

KENNEDY N. GOLDSBOROUGH

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EDUCATION:

Virginia Commonwealth University, Richmond, VA August 2019 – Present
Ph.D. in Biomedical Sciences (BSDP)

- Department of Pharmacology and Toxicology
- Southern Regional Education Board (SREB) Doctoral Scholar ('19-'22)
- NIH IGNITE KUH Training Grant Awardee ('21-'22; '22-'23)

Virginia Commonwealth University, Richmond, VA July 2018 – June 2019
VCU Post-Baccalaureate Research Education Program (PREP) Scholar
Intensive one-year research program to build critical thinking skills and experience graduate courses in preparation for a PhD program. Funded by an NIH grant to VCU.

Hampton University, Hampton, VA August 2014 – May 2018
B.S. in Biochemistry

- *cum laude*, Departmental Honors
- NIH Maximizing Access to Research Careers (MARC) Scholar
- Freddye T Davy Honors College Graduate
- Beta Kappa Chi Scientific Honors Society

RESEARCH EXPERIENCE:

Virginia Commonwealth University, Richmond, VA August 2019 – Present
Graduate Assistant (Department of Pharmacology and Toxicology)

- Dissertation Title: Targeting Monoacylglycerol Lipase to Reduce Chronic Pain in a Humanized Mouse Model of SCD ♦ Mentor: Aron Lichtman, PhD, Professor and Associate Dean of Research and Graduate Studies; Co-Mentor: Joyce Lloyd, PhD, Professor and Associate Dean of the Graduate School

Virginia Commonwealth University, Richmond, VA July 2018 – June 2019
Research Associate (Post-baccalaureate Research Education Program)

- Project Title: Diacylglycerol Lipase Inhibitors do not alter the Tumor Suppressive Capacity of Paclitaxel in *in vitro* Models of Non-Small Cell Lung Cancer ♦ Mentor: Aron Lichtman, PhD, Professor and Associate Dean of Research and Graduate Studies

Harvard Medical School and Boston's Children's Hospital, Boston, MA May 2017 – August 2017
Summer Researcher (Summer Honors Undergraduate Research Program)

- Project Title: Exploring Mitochondrial Protein Homeostasis in Peripheral Axons ♦ Mentor: Thomas Schwarz, PhD, Professor of Neurobiology

Johns Hopkins School of Medicine, Baltimore, MD May 2016 – August 2016
Summer Researcher (Summer Internship Program – Basic Science Institute)

- Project Title: Ingenol-B as a Latency Reversing Agent and its Effect on CD8 Viral Suppression *in vitro* ♦ Mentor: Joel Blankson, MD-PhD, Associate Professor of Immunology

Hampton University Skin of Color Research Institute, Hampton, VA September 2015 – May 2017
Undergraduate Researcher (Maximizing Access to Research Careers (MARC) Program)

- Project Title: Prostaglandin D2 (PGD2) Enhances Testosterone Metabolism via Reactive Oxygen Species-Mediated Altered Redox Potential in Keratinocytes ♦ Mentor: Joanne Chan, PhD, Director of the Skin of Color Research Institute

LEADERSHIP ACTIVITIES:

VCU Black Graduate Student Association April 2021 – May 2022

- Secretary

VCU Pharmacology/Toxicology Student Organization May 2020 – May 2022

<ul style="list-style-type: none"> • President (May 2021 – Present) • Vice President (May 2020 – May 2021) 	
Neuroscience Interest Group at VCU	August 2019 – July 2021
<ul style="list-style-type: none"> • Social Media/Public Relations Chair 	
BSDP Student Advisory Committee	August 2019 – Present
<ul style="list-style-type: none"> • Member 	
Hampton University Department of Chemistry and Biochemistry	August 2017 – May 2018
<ul style="list-style-type: none"> • Teaching Assistant: Biochemistry I and II (CHE 303 and 304) 	
Hampton University Chapter of Beta Kappa Chi Scientific Honor Society	August 2016 – May 2018
<ul style="list-style-type: none"> • Secretary and Tutoring Coordinator (2017-2018) • General Member (2016-2018) 	
Hampton University Chemistry Club	March 2015 – May 2018
<ul style="list-style-type: none"> • President (2017-2018) • Secretary (2015-2017) 	
Hampton University Student Recruitment Team	March 2015 – May 2018
<ul style="list-style-type: none"> • Chairperson of Spirit and Special Events Committee (2017-2018) • Chairperson of Community Service Committee (2016-2017) 	
Freddye T. Davy Honors College (Hampton University)	April 2015 – May 2018
<ul style="list-style-type: none"> • Dubois Conference Chairperson (2017-2018) • General Member (2015-2017) 	
Henrico County Police Athletic League Volunteer	August 2009 – Present
<ul style="list-style-type: none"> • Executive Board Member (2018 – Present) • Founder and President of HPAL Alumni Association (2018 – Present) • President of the HPAL Youth Leadership Council (2012-2014) • Vice President of HPAL Youth Leadership Council (2010-2012) 	

SERVICE:

Annual Biomedical Research Conference for Minoritized Scientists (ABRCMS) 2022	November 2022
<ul style="list-style-type: none"> • Judge 	
VCU Diversity in Graduate Education	October 2022
<ul style="list-style-type: none"> • Student Panelist 	
Initiative for Maximizing Student Development (IMSD) at VCU	May 2021 - Present
<ul style="list-style-type: none"> • Research Mentor for Undergraduate Scholars (2) 	
International Cannabinoid Research Society (ICRS) 2021	June 2021
<ul style="list-style-type: none"> • Oral Session Moderator (Cannabinoids and Reward/Addiction) 	
VCU Biomedical Sciences Doctoral Portal (BSDP)	January 2021 - Present
<ul style="list-style-type: none"> • Student Recruiter (2020-2021, 2021-2022) • Student Panelist (2022) 	
Delta Sigma Theta Sorority, Inc. (Petersburg (VA) Alumnae Chapter)	May 2021
<ul style="list-style-type: none"> • PSAT/SAT Prep Workshop Facilitator 	
The Savvy Scientist, LLC (Tutoring and Professional Services)	January 2021 – Present
<ul style="list-style-type: none"> • Founder and CEO 	
Senior Associate Dean for Diversity, Equity and Inclusion Search Committee	July 2020 – May 2021
<ul style="list-style-type: none"> • Graduate Student Representative • Town Hall Moderator (February 2021) 	
Hampton University Biology Department Academic Success Panel	November 2020
<ul style="list-style-type: none"> • Alumni Panelist 	
Skype a Scientist	June 2020
<ul style="list-style-type: none"> • Middle School Science Class 	
Student Health Insurance Working Group	April 2020 - Present
<ul style="list-style-type: none"> • Member (Student Representative) 	
Hampton University (PREP, PhD, and MD-PhD Recruiting Trip)	November 2019
<ul style="list-style-type: none"> • Student Representative (PREP, PhD) 	

PRESENTATIONS:

- American Society for Hematology (ASH) Annual Meeting 2022
 - Poster Abstract Accepted
- Annual Biomedical Research Conference for Minoritized Scientists (ABRCMS) 2022
 - Oral Abstract Accepted
- International Cannabinoid Research Society (ICRS) 2022
 - Oral Presentation Title: Monoacylglycerol Lipase Inhibition: A Multi-modal Approach to Treat Chronic Pain in the Berkeley Sickle Cell Mouse Model
- Global Congress on Sickle Cell Disease 2022
 - Oral Presentation Title: Inhibition of the Endocannabinoid Regulating Enzyme Monoacylglycerol Lipase Ameliorates the Hyper-nociceptive Phenotype in the Berkeley Mouse Model of Sickle Cell Disease
- 16th Annual Sickle Cell Disease Research and Educational Symposium and 44th National Sickle Cell Disease Scientific Meeting 2022
 - Oral Presentation Title: Monoacylglycerol Lipase Inhibition Ameliorates the Hyper-nociceptive Phenotype in Sickle Mice
- American Society for Hematology (ASH) Annual Meeting 2021
 - Poster Presentation Title: Monoacylglycerol Lipase Inhibition: A Strategy to Treat Chronic Pain a Humanized Sickle Cell Mouse Model
- International Cannabinoid Research Society (ICRS) 2021
 - Poster Presentation Title: Targeting Monoacylglycerol Lipase Inhibition to Reduce Chronic Pain a Humanized Mouse Model of Sickle Cell Disease
- International Association for the Study of Pain (IASP) 2021 World Congress
 - Poster Presentation Title: Monoacylglycerol Lipase Inhibition Reduces Chronic Nociception in BERK Mice
- 15th Annual Sickle Cell Disease Research and Educational Symposium and 44th National Sickle Cell Disease Scientific Meeting 2021
 - Invited Talk, (Category: Top Abstracts) Oral Presentation Title: Inhibition of Monoacylglycerol Lipase Reduces Chronic Nociception in Berkeley Sickle Mice
- Translational Research Initiative in Pain and Neuropathy (TRIPN) at VCU November Meeting 2019
 - Invited Talk, Oral Presentation Title: Preclinical Models of Sickle Cell Disease
- Carolina Cannabinoid Collaborative 2019
 - Poster Presentation Title: *In Vitro* Evaluation of Diacylglycerol Lipase Inhibition Effects on the Tumor Suppressive Capacity of Paclitaxel
- VCU PREP Symposium 2019
 - Oral Presentation Title: Diacylglycerol Lipase Inhibitors do not alter the Tumor Suppressive Capacity of Paclitaxel in *in vitro* Models of Non-Small Cell Lung Cancer
- Mid-Atlantic PREP and MSD Research Symposium (MAPRS) 2019
 - Poster Presentation Title: Diacylglycerol Lipase Inhibitors do not alter the Tumor Suppressive Capacity of Paclitaxel in *in vitro* Models of Non-Small Cell Lung Cancer
- Annual Biomedical Research Conference for Minority Students 2018
 - Poster Presentation Title: Combining *in vivo* Sensory Nerve Conduction with Nociceptive Mouse Assays to Investigate Chemotherapy-Induced Peripheral Neuropathy
- Annual Biomedical Research Conference for Minority Students 2017
 - Oral Presentation Title: Exploring Mitochondrial Protein Homeostasis in Peripheral Axons
- Vanderbilt University Enhancing Diversity in Graduate Education (EDGE) Program 2017

- Oral Presentation Title: Exploring Mitochondrial Protein Homeostasis in Peripheral Axons
- Leadership Alliance National Symposium 2017
 - Poster Presentation Title: Exploring Mitochondrial Protein Homeostasis in Peripheral Axons
- Virginia Council of Honors Colleges 2017 Spring Honors Conference
 - Oral Presentation Title: Searching for a Cure: Ingenol-B as a Potential Drug Therapy for HIV
- Annual Biomedical Research Conference for Minority Students (ABRCMS) 2016
 - Poster Presentation Title: Ingenol-B as a Latency Reversing Agent and its Effect of CD8 Viral Suppression Efficiency in vitro
- Johns Hopkins C.A.R.E.S. Symposium 2016
 - Poster Presentation Title: Ingenol-B as a Latency Reversing Agent and its Effect of CD8 Viral Suppression Efficiency in vitro
- Hampton University Black Family Conference 2016
 - Poster Presentation Title: Prostaglandin D2 (PGD2) Enhances Testosterone Metabolism Via Reactive Oxygen Species (ROS)-Mediated Altered Redox Potential in Keratinocytes

AWARDS AND HONORS:

- ABRCMS Graduate Student Travel Award (2022)
- ASH Abstract Achievement Award (2021)
- KUH IGNITE Training Grant Recipient (2021)
- International Cannabinoid Research Society Trainee Award (2021)
- Southern Regional Education Board (SREB) Doctoral Scholars Fellowship Recipient (2019)
- Hampton University Graduation Departmental Award: Department of Chemistry and Biochemistry (2018)
- American Chemical Society (Hampton Roads Chapter) Biochemistry Award (2018)
- Annual Biomedical Research Conference for Minority Students Oral Presentation Award (2017)
- NIH MARC Undergraduate-Student Training in Academic Research Scholarship Recipient (2016)
- 1st Place Poster Presentation Skin of Color Research Institute's From Bench to Bedside Symposium (2015)
- Hampton University Outstanding Chemistry Major (2014, 2016)
- Hampton University Presidential Merit Scholarship (2014-2018)

MEMBERSHIP:

- American Society for Pharmacology and Experimental Therapeutics (ASPET)
- Southern Regional Education Board (SREB) Doctoral Scholars Program
- American Association for the Advancement of Science (AAAS)
- International Cannabinoid Research Society (ICRS)
- Carolina Cannabinoid Collaborative (CCC)
- VCU Initiative for Maximizing Student Diversity (IMSD)

PUBLICATIONS:

- **Goldsborough K**, Muchhala K, Sonenklar M, Adu-Gyamfi A, Herz S, Jessup D, Mckiver BD, Moncayo RK, Gupta K, Smith WR, Lloyd JA, Damaj IM, Akbarali H, Lichtman AH. Berkeley SCD Mouse Pain Model: Age- and Sex-dependent Phenotypes (*in preparation*)
- Donvito G, Mischel R, **Goldsborough K**, McLane V, Kyte SL, Patel N, Meade JA, Damaj IM, Ogasawara D, Gewirtz DA, Hauser KF, Akbarali H, Hsu KL, Cravatt BF, Lichtman AH. Investigation of the Role of Diacylglycerol Lipases in a mouse model of Chemotherapy-Induced Peripheral Neuropathy (*in preparation*)
- Mantel A, McDonald JT, **Goldsborough K**, Harvey VM, Chan J. Prostaglandin D2 Uses Components of ROS Signaling to Enhance Testosterone Production in Keratinocytes. J Invest Dermatol Symp Proc. 2017 Oct;18(2):S81-S84.
- Kwaa AK, **Goldsborough K**, Walker-Sperling VE, Pianowski LF, Gama L, Blankson JN. The effect of Ingenol-B on the suppressive capacity of elite suppressor HIV-specific CD8+ T cells. PLoS One. 2017 May 3;12(5):e0174516.