

Claire T. Fournier

Curriculum Vitae

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Education

Ph.D. Biology 2006-2013
Wesleyan University, Middletown CT

B.S. Biology 2002-2006
University of Saint Joseph, West Hartford CT

Teaching

Lecturer and Lab Coordinator, Trinity College, CT 2014-present
Evolution of Life laboratory (BIOL 182L)
Cellular Basis of Life laboratory (BIOL 183L)
Genes and Human Disease (BIOL 124)

Adjunct Instructor, University of Saint Joseph, CT
Dept. of Biology, Microbiology lecture and lab 2014
Dept. Biology, Introductory Biology lab 2013
Dept. Biology, Immunology lab 2013

Graduate Student, Wesleyan University
Dept. of Biology, Thesis lab mentoring 2006-2013
Dept. of Biology, Introductory Biology, teaching assistant 2006-2011

Research

Lecture and Lab coordinator, Trinity College 2016-2018
Dept. of Biology
Worked with undergraduate students to purify cellular components of budding yeast in an effort to understand cellular sequestration of nonstandard protein products.

Graduate Student, Wesleyan University 2006-2013
Dept. of Biology, Dr. Michael Weir
Identification and analysis of nonstandard protein translation in budding yeast.

Undergraduate Student, University of Saint Joseph 2004-2006
Dept. of Biology, Dr. Mark Johnson
Identification of Vancomycin resistant bacteria from Connecticut watersheds by RFLP analysis.

Publications

Fournier, C.T., O'Donnell, M.A. The Power of Seeing the Whole Picture: A Preregistration Style Approach in a Remote Introductory Lab. *Advances in Biology Laboratory Education*. 2022. *In press*.

Fournier, C. T., Cherny, J. J., Truncali, K., Robbins-Pianka, A., Lin, M.S., Krizanc, D., Weir, M.P. Amino Termini of Many Yeast Proteins Map to Downstream Start Codons. *Journal of Proteome Research*. 2012. 11(12) 5712-5719.

Lin, M.S., Cherny, J.C., **Fournier, C.T.**, Roth, S.J., Krizanc, D. Weir, M.P. Assessment of MS/MS Search Algorithms with Parent-Protein Profiling. *Journal of Proteome Research*. 2014. 13(4) 1823-1832.

Presentations

Fournier, C.T. The Power of Seeing the Whole Picture: A Preregistration Style Approach in a Remote Introductory Lab, ViABLE Conference. 2021

Fournier, C.T. Protein Translation: Looking Downstream. Biol 403 Seminar, Trinity College. 2014

Fournier, C.T., Cherny, J.J., Weir, M.P. Amino Termini of Many Yeast Proteins Map to Downstream Start Codons. Wesleyan Biophysics Retreat, Poster. 2012

Fournier, C.T., Cherny, J.J., Weir, M.P. Assessment of Protein Translation in Yeast Through Amino Terminal Peptide Identification. American Society for Mass Spectrometry, Poster. 2010

Guest Lectures

Research Frontiers in Molecular Biology Class, Wesleyan University 2009-2010, 2013

Awards

Faculty Research Grant, Trinity College 2016

Travel Stipend, ASMS Conference, Sanibel FL 2010

Committees

Health Professions Advising Committee (HPAC), Trinity College	2016-present
Jury Pool, Trinity College	2018-2020
Psychology Dept., Lecturer search committee	2019
Faculty advisor to Biology Club, Trinity College	2015-present
Biology faculty search committee, Wesleyan University	2012

Outreach

“Tell me about your first-year STEM schedule”, Umoja House, Trinity College	2021
Biology dept. liaison to Amistad Academy student visit	2015-2017
Science through dance graduate participant, Wesleyan University	2006-2007

Technical Experience

Molecular genetics:

PCR, RT-PCR, gel electrophoresis, DNA mutagenesis, chromosomal epitope tagging, sub-cloning, yeast and bacterial transformation.

Proteomics:

Nanospray mass spectrometry, protein purification, Western blot.

Cell culture:

Mammalian cell culture and cytokine stimulation, bacterial and yeast culture, media preparation.

Technology:

Word, Excel, PowerPoint, Zoom, BLAST, Information weight matrices, SEQUEST/OMSSA, and relational databases.

Membership

ABLE (Association for Biology Laboratory Education)

CTABT (Connecticut Association of Biology Teachers)