

Emma H. D'Agostino

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EDUCATION AND RESEARCH

Emory University, Atlanta, GA

2016-Present

Ph.D. Biochemistry

GPA: 3.95/4.0

George W. Woodruff Fellow: full tuition, fees, stipend, and additional fellowship stipend

2016-2021

National Science Foundation Graduate Research Fellow

2016-2021

Emory University NIH Training Grant Recipient

Jan 2017-Jun 2018

Graduate Research Assistant

Advisor: Eric Ortlund, Ph.D.

- Small molecule modulation and structure-function characterization of nuclear receptors

The University of North Carolina at Chapel Hill, Chapel Hill, NC

2012-2016

B.S Biology, with Honors; B.A. Chemistry; with Highest Distinction

GPA: 3.85/4.0

Colonel Robinson Merit Scholarship: full tuition, room and board

Phi Beta Kappa

Undergraduate Research Assistant with Senior Thesis

Advisor: Matthew R. Redinbo, Ph.D.

- Alleviating drug toxicity by inhibiting a bacterial enzyme, β -glucuronidase, of the gut microbiome

PUBLICATIONS

Sawicki GS, Ostrenga J, Petren K, Fink AK, **D'Agostino E**, Strassle C, Schechter MS, Rosenfeld M. Risk Factors for Gaps in Care during Transfer from Pediatric to Adult Cystic Fibrosis Programs in the United States. *Ann Am Thorac Soc*. 2017 Dec 8; Epub ahead of print.

Pollet RM, **D'Agostino EH**, Walton WG, Xu Y, Little MS, Biernat KA, Pellock SJ, Patterson LM, Creekmore BC, Isenberg HN, Bahethi RR, Bhatt AP, Liu J, Gharaibeh RZ, Redinbo MR. An Atlas of β -Glucuronidases in the Human Intestinal Microbiome. *Structure*. 2017 July 5; 25(7):967-977.

Weikum ER, Okafor CD, **D'Agostino EH**, Colucci JK, Ortlund EA. Structural Analysis of the Glucocorticoid Receptor Ligand-Binding Domain in Complex with Triamcinolone Acetonide and a Fragment of the Atypical Coregulator, Small Heterodimer Partner. *Mol. Pharm*. 2017 July 1; 92(1): 12-21.

PATIENT ADVOCACY

Data Safety Monitoring Board

December 2017-Present

Patient Representative

Cystic Fibrosis Foundation Therapeutics (national)

- Independent committee made of physicians, scientists, statisticians and community members to protect patient safety in CFFT-sponsored clinical trials
- Analyze safety of proposed clinical trial protocols and monitor patient safety while trials are ongoing

Research Summary Review Committee

January 2017-Present

Co-chair

Cystic Fibrosis Foundation (national)

- Lead project to obtain lay summaries for CF Research News, a publicly accessible database of cystic fibrosis journal article lay summaries
- Recruit editors from the CF community to ensure that summaries written by CFF-sponsored researchers are understandable to a lay audience, and serve as editor-in-chief for final approval of summaries

Patient Research Advocate

January 2016-June 2017

Cystic Fibrosis Foundation (national)

- Served as a patient voice for research project using CF Patient Registry data to analyze transfer from pediatric to adult care
- Provided feedback during research project and contributed to manuscript published in December 2017

Patient and Family Research Advisory Committee

April 2015-June 2017

Member

Cystic Fibrosis Foundation (national)

- Committee composed of 15 cystic fibrosis patients and family members
- Created Insight CF Research Registry Project, a community-driven research initiative
- Engaged the cystic fibrosis community to collect research questions and create interdisciplinary research teams to investigate the best questions
- Project presented at the North American Cystic Fibrosis Conference in October 2017
- Manuscript in preparation

SELECT TALKS AND POSTERS

Cystic Fibrosis Foundation

Therapeutics Development Network Spring Meeting – Plenary Speaker **April 2018**
The Therapeutics Development Network and the Role of Patients and Family Members

North American Cystic Fibrosis Conference – Poster **October 2017**
Advancing Research that Matters Most to Patients & Families: Preliminary Findings from the Insight CF Registry Research Project

University of North Carolina at Chapel Hill

Keystone Symposium: Gut Microbiota, Metabolic Disorders and Beyond – Poster & Short Talk **April 2016**
The Human GI Microbial GUSome, a Constellation of Drug Targets in the Microbiome

University of North Carolina John K. Koeppel Undergraduate Honors Research Symposium – Talk **April 2016**
The Human GI Microbial GUSome, a Constellation of Drug Targets in the Microbiome

University of North Carolina Biology Undergraduate Research Symposium – Poster **November 2015**
Characterization of Active Site Loop in Bacterial β -Glucuronidase

TEACHING EXPERIENCE & SERVICE

Emory University

- Co-chair, Symposium Planning Committee, BCDB Training Grant **Spring 2017-Summer 2018**
 - Coordinated student speakers for monthly journal club
 - Organized day-long fall career symposium and spring research symposium; invited guest speakers and coordinated small-group meetings, speaker talks, and event publicity
- Teaching Assistant **Fall 2017-Spring 2018**
 - BCDB 501 & 502, Foundations in Biochemistry, Cell, & Developmental Biology
 - Planned and instructed a twice-monthly recitation section for this first-year graduate course in the Emory BCDB Program; enrollment was 10 students
 - Course Directors: Guy Benian and Brian Petrich
- Planning Committee, BCDB Retreat **Fall 2017**
 - Organized a two-day off-campus retreat for approximately 40 students and faculty, including planning activities, meals, and event promotion

University of North Carolina at Chapel Hill

- Supplemental Instructor **Spring 2015**
 - CHEM 430, Introduction to Biological Chemistry (Instructor: B. Hogan)
- Supplemental Instructor **Fall 2013**
 - CHEM 261, Introduction to Organic Chemistry I (Instructor: M. Crimmins)