

ELISABETTA FASELLA

Associate Professor of Practice
Department of Chemistry and Biochemistry
Saint Joseph's University - University City campus
600 South 43rd Street
Philadelphia, PA 19104

Office: 215-596-7514
Fax: 215-596-8543
e.fasell@usciences.edu

EDUCATION

PhD, Chemistry	Columbia University, NY	1992-1997
Graduate studies in Chemistry	Università degli Studi di Roma, Italy	1991-1992
BS, Chemistry (Laurea in Chimica)	Università degli Studi di Roma, Italy	1985-1991

PROFESSIONAL EXPERIENCE

Associate professor of practice (NTT), Saint Joseph's University	2022-present
Associate professor (NTT), University of the Sciences	2018-2022
Assistant professor (NTT), University of the Sciences	2007-2018
Assistant professor (TT), University of the Sciences	2003-2007

Courses taught: General Chemistry I and II; Organic Chemistry I&II; Principles of Organic Chemistry laboratory I and II; Undergraduate Research, Heterocyclic Chemistry. Team taught courses: Chemical Synthesis Laboratory; Medicinal Chemistry; Structure activity relationships.

Research areas: i. Chemical education - study of the effect of implementing active-learning techniques on student performance in general chemistry; ii. Green organic synthetic methods

University of Wisconsin- Eau Claire, Eau Claire, WI

Assistant professor	2001-2003
Courses taught: Organic Chemistry I and II lecture and lab, Advanced Organic Chemistry Laboratory	

Beloit College, Beloit, WI

Visiting assistant professor	2000-2001
Courses taught: General Chemistry, Chemical Equilibrium, Advanced Topics in Bioorganic Chemistry	

University of Wisconsin- Madison

Postdoctoral Research, Department of Chemistry	1997-2000
Advisor: Professor Laura L. Kiessling	
Project: Synthesis of neoglycopolymers to probe protein-carbohydrate interactions. Design and synthesis of bifunctional ligands with anticancer activity.	

Columbia University, New York, NY

Graduate Studies, Department of Chemistry

1993-1997

Advisor: Professor Ronald Breslow

GSI for Organic and Advanced Organic Chemistry Laboratories

Dissertation project: Design, synthesis and evaluation of enzyme mimetics. Research focused on development of functionalized cyclodextrins with enantioselective transaminase activity.

Università degli Studi di Roma, Italy

1991-1992

Graduate research assistant, Department of Chemistry

Advisor: Professor Enrico Baciocchi

Graduate research project: Study of the oxidation mechanism of benzyl sulfides.

Undergraduate research assistant

1990-991

Advisor: Professor Enrico Baciocchi

Undergraduate thesis project: Mechanistic study of the oxidation reactions of benzyltrialkylsilanes; synthesis of the substrates and study of reaction kinetics by UV-vis spectrophotometry.

PUBLICATIONS

1. J. R. McKee, M. Zanger, C. Chiarello, J. A. McKee, W. Dorfner, E. Fasella, Y. Koo (2019) "A Semimicro/Microscale Adaptation of the Cobalt Chloride/Sodium Borohydride Reduction of Methyl Oleate" *J. Chem. Educ.* 96 (4), 772-775.
2. M. Mahalingam; E. Morlino; E. Fasella (2019) "The Impact of Technology Assisted 'Scaffolding' on Student Learning in General Chemistry" in the book "Technology Integration in Chemistry Education and Research (TICER)"; ACS Symposium Series #1318, Edited by Tanya Gupta and Robert E. Belford.
3. E. Fasella and M. Mahalingam (2017) "Effective Use of Technology for Asynchronous Learning to Elevate Students' Knowledge and Problem Solving Ability" in the book "Unplugging From The Classroom" edited by Sharmila Pixy Ferris and Hilary Wilder., Elsevier.
4. R. M. Owen, C. B. Carlson, J. Xu, P. Mowery, E. Fasella, L. L. Kiessling (2007) "Bifunctional Ligands that Target Cells Displaying the $\alpha_v\beta_3$ Integrin." *ChemBioChem* 8(1), 68-82.
5. E. Fasella, S. Dong, R. Breslow (1999) "Reversal of Optical Induction in Transamination by Regioisomeric Bifunctionalized Cyclodextrins." *Bioorg. Med. Chem.* 7, 709-714.
6. E. Baciocchi, E. Fasella, O. Lanzalunga, M. Mattioli (1993) "Stereochemistry of the C-S Bond Cleavage in 1-Phenylethyl Phenyl Sulfide Radical Cation: Evidence for a Unimolecular Pathway." *Angew. Chem. Int. Ed. Engl.* 32, 1071-1072.
7. E. Baciocchi, M. Crescenzi, E. Fasella, M. Mattioli (1992) "A Kinetic Study of the Electron-Transfer-Initiated Carbon-Silicon Bond Cleavage reactions of Benzyltrialkylsilanes promoted by 12-Tungstocobalt (III) ate Ion." *J. Org. Chem.* 57, 4684-4689.

REPRESENTATIVE POSTER & ORAL PRESENTATIONS

1. C. Hovis, E. Fasella, J. Herath (2022) “Comparing the resolution of racemic ibuprofen by chemical and enzymatic methods”, USciences Research Day, Philadelphia, PA, April 2022.
2. M. Mahalingam, E. Fasella (2021) “Scaffolding Student Learning in General Chemistry for Online Synchronous Classes” (20 minutes asynchronous presentation), Lilly ITLC Online Conference, May 2021.
3. E. Fasella, M. Mahalingam (2020) “Adopting a free textbook in general chemistry: usage and efficacy”, Temple University Faculty Conference on Teaching Excellence, Temple University, Philadelphia, PA.
4. J. Banks, W. Cain, E. Fasella (2019) “Investigation of Mild Reaction Conditions for the Dehydration and Oxidation of Alcohols” USciences Research Day, Philadelphia, PA, April 2019
5. E. Fasella, M. Mahalingam (2018) “Implementation of ALEKS, a responsive-adaptive learning system, in freshman chemistry”, Biennial Conference on Chemical Education, Notre Dame University, South Bend, IN, July 2018.
6. M. Mahalingam, E. Morlino, E. Fasella (2017) “Evidence driven development of a STEM pedagogy using a “scaffolding” approach to improve student learning”, Leahy Award recipient at USciences Annual Educational Innovations Poster session, Philadelphia, PA.
7. J. Fang, A. Hogan, E. Fasella (2017) “Synthesis of lophine and lophine analogs using conventional and microwave assisted reactions”, USciences Research Day, Philadelphia, PA.
8. L. Zhang, J. Fang, A. Hogan, E. Fasella and M. C. Tettamanzi (2016) “Use of selective TOCSY NMR experiments for quantifying menthone/menthol ratio in the organic synthesis lab” 252nd ACS National Meeting, Philadelphia, PA.
9. S. Yilmaz, J. Hendricks, Jr., K. Gredzik, E. Fasella, M. C. Tettamanzi (2015) “Synthesis and conformational studies by 1D-NOE NMR of acetamido-N-methylbenzamides” Sigma Xi Symposium, Saint Joseph University, Philadelphia, PA.
10. E. Fasella, M. C. Tettamanzi, and S. Yilmaz (2015) “Solving puzzles and curing headaches in the organic chemistry laboratory”, nomination for the Bright Idea Award, USciences Annual Educational Innovations Poster session, Philadelphia, PA.
11. J. Hendricks Jr., E. Fasella, M. C. Tettamanzi (2014) “Synthesis and NMR characterization of monomer units of foldamers”, 248th ACS National Meeting, San Francisco, CA.
12. A. Johnson, V. Conaway, S. Schoelkopf, E. Fasella (2010) “Microwave assisted Fischer esterification reactions” Sigma Xi Research Symposium, Saint Joseph University, Philadelphia, PA.
13. R. Bambal, T. Nguyen, J. Nixon, E. Fasella (2007) “Chemical and enzymatic approaches to the synthesis of dimeric hydroxylated chalcones”. Sigma Xi research symposium, Saint Joseph University, Philadelphia, PA.
14. C. Pavlik, T. Nguyen, T. Lucas, E. Fasella (2006) “Attempted synthesis of analogs of the cofactor of phenylalanine ammonia lyase”. Sigma Xi research symposium, Saint Joseph University, Philadelphia, PA.
15. J. Nixon, J. Da Silva J, E. Fasella (2006) “Synthesis of monomeric and dimeric hydroxylated chalcones” AAAS National Meeting, St Louis, Missouri.

16. E. Fasella, E. V. Price, B. M. Schmiede (2004) "Synthesis of substituted imidazolones as analogs of the cofactor of phenylalanine ammonia lyase", Abstr. Pap. Amer. Chem. Soc. 228, CHED-190.

AWARDS

Philadelphia American Chemical Society Award for Excellence in Undergraduate Teaching 2023
Lindback Excellence in Teaching Award 2020
USciences Student Advocacy and Service Award 2019
USciences Patricia Leahy Teaching Award 2017
Recipients: M. Mahalingam, E. Morlino, E. Fasella

GRANTS FUNDED (PI role)

1. Pittsburgh Conference Memorial National College Grants Program 2014
\$10,000 instrument grant, P.I.: E. Fasella
Co P.I.: F. T. Schaefer
2. The Petroleum Research Fund, GB4 Grant 2003-2005
\$35,000. "Investigation of the origin of the enzymatic cofactor 4-methylidene-imidazole-5-one (MIO) and of its role in Deamination reactions." P.I.: E. Fasella

GRANTS FUNDED (collaborator role)

1. Milton Lev Memorial grant 2015
\$4,500 P.I. Dr. Z. Liu
Project collaborators: E. Fasella, M. C. Tettamanzi
2. Merck/American Association for the Advancement of Science 2005-2007
Joint grant from Biological Sciences and Chemistry & Biochemistry Departments
\$60,000 over 3 years, P. I.: M. Bruist, co-investigators: E. Fasella; T. Baumstark; C. Bentzley; A. DerMarderosian; Y. Koo; G. Moyna, J. Pierce, J. Porter.

FELLOWSHIPS

Postdoctoral Fellowship, University of Wisconsin - Comprehensive Cancer Center 1998-1999
\$10,000
Graduate Fellowship from the Kanagawa Academy of Science and Technology 1993-1997
Graduate Fellowship from the Università di Roma, Italy 1991-1992

PROFESSIONAL DEVELOPMENT

NSF sponsored Summer Microwave workshop, St. Mary's City, MA June 2017.
NSF-cCWCS workshop on "Active Learning in Organic Chemistry", Cincinnati, OH, June 2016.
NSF- cCWCS workshop on "Medicinal Chemistry", Minneapolis, MN, July 2012.
POGIL Introductory workshop at Franklin and Marshall in 2007.
Residential School in Medicinal Chemistry symposium, Drew University, Summer 2006.
NSF-cCWCS workshop titled "Green Chemistry", Eugene, OR, Summer 2002.