William T Mills IV

Email: william.mills@jhmi.edu

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

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*

Professional Associations

Society for Neuroscience D.C. Metro Area Chapter (SfN DCMA), Member	*2019-present*
American Society for Biochemistry and Molecular Biology (ASBMB), Student Member	*2017-2018*

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*