2297-2307. [Medline](#)

BOOK CHAPTERS

1. Reynolds, A., Benine, A., and **Grillo, A.S.** (2026) Science Without Borders: Transatlantic Blended Mobility for STEM Students, in *Handbook of Using Virtual Exchange Across Disciplines: Building Global Citizens from Home* (Venketaraman, K., Ed.), 1st ed., Springer International Handbooks of Education. Under Review.

PATENTS

4. Burke, M.D.; **Grillo, A.S.**; Cioffi, A.G.; SantaMaria, A.; Blair, D.; Blake, A. 2019 Hinokitiol analogues, methods of preparing and pharmaceutical compositions thereof.

3. Burke, M.D.; Nardone, C.; Blake, A.; SantaMaria, A.; **Grillo, A.S.**; Cioffi, A.G.; Lyu, Y. 2019 Restoration of transmembrane copper transport.
2. Burke, M.D.; **Grillo, A.S.** 2016 Restoring physiology in iron-deficient organisms using small molecules.
1. Burke, M.D.; Cioffi, A.G.; Diaz, K.A.; Hou, J.; **Grillo, A.S.** 2016 Restoring physiology with small molecule mimics of missing proteins.

RESEARCH FUNDING (ONGOING AND COMPLETED)

Current

2024-2029 R01AG084718, NIH NIA (\$2,684,912 over 5 years)

Pending

2026-2031 R01HD118015, NIH NICHD (\$3,833,003 over 5 years) – Resubmission

2026-2029 CS-CSA-2026-143, Cotrell Scholars Award (\$120,000 over 3 years) – Sole UC Nominee

2026-2030 2026-A-40622, Pew Biomedical Scholars Award (\$300,000 over 4 years) – Sole UC Nominee

Completed

2024-2025 United Mitochondrial Disease Foundation Principal Investigator Grant (\$100,000 over 2 years)

Prior to Cincinnati

2022 Transition to Independence Award (NIH/NIA K99): Awarded but declined (IS=10)

2021-2022 University of Washington Alzheimer's Disease Research Center (ADRC) Trainee

2018-2021 Ruth L. Kirschstein NRSA Postdoctoral Fellowship, F32 (NIH/NINDS F32 NS110109)

2019 UW Nathan Shock Center of Excellence in Basic Biology of Aging Mini-Pilot Grant

2011-2016 National Science Foundation Graduate Research Fellowship (NSF GRFP)

2012-2013 Lester and Kathleen Coleman Fellowship

2011-2012 St. Elmo Brady Graduate Fellowship

2010 Summer Undergraduate Research Program in Chemistry

2010 ACS Division of Organic Chemistry Summer Undergraduate Research Fellowship

2009 ASPET Summer Undergraduate Research Fellowship in Pharmacology

CONFERENCE PRESENTATIONS, MEETINGS, AND SEMINARS

13. **Gerontological Society of America Conference, National Harbor, MD, Nov. 2026 (invited speaker)**
A Mitochondrial Complex I Deficiency Induces Iron Accumulation and Tau Aggregation
12. **Cleveland State University Department of Chemistry, Cleveland, OH, Nov. 2025 (invited seminar)**
A Mitochondrial Complex I Deficiency Induces Iron Accumulation and Tau Aggregation
11. **University of Cincinnati Department of Environmental & Public Health Sciences, Cincinnati, OH, Oct. 2025 (invited seminar)**
A Mitochondrial Complex I Deficiency Induces Iron Accumulation and Tau Aggregation
10. **University of Cincinnati LAMS Knowledge Bites, Cincinnati, OH, Oct. 2025 (invited seminar)**
Molecular Mechanisms of Mitochondrial Dysfunction in Neurodegenerative Disease
9. **Indiana State University Department of Chemistry, Terra Haute, IN, Sep. 2025 (invited seminar)**
A Mitochondrial Complex I Deficiency Induces Iron Accumulation and Tau Aggregation
8. **Rose-Hulman Institute Department of Chemistry, Terre Haute, IN, Oct. 2024 (invited seminar)**
A Mitochondrial Complex I Deficiency Induces Iron Accumulation and Tau Aggregation
7. **University of Bordeaux, Bordeaux, France, Mar. 2024 (invited seminar)**
A Mitochondrial Complex I Deficiency Induces Iron Accumulation and Tau Aggregation

6. **American Society of Biochemistry & Molecular Biology, San Antonio, TX, Mar. 2024 (invited speaker)**
A Mitochondrial Complex I Deficiency Induces Iron Accumulation and Tau Aggregation
5. **University of Cincinnati Neuroscience Graduate Program, Cincinnati, OH, Oct. 2023 (invited seminar)**
A Mitochondrial Complex I Deficiency Induces Iron Accumulation and Tau Aggregation
4. **American Aging Association Annual Meeting (AGE), Oklahoma City, OK, June 2023 (poster)**
A Complex I Deficiency Induces Tau Aggregation in Mitochondrial Disease
3. **University of Washington Biology of Aging Program, Seattle, WA, June 2023 (invited seminar)**
A Mitochondrial Complex I Deficiency Induces Iron Accumulation and Protein Aggregation
2. **Cleveland State University Department of Chemistry, Cleveland, OH, April 2023 (invited seminar)**
A Mitochondrial Complex I Deficiency Induces Iron Accumulation and Protein Aggregation
1. **University of Cincinnati Department of Molecular & Cellular Biosciences, Cincinnati, OH, Mar. 2023 (invited seminar)**
A Mitochondrial Complex I Deficiency Induces Iron Accumulation and Protein Aggregation

Prior to Cincinnati

17. **American Aging Association Annual Meeting (AGE), San Antonio, TX, May 2022 (poster and oral)**
A Complex I Deficiency Induces Tau Aggregation in Mitochondrial Disease
16. **Alzheimer's Disease Research Center Hybrid Meeting, Los Angeles, CA, May 2022 (invited speaker)**
A Mitochondrial Complex I Deficiency Induces O₂-Dependent Tau Aggregation
 - Clinical Core Session: "Mitochondria and Bioenergetics in Alzheimer's Disease: Why Should We Care"
15. **American Aging Association Annual Meeting (AGE), Madison, WI, July 2021 (poster and oral)**
O₂-Dependent Tau Aggregation in Mitochondrial Disease Mice
 - Won Best Postdoctoral Data Blitz Presentation (out of ~25 trainee presentations)
 -
14. **Gerontological Society of America 2020 Annual Scientific Meeting, Philadelphia, PA (virtual meeting), Nov. 2020 (oral presentation)**
Protein Kinase C Downregulation upon Rapamycin Treatment Attenuates Mitochondrial Disease
13. **University of Washington Department of Pathology Interest Group, Seattle, WA, Jan. 2020 (oral presentation)**
PKC is a Key Target for Attenuation of Inflammation by Rapamycin During Severe Mitochondrial Disease
12. **Mitochondria & Metabolism Interest Group, Seattle, WA, June 2019 (oral presentation)**
PKC is a Key Target for Attenuation of Inflammation by Rapamycin During Severe Mitochondrial Disease
11. **Mitochondria: From Basic Biology to Mechanisms of Disease Conference, Nassau, Bahamas, Feb. 2019 (oral presentation)**
PKC is a Key Target for Attenuation of Inflammation by Rapamycin During Severe Mitochondrial Disease
 - Chair of "Mitochondria: Diseases and Interventions II" Speaker Session
10. **Metals in Medicine Gordon Research Conference, Andover, NH, June 2018 (invited speaker)**
Restored Iron Transport by a Small Molecule Promotes Absorption and Hemoglobinization in Animals
 - Emerging Young Investigators Session
9. **University of Michigan Research Seminar, Ann Arbor, MI, Nov. 2017 (invited speaker)**
Restored Iron Transport with a Small Molecule Promotes Absorption and Hemoglobinization in Animals
8. **7th Congressional Biolron Conference, Los Angeles, CA, May 2017 (oral presentation)**
Restored Iron Transport with a Small Molecule Promotes Absorption and Hemoglobinization in Animals
 - Won Bothwell-Finch Award for Best Podium Presentation (out of 55 oral presentations)

7. **Millipore-Sigma Alfred R. Bader Award for Student Innovation Symposium, Milwaukee, WI, Aug. 2016 (invited speaker)**
Restored Iron Transport with a Small Molecule Promotes Absorption and Hemoglobinization
6. **10th BioMetals Conference, Dresden, Germany, July 2016 (oral presentation)**
Restored Iron Transport with a Small Molecule Promotes Absorption and Hemoglobinization
5. **Natural Products Gordon Research Conference, Andover, NH, July 2015 (poster)**
Restoring Physiology in Iron-Deficient Organisms
4. **28th Beak-Pines Organic Area Allerton Conference, Monticello, IL, Nov. 2014 (oral presentation)**
Restoring Physiology in Protein-Deficient Cells with Small Molecules
 - Won Best Oral Presentation (1 awarded per year)
3. **Howard Hughes Medical Institute National Conference, Ashburn, VA, Nov. 2014 (poster)**
Replacing Missing Proteins with Molecular Prosthetics
2. **University of Illinois R.C. Fuson Student Talks, Urbana, IL, Aug. 2014 (invited speaker)**
Restoring Physiology in Protein-Deficient Cells with Small Molecules
 - Won R.C. Fuson Travel Award for outstanding research achievements (3 awarded per year)
1. **248th American Chemical Society National Meeting, San Francisco, CA, Aug. 2014 (oral presentation)**
Restoring Physiology in Protein Deficient Cells with Small Molecules

CONFERENCES ATTENDED

2026	Gerontological Society of America, National Harbor, MD
2026	UMDF Mitochondrial Medicine, Orlando, FL
2026	American Aging Association (AGE), Provo, UT
2025	Gerontological Society of America, Boston, MA
2025	Midwest Metabolism/TRiMAD, Ann Arbor, MI
2025	UMDF Mitochondrial Medicine, St. Louis, MO
2025	American Aging Association (AGE), Anchorage, AK
2024	Gerontological Society of America, Seattle, WA
2024	UMDF Mitochondrial Medicine, Cleveland, OH
2024	American Aging Association (AGE), Madison, WI
2024	American Society for Biochemistry & Molecular Biology (ASBMB), San Antonio, TX
2023	East-West Iron Club, Cincinnati, OH
2023	UMDF Mitochondrial Medicine, Charlotte, NC
2023	American Aging Association (AGE), Oklahoma City, OK
2023	American Society for Biochemistry & Molecular Biology, Seattle, WA

MENTORING EXPERIENCE

July 2022 to present	Principal Investigator 1 postdoc (1 current), 9 graduate students (9 current), 19 undergraduates (7 current), 1 REU, 3 high school students, 8 summer rotation students, currently serving on 25 student committees
June 2018 to June 2022	Research Mentor 1 graduate student, 12 undergraduates, 1 high school student, 2 research assistants Lab PI: Professor Matt Kaerberlein <i>University of Washington, Seattle, WA</i>
Aug. 2013 to May 2017	Research Mentor 1 graduate student, 5 undergraduates, >10 summer rotation students Lab PI: Professor Martin Burke <i>University of Illinois at Urbana-Champaign, Urbana, IL</i>

TEACHING EXPERIENCE

- Jan. 2026
to May 2026 **Professor (Lecture)**
CHEM 4041: Biochemical Energy
42 students enrolled
University of Cincinnati, Cincinnati, OH
- Aug. 2025
to Dec. 2025 **Professor (Lecture)**
CHEM 3040: Introduction to Biochemistry
145 students enrolled
University of Cincinnati, Cincinnati, OH
- Jan. 2025
to May 2025 **Professor (Lecture)**
CHEM 8034: Advanced Biochemical Metabolism
17 students enrolled
University of Cincinnati, Cincinnati, OH
- Jan. 2025
to May 2025 **Professor (Lecture)**
CHEM 4041: Biochemical Energy
33 students enrolled
University of Cincinnati, Cincinnati, OH
- Aug. 2024
to Dec. 2024 **Professor (Lecture)**
CHEM 2030: Survey of Biochemistry I
104 students enrolled
University of Cincinnati, Cincinnati, OH
- Jan. 2024
to May 2024 **Professor (Lecture)**
CHEM 3040: Introduction to Biochemistry
117 students enrolled
University of Cincinnati, Cincinnati, OH
- Aug. 2023
to Dec. 2023 **Professor (Lecture)**
CHEM 2030: Survey of Biochemistry I
96 students enrolled
University of Cincinnati, Cincinnati, OH
- Aug. 2022
to Dec. 2022 **Professor (Lecture)**
CHEM 8039: Transition Metals in Biochemistry, Biology, and Medicine
6 students enrolled
University of Cincinnati, Cincinnati, OH

Prior to Cincinnati

- Jan. 2012
to May 2012 **Head Teaching Assistant (Discussion/Lecture)**
CHEM 436: Fundamental Organic Chemistry II
Course Instructor: Professor Douglas Mitchell
University of Illinois at Urbana-Champaign, Urbana, IL
- Sep. 2012
to Dec. 2012 **Head Teaching Assistant (Discussion/Lecture)**
CHEM 236: Fundamental Organic Chemistry I
Course Instructor: Professor Ryan Rafferty
University of Illinois at Urbana-Champaign, Urbana, IL

- Jan. 2011 **Teaching Assistant (Discussion/Lecture)**
to May 2012 CHEM 436: Fundamental Organic Chemistry II
Course Instructor: Professor Martin Burke
University of Illinois at Urbana-Champaign, Urbana, IL
- Sep. 2011 **Teaching Assistant (Discussion/Lecture)**
to Dec. 2011 CHEM 236: Fundamental Organic Chemistry I
Course Instructors: Professors Peter Beak and Steven Zimmermann
University of Illinois at Urbana-Champaign, Urbana, IL
- Teacher Ranked as Outstanding (top 5% of all instructors at UIUC)
- Aug. 2009 **Structured Study Group Leader**
to May 2011 CHEM 210 (Honors): Organic Structure and Reactivity I
CHEM 215 (Honors): Organic Structure and Reactivity II
With Professor Brian Coppola
University of Michigan, Ann Arbor, MI
- Aug. 2010 **Undergraduate Student Instructor (Discussion/Lecture)**
to Dec. 2010 CHEM 210: Organic Structure and Reactivity I
Course Instructors: Professors John Wolfe, Anne McNeil, John Montgomery, and Alan Kiste
University of Michigan, Ann Arbor, MI
- Jan. 2010 **Undergraduate Student Instructor (Laboratory)**
to May 2010 CHEM 216 (Honors): Synthesis and Characterization of Organic Compounds Laboratory
Course Instructor: Professor Masato Koreeda
University of Michigan, Ann Arbor, MI
- June 2009 **Undergraduate Student Instructor (Laboratory)**
to May 2011 CHEM 216: Synthesis and Characterization of Organic Compounds Laboratory
Course Instructors: Professors Masato Koreeda, Ginger Shultz, and Kyoung Moo Koh
University of Michigan, Ann Arbor, MI
- Aug. 2008 **Organic Chemistry Tutor**
to May 2009 Science Learning Center
University of Michigan, Ann Arbor, MI

PROFESSIONAL DEVELOPMENT

- 2024 NSF CAREER Workshop
2023 NSF GRFP Reviewer Topics
2023 Faculty Development: Writing a Good Data Management Plan
2023 NSF CAREER Award Session
2023 Faculty Development: More than Just the Numbers
2023 Faculty Development: Writing the One Pager
2023 Early Career Investigator Grant Workshop – How to Write a Grant in 12 Weeks
2021 UW School of Medicine Workshop – Surviving and Thriving During the Research Years
2021 National Institute on Aging Summer Training Course in Experimental Aging Research
2019 Future Faculty Fellows Workshop
2018 Biomedical Research Integrity Program
2016 Chemistry 590F: Preparing Future Faculty (audited)

REVIEWER FOR JOURNAL

- Biomolecules
Frontiers in Neuroscience
Geroscience
Journal of Clinical Investigation

Nature Metabolism
 Neural Regeneration
 Science Translational Medicine

REVIEWER FOR GRANTS, FELLOWSHIPS, AND AWARDS

NIH Special Emphasis Panel ZRG1 BN-F (90) S – Molecular and Cellular Topics in Basic Neuroscience
 NIH Developmental Brain Disorder (DBD) Study Section
 University of Michigan Center for Environmental Equivalent Pilot Grant Reviewer
 American Aging Association (AGE) Early Career Scholars Award Reviewer

LEADERSHIP, SERVICE, AND OUTREACH

Current

2026 - UC Presidential Medal of Graduate Student Excellence Committee – Member
 2026 Gerontological Society of America Conference – Session Chair
 2025 - Undergraduate Curriculum Committee – Member
 2025 - Graduate Program Evaluation Ad Hoc Committee – Member
 2025 - Sigma Xi University of Cincinnati Chapter – President
 2025 - American Aging Association (AGE) Early Career Scholars Program - Reviewer
 2024 - Biochemistry Division at University of Cincinnati – Chair
 2024 - Fermented Friends Club – Faculty Advisor
 2023 - Tackling Global Problems Through International Collaborative Science – Director
 2023 - ACS Seed Program, Co-Lead
 2022 - Graduate Admissions Committee – Member
 2022 - OEPT Training Workshop – Lead
 2022 - Associate Editor, Frontiers in Neuroscience

Past

2024-2025 Research Advisory Committee - Member
 2024-2025 Sigma Xi University of Cincinnati Chapter – Vice-President and President-Elect
 2024-2025 Faculty Search Committee – Co-Chair
 2024-2025 Graduate Recruiting Weekend - Lead
 2025 NIH Special Emphasis Panel ZRG1 BN-F (90) S – Review Panel Member
 2024 University of Michigan Center for Environmental Genetics Pilot Grant – Reviewer
 2024 Recruiting Committee – Member
 2023 NIH CSR DBD Study Section – Review Panel Member
 2022-2024 Diversity, Equity, and Inclusion Taskforce Committee – Member

Prior to Cincinnati

2021 American Aging Association – Grants, Meetings, and Opportunities Committee
 2021 American Aging Association – Educational Resources Committee
 2014 STEAM Volunteer's Program, University of Illinois
 2014 13th Senter Symposium on Frontier's in Organic Chemistry Lectureship Series
 2012 Lab Partner's Program, University of Michigan
 2010 IDEA Institute Summer Enrichment Science Camp, University of Michigan

HONORS AND AWARDS

2026 Outstanding Sponsored Award Recipient
 2025 Excellence in Undergraduate Research Mentorship Award
 2025 Outstanding Sponsored Award Recipient
 2024 McNair Scholars Darwin T. Turner Scholars Award – Breakfast of Champions
 2024 Spring Faculty Development Award (\$600)
 2023 Spring Faculty Development Award (\$3,825)
 2023 Excellence in Undergraduate Research Mentorship Award

Prior to Cincinnati

2021-2022 University of Washington Alzheimer's Disease Research Center Trainee
 2021 Best Postdoctoral Data Blitz Presentation Award – AGE Conference, Madison, WI
 2018-2021 NIH Ruth L. Kirschstein National Research Service Award, F32
 2017 Pines Travel Award to present research seminar at University of Michigan
 2017 Bothwell-Finch Award for Best Presentation – Biolron Conference, Los Angeles, CA
 2016 Sigma Aldrich Alfred R. Bader Award for Student Innovation
 2015 Eastman Travel Grant, University of Illinois at Urbana-Champaign
 2014 Pines Award for Best Presentation at Beak-Pines Conference
 2014 R.C. Fuson Travel Award for outstanding research achievements
 2012 Teacher Ranked as Excellent for top 10% of instructors
 2011 Teacher Ranked as Outstanding for top 5% of instructors
 2011-2016 National Science Foundation Graduate Research Fellowship Program (NSF GRFP)
 2011 American Institute of Chemists Chemistry Award

ACTIVITIES AND ORGANIZATIONS

2023- American Society for Biochemistry and Molecular Biology
 2020- American Aging Association
 2020- Gerontological Society of America
 2020- Federation of American Societies for Experimental Biology
 2016-2018 International Biolron Society
 2011-2016 American Chemical Society
 2009-2011 Alpha Chi Sigma Professional Chemistry Fraternity