

# Alex D. Martin

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Adrian, Michigan 49221

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## EDUCATION

Virginia Commonwealth University  
Ph.D. Chemistry

Richmond, Virginia  
August 2009 - April 2015

University of Michigan  
B.S. Chemistry

Ann Arbor, Michigan  
August 2005 - May 2009

## EXPERIENCE

Adrian College

Associate Professor

Adrian, Michigan

August 2024 - present

- Courses Taught: Organic Chemistry 1 and 2 with labs; General Chemistry 1 lab; Interdisciplinary Chemistry Capstone; Advanced Inorganic Chemistry

Concordia University

Associate Professor

Assistant Professor

Ann Arbor, Michigan

July 2021 - July 2024

August 2016 - June 2021

- Courses Taught: Introductory Chemistry; General, Organic, and Biological Chemistry with lab; General Chemistry 2 with lab; Organic Chemistry 1 and 2 with labs; Integrated Science with lab; Science and Humanity; General Physics 2

Eastern Michigan University

Visiting Scholar

Ypsilanti, Michigan

August 2018 - May 2022

- Research Project: "Synthesis of piperidines via an aza-Prins cyclization"

Nazareth College (now Nazareth University)

Visiting Assistant Professor

Rochester, New York

August 2015 - August 2016

- Courses Taught: General Chemistry with lab, Fundamentals of Organic and Biochemistry lab; Inorganic Chemistry with lab; Organic Chemistry 1 and 2

Virginia Commonwealth University

Graduate Research Assistant

Richmond, Virginia

August 2009 - July 2015

- Research Project: "A convergent approach to the continuous synthesis of telmisartan via a Suzuki reaction between two functionalized benzimidazoles"

Graduate Teaching Assistant

August 2009 - December 2013

- Facilitated recitation and laboratories for General Chemistry I and II, and Organic Chemistry

John Tyler Community College (now Brightpoint Community College)

Adjunct Instructor

Chester, Virginia

August 2013 - May 2014

- Courses Taught: College Chemistry 1 with lab

NanoBio Corporation (now BlueWillow Biologics) Ann Arbor, Michigan  
Laboratory Technician May 2007 – July 2009  
▪ Research Project: "Antimicrobial activity of novel nano-emulsion technology"

University of Michigan Ann Arbor, Michigan  
Undergraduate Research Assistant  
Department of Chemistry May 2008 – April 2009  
▪ "Phenolic Resin Surface Restructuring upon Exposure to Humid Air"

Department of Internal Medicine September 2006 – May 2007  
▪ Research Project: "Interaction between autophagy and autoimmune immunoglobulins in diabetic complications"

### PROFESSIONAL AFFILIATIONS

American Chemical Society 2015 – present  
Huron Valley Local Section Executive Committee  
Chair 2022, 2025  
Chair-Elect 2021, 2024  
Past Chair 2023  
Alternate Councilor 2019 – 2020  
Central Region  
Steering Committee 2025  
CERM Awards Chair 2022  
CERM Poster Symposium Organizer 2022  
Rochester Local Section Executive Committee  
Member at-large 2016  
  
Midwestern Association of Chemistry Teachers in Liberal Arts Colleges 2024 – present  
  
Lenawee Intermediate School District  
Biochemical Technology Advisory Committee 2025 – present

### PATENT

BF Gupton, A Martin, A Siamaki, K Belecki. "A Convergent Approach to the Total Synthesis of Telmisartan via a Suzuki Cross-Coupling Reaction". US Patent 10,007,242 B2. September 18, 2018.

### PUBLICATIONS

AD Martin, AR Siamaki, K Belecki, BF Gupton. "A Flow-based Synthesis of Telmisartan". Journal of Flow Chemistry. 2015. 5(3):145-7.

AD Martin, AR Siamaki, K Belecki, BF Gupton. "A Convergent Approach to the Total Synthesis of Telmisartan via a Suzuki Cross-Coupling Reaction between Two Functionalized Benzimidazoles". Journal of Organic Chemistry. 2015. 80:1915-9.

J Pannu, A McCarthy, A Martin, T Hamouda, S Ciotti, L Ma, J Sutcliffe, J Baker. "In Vitro Antibacterial Activity of NB-003 against *Propionibacterium acnes*". *Antimicrobial Agents and Chemotherapy*. 2011. 55:4211-7.

J Pannu, A McCarthy, A Martin, T Hamouda, S Ciotti, A Fothergill, J Sutcliffe. "NB-002, a Novel Nanoemulsion with Broad Antifungal Activity against Dermatophytes, Other Filamentous Fungi and *Candida albicans*". *Antimicrobial Agents and Chemotherapy*. 2009. 53:3273-9.

X Lu, J Han, N Shephard, S Rhodes, AD Martin, D Li, G Xue, Z Chen. "Phenolic Resin Surface Restructuring upon Exposure to Humid Air: A Sum Frequency Generation Vibrational Spectroscopy Study". *Journal of Physical Chemistry B*. 2009. 113(39):12944-51.

## **PRESENTATIONS**

A Martin. "Synthesis of Piperidines via an Aza-Prins Cyclization". Concordia Faculty Scholarship Week. Concordia University. Ann Arbor, Michigan. October 28, 2018.

A Martin. "Applications of Continuous Chemical Processing in Pharmaceuticals". Department Seminar. Nazareth College. Rochester, New York. November 6, 2015.

A Martin. "A Convergent Approach to the Continuous Synthesis of Telmisartan". Department Seminar. Virginia Commonwealth University. Richmond, Virginia. April 29, 2015.

A Martin. "Multienzymatic Processes: Highly Selective Biocatalysts in One-Pot". Department Seminar. Virginia Commonwealth University. Richmond, Virginia. August 30, 2011.

## **POSTERS**

L Kolopajlo, P Dobrowolski, J Sullivan, M Lynam, Y Sevryugina, T Brewer, W Tornquist, A Martin, D Roberts, A Schwab, A Cobos, J Gary. Outreach in the Huron Valley Local Section. Fall 2024 National Meeting of the American Chemical Society. Denver, CO. August 2024

E Kallner, A Martin, L Shultz. Synthesis of Substituted S-Benzylisothiourea Compounds: Developing a Library of Potential MreB Inhibitors. Concordia Student Scholar Expo. Ann Arbor, MI. May 1, 2024.

S Dorn, AD Martin. Synthesis of Phenanthridine: Establishing a Proof of Concept for New Approach to the Preparation of Benzonaphthyridines. 53<sup>rd</sup> Central Regional Meeting of the American Chemical Society. Dearborn, MI. June 22, 2023.

R Turner, AD Martin. Synthesis of Dibenzoxepinone Precursor of Doxepin from Salicylic Acid. 52<sup>nd</sup> Central Regional Meeting of the American Chemical Society. Ypsilanti, MI. June 8, 2022.

H Vaughan, AD Martin, H Lindsay. "Microwave-Assisted Aza-Prins Reactions of Unactivated Imines". Abstract accepted to Spring 2020 National Meeting of the American Chemical Society. Philadelphia, Pennsylvania. (Canceled due to COVID)

J England, N Palushaj, L Palushaj, C Masell, AD Martin. "Synthesis of Functionalized Dibenzimidazole Precursor of Telmisartan". 48th Central Regional Meeting of the American Chemical Society. Dearborn, Michigan. June 7, 2017.

JD Murray, E Stryker, K Bronson, JH Murray, AD Martin. "Two-step Synthesis of Benzo[2,7]naphthyridines: A Turnkey Approach for the Preparation of an Anti-tumor Compound Library". Nazareth College Creative Activity and Research Showcase. Rochester, New York. April 8, 2016.

AD Martin, AR Siamaki, BF Gupton. "Synthesis of Dibenzimidazole Precursor of Telmisartan via a Suzuki Cross-Coupling Reaction". 63rd Southeast Regional Meeting of the American Chemical Society. Richmond, Virginia. October 26, 2011.