

William T Mills IV

Email: william.mills@jhmi.edu

PhD Candidate at the Johns Hopkins University School of Medicine

Education

Johns Hopkins University School of Medicine

Baltimore, MD | 2017-Present

PhD Candidate, Department of Biological Chemistry

Advisor: Mollie K Meffert, MD, PhD

University of Virginia

Charlottesville, VA | 2013-2017

Bachelor of Science in Chemistry, Specialization in Biochemistry (awarded with Distinction)

American Chemical Society (ACS) Certification

American Society for Biochemistry and Molecular Biology (ASBMB) Certification with Distinction

Research Experience

Johns Hopkins University School of Medicine

Baltimore, MD | 2017-Present

Graduate Research Assistant

Advisor: Mollie K Meffert, MD, PhD

United States Food and Drug Administration

White Oak, MD | Summer 2016

ORISE Fellow, Center for Biologics Evaluation and Research

Advisor: Gerardo Kaplan, PhD

University of Virginia

Charlottesville, VA | 2015-2017

Undergraduate Research Assistant

Advisor: Anthony J Spano, PhD

Teaching & Advising

Johns Hopkins University School of Medicine *Baltimore, MD*

Teaching Academy

Certificate of Completion

in progress

ME.200.650 : Genes to Society - Nervous System and Special Senses

Co-instructor for lesson on translational neuroscience

Spring 2019

University of Virginia *Charlottesville, VA*

Peer Teacher

BIOL 2100: Introduction to Biology Laboratory: Cell Biology and Genetics

Fall 2016

BIOL 2030: Introductory Biology Laboratory I

Fall 2015

Albemarle High School *Charlottesville, VA*

Tutor

Advancement via Individual Determination (AVID) Program

Fall 2015

University of Virginia *Charlottesville, VA*

Peer Advisor

University Peer Advising Link (ULink)

Fall 2015

Publications

Oldach LM, Gorshkov K, **Mills WT, IV**, Zhang J, and Meffert MK (2018). A biosensor for MAPK-dependent Lin28 signaling. *Mol Biol Cell*, 29(10): 1157-1167.

DOI: [10.1091/mbc.E17-08-0500](https://doi.org/10.1091/mbc.E17-08-0500)

Subramanian M, Paranjpe M, Timmerman CK, **Mills WT, IV**, and Meffert MK (2019). Growth-suppressor miRNA dysfunction mediates synaptic overgrowth and behavioral deficits in Fragile X Syndrome. Manuscript in preparation.

Presentations

Graduate

Mills WT, IV and Meffert MK (2019). Using miRNA- target chimeras to study post-transcriptional gene regulation in the mammalian CNS. Poster presented at the 2019 DC Metro Area Chapter of the Society for Neuroscience Annual Meeting. (College Park, MD)

Mills WT, IV and Meffert MK (2019). Using miRNA-target chimeras to study post-transcriptional gene regulation in the mammalian CNS. Poster presented at the Department of Biological Chemistry Recruitment Event. (Baltimore, MD)

Mills WT, IV and Meffert MK (2018). Use of miRNA-target chimeras in the study of learning, memory and brain disorders. The Department of Biological Chemistry Annual Retreat. (Baltimore, MD)

Undergraduate

Brodie KV, Hentzen CE, Klein RJ, **Mills WT, IV**, Nishath T, Zhang MZ, Columbus L, and Price C (2016). Lysine 99: A critical residue for catalytic activity in aspartate aminotransferase from *Thermatoga maritima*. Poster presented at the conclusion of CHEM 4411/4421 in the Chemistry Building at the University of Virginia. (Charlottesville, VA)

Awards & Honors

Undergraduate

Gilbert J. Sullivan Scholarship

2015-2017

National Society of Collegiate Scholars

2014-2017

Dean's List

2013-2016

Intermediate Honors

2015

Organizational Activities

Johns Hopkins University School of Medicine *Baltimore, MD*

Department Journal Club Planning Committee - Department of Biological Chemistry

2018 - present

Department Retreat Planning Committee - Department of Biological Chemistry

2019

Research Funding

Undergraduate

Small Research and Travel Grant (College of Arts and Sciences)

Fall 2016

Small Research and Travel Grant (College of Arts and Sciences)

Spring 2016

Raven Society Fellowship (The Raven Society)

2016

Semester Scholars Award (College Council)

Spring 2016