

Stanley Andrisse, Ph.D., M.B.A.

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Summary

My research focuses on understanding mechanisms of type 2 diabetes, obesity, and metabolic diseases. I have expertise in glucose and lipid metabolism, insulin signaling, and reproductive endocrinology. I have been trained to solve problems, scientifically (Ph.D.), financially, and organizationally (M.B.A.) and can communicate effectively to empower, inspire and motivate others (nonprofit executive and bestselling author).

Education & Experience

- 2021 Visiting Researcher, Endocrinology, Imperial College London, London, UK
Chair: Professor Waljit Dhillon
Performed research from June-August 2021 investigating insulin signaling in adipose tissue samples from participants in the BAMBINI: Bariatric surgery vs medical care for obesity and polycystic ovarian syndrome related infertility, <https://www.isrctn.com/ISRCTN16668711>.
Delivered a DEI training to over 120 students, faculty, and leaders at Imperial titled “Black Lives Matter in Science and Medicine”, <https://www.imperial.ac.uk/news/227973/black-lives-matter-science-medicine/>
Coauthored a meeting abstract, “PSUN123 Increased Expression of Insulin Signaling Intermediates After Six-Months Of Medical Care In Women With Obesity And Polycystic Ovary Syndrome”
- 2018- Sponsored University Associate, Endocrinology, Georgetown University Medical Center, Washington, DC
Sponsor: Dr. Kathryn Sandberg, Professor and Vice Chair for Research, Department of Medicine
Performed research in the laboratory of collaborator and coauthor, Carolyn Ecelbarger, during the period of not having access to a physical laboratory at Howard University (from May 2018 to August 2019).
PI on an active IRB protocol titled “Impact of HA vs. Obesity on NAFLD” under the GHUCCTS IRB.
- 2017- Assistant Professor, Physiology & Biophysics, Howard University College of Medicine, Washington, DC
Chair: Kebreten Manaye, Ph.D.
Trained 20+ underrepresented minority students, most now MDs and PhDs (completed or in-progress).
Awarded an NIH R01 and NIH T34.
Published multiple articles (research articles, reviews, and editorials; see publications below)
- 2017-2019 Adjunct Assistant Professor, Pediatric Endocrinology, Johns Hopkins School of Medicine, Baltimore, MD
- 2014-2017 *Postdoctoral Fellow*, Pediatric Endocrinology, Johns Hopkins School of Medicine, Baltimore, MD
Mentor: Sheng Wu, Ph.D.
Developed a new disease mouse model of lean PCOS.
Expert in metabolism, physiology, endocrinology, & molecular techniques.
Published in high impact journals. **Awarded** NIH funding for NIH Loan Repayment Program in Contraception and infertility research and a Provost Fellowship.
Communicated my findings at 6 national conferences to lay and science audiences.
Experienced in protein processing, genetic manipulations, primary cell culture & animal models
- 2010-2014 Ph.D., Physiology- Muscle Metabolism, Saint Louis University, Saint Louis, MO
Mentor: Jonathan Fisher, Ph.D.
Managed 10 undergraduates in performing biomedical research.
Published 3 first author and 1 coauthor research manuscripts.
Awarded 5 merit-based travel awards and 2 external fellowship awards.
- 2006-2008 Masters of Business Administration (MBA), Finance, Lindenwood University, St. Charles, MO
- 2003-2006 Bachelors of Science, Biology – Pre-Health, Lindenwood University, St. Charles, MO

Teaching Experience

- 2017-2024 *Assistant Professor*, Howard University College of Medicine
1. *Structure and Function*, Department of Physiology
 - This course was for 1st year medical students. I facilitated numerous two-hour physiology labs and small groups. I taught 3 hours (2020-23) and 9 hours (2023-present) of lectures per year on endocrinology and metabolism.
 - Co-Coordinator (2020-22): I co-managed the spring portion of the course (SF3) for roughly 120 students and 10+ faculty.

2. *Basic Medical Physiology*, College of Dentistry
 - This course was for 1st year dental students. From 2019-present, I have lectured 6 hours per year on endocrinology and metabolism.
3. *Homeostasis*, Department of Physiology
 - This course was for 1st year physiology PhD students. In various years, I lectured 4 hours (2021-22) and 11 hours (2023-present) per year on endocrinology and metabolism.
4. *General Physiology*, College of Nursing & Allied Health Sciences
 - This course was for allied health students. I lectured 11 hours (in 2019) on endocrinology and metabolism.
5. *Organ Systems 4 (Endocrine and Renal)*, College of Medicine
 - Coordinator (2022-present): I managed the fall portion of the course (which included endocrine and renal) for roughly 120 students and 10+ clinical and basic science faculty. The exams were administered via the National Board of Medical Examiners (NBME).
 - This course was for 2nd year medical students. From 2022-present, I lectured 2 hours per year on endocrinology and metabolism.
6. *PHAS 607 Human Physiology*, College of Nursing & Allied Health Sciences
 - This course was for physician assistant (PA) students. I lectured 4 hours (in 2023) on endocrinology and metabolism.
7. *PHSI 252-01, Cellular and Molecular Physiology*, College of Medicine
 - This course was for 1st year PhD students in the Department of Physiology. I lectured 6 hours (2024) per year on the following topics: Cell adhesion proteins and cell junctions, Extracellular matrix, Cytoskeleton, and Intracellular vesicular traffic.

2016-2019

Guest Instructor & Adjunct Faculty, Johns Hopkins University School of Medicine

1. *Organ Physiology*, Department of Physiology
 - This course was for 1st year PhD students. I taught 2 one-hour lectures focusing on the overall endocrine effect of insulin and glucagon on the major metabolic pathways.
 - I incorporated a pre- and post-lecture quiz to gauge the knowledge attainment. I have these data from the two years I taught this course.
2. *Foundations in Medicine, Metabolism*: School of Medicine
 - This course was for 1st year medical students and was a 2-week block in the first semester.
 - Team taught with 10 professors. I was the only postdoctoral fellow. The rest were faculty.
 - Active learning group instructor for first year medical students. I also designed the exam questions.
3. *Incarceration Health Justice*, School of Medicine
 - This course introduced the health injustices of incarceration to 1st year medical students.

2011-2014

Guest Lecturer, Saint Louis University (Course and lecture)

1. Human Physiology BIOL 260 (Neurophysiology)
2. Comparative Anatomy BIOL 342 (Neurophysiology and anatomy)
3. General Physiology Lab BIOL 347 (Glucose metabolism)
4. Comparative Animal Physiology BIOL 440 (Endocrinology)
5. Human Cellular Physiology BIOL 454 (Respiratory Physiology)
 - Once my advanced lecturing skills & style become known, the requests for me as a guest lecturer become more frequent. I performed over 10 guest lectures as a PhD student

2011-2014

Students and Teachers as Research Scientists, Saint Louis University

- Mentored six high school students in diabetes related research.

2010-2011

Graduate Teaching Assistant, Saint Louis University

- Responsible for the preparation, organization, and execution of teaching general biology lab.
- Taught an upper-level undergraduate general physiology lab and lecture.
- Experiments: Glucose control in mice, cardiac function, kidney function, muscle reflexes, and more.

Publications (Prior to Howard University Faculty Appointment)

1. **Andrisse S.**, Fisher J.S. (2012) AMP-Activated Protein Kinase. In: Mooren F.C. (eds) Encyclopedia of Exercise Medicine in Health and Disease. Springer, Berlin, Heidelberg. [review] https://doi.org/10.1007/978-3-540-29807-6_264
2. **Andrisse S**, Patel GD, Chen JE, Webber AM, Spears LD, Koehler RM, Robinson-Hill RM, Ching JK, Jeong I, Fisher JS. ATM and GLUT1-S490 phosphorylation regulate GLUT1 mediated transport in skeletal muscle. *PLOS One* (4.5 impact factor, IF), 2013 Jun 11;8(6): e66027. <https://doi.org/10.1371/journal.pone.0066027>

3. Ching JK, Spears LD, Armon JL, Renth AL, **Andrissse S**, Collins IV RL, and Fisher JS. Impaired insulin-stimulated glu-cose transport in ATM-deficient skeletal muscle. *Applied Physiology, Nutrition, and Metabolism* (2.23 IF), 2013 June; 38(6): 589-96. <https://doi.org/10.1139/apnm-2012-0175>
4. **Andrissse S**, Koehler RM, Chen JE, Patel GD, Vallurupalli VR, Ratliff BA, Warren DE, Fisher JS. Role of GLUT1 in regulation of reactive oxygen species. *Redox Biology* (11.8 IF), 2014 Mar 25;2:764-71. <https://doi.org/10.1016/j.redox.2014.03.004>
5. Ma. Y, **Andrissse S**, Chen Y, Childress S. Ping X, Wang Z, Jones D, Ko C, Divall S, Wu S. Androgen receptor in the ovary theca cells plays a critical role in androgen-induced reproductive dysfunction. *Endocrinology* (4.7 IF), 2017 Jan 1;158(1):98-108. <https://doi.org/10.1210/en.2016-1608>
6. **Andrissse S**, Childress S, Ma Y, Billings K, Chen Y, Xue P, Wolfe A, Wu S. Low dose dihydrotestosterone drives meta-bolic Dysfunction via cytosolic and nuclear hepatic androgen receptor mechanisms in female mice. *Endocrinology* (4.7 IF), 2017 Mar 1; 158(3): 531-544. <https://doi.org/10.1210/en.2016-1553>

Publications

Start of Tenure-track Assistant Professor (November 1, 2017)

Data Driven Publications

1. **Andrissse, S.**, Garcia-Reyes, Y., Pyle, L., Kelsey, M. M., Nadeau, K. J., & Cree-Green, M. Racial and Ethnic Differences in Metabolic Disease in Adolescents With Obesity and Polycystic Ovary Syndrome. *Journal of the Endocrine Society*, 2021 Feb 2. 5(4), bvab008. <https://doi.org/10.1210/jendso/bvab008>
2. Seidu, T., McWhorter, P., Myer, J., Alamgir, R., Eregha, N., Bogle, D., Lofton, T., Ecelbarger, C., & **Andrissse, S**. DHT causes liver steatosis via transcriptional regulation of SCAP in normal weight female mice. *The Journal of Endocrinology* (4.3 IF), 2021 Jun 28. 250(2), 49–65. <https://doi.org/10.1530/JOE-21-0040>
3. **Andrissse, S.**, Feng, M., Wang, Z., Awe, O., Yu, L., Zhang, H., Bi, S., Wang, H., Li, L., Joseph, S., Heller, N., Mauvais-Jarvis, F., William Wong, G., Segars, J., Wolfe, A., Divall, S., Ahima, R., & Wu, S. (2021). Androgen-induced insulin resistance is ameliorated by deletion of hepatic androgen receptors in females. *FASEB journal : official publication of the Federation of American Societies for Experimental Biology* (5.2 IF), 2021 Oct. 35(10), e21921. <https://doi.org/10.1096/fj.202100961R>
4. Osei-Ntansah A, Oliver T, Lofton T, Falzarano C, Carr K, Huang R, Wilson A, Damaser E, Harvey G, Rahman MA, **Andrissse S**. Liver Androgen Receptor Knockout Improved High-fat Diet Induced Glucose Dysregulation in Female Mice But Not Male Mice. *J Endocr Soc*. 2024 Feb 9;8(4):bvae021. doi: 10.1210/jendso/bvae021. PMID: 38425436; PMCID: PMC10904101. <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC10904101/>

Creative works

5. **Andrissse, S.** The System Is Why There Are Not More Like Me. *Med Cell Press* (17), 2021 Jan 15. Vol 2, Issue 1, Page 4-5. <https://pubmed.ncbi.nlm.nih.gov/35590132/>
6. **Andrissse, S.** An often-overlooked population has much to offer science. *Science (Blog)*, 2021 Oct. <https://www.science.org/content/blog-post/often-overlooked-population-has-much-offer-science>
7. **Andrissse S.** We demand a seat at the table. *Nature reviews. Endocrinology* (47.56), 2022 Mar. 18(3), 129–130. <https://doi.org/10.1038/s41574-021-00623-w>
8. Mays A, Byars-Winston A, Hinton A Jr, Marshall AG, Kirabo A, August A, Marlin BJ, Riggs B, Tolbert B, Wanjalla C, Womack C, Evans CS, Barnes C, Starbird C, Williams C, Reynolds C, Taabazuing C, Cameron CE, Murray DD, Applewhite D, Morton DJ, Lee D, Williams DW, Lynch D, Brady D, Lynch E, Rutaganira FUN, Silva GM, Shuler H, Saboor IA, Davis J, Dzirasa K, Hammonds-Odie L, Reyes L, Sweetwyne MT, McReynolds MR, Johnson MDL, Smith NA, Pittman N, Ajjola OA, Smith Q, Robinson RAS, Lewis SC, Murray SA, Black S, Neal SE, **Andrissse S**, Townsend S, Damo SM, Griffith TN, Lambert WM, Clemons WM Jr. Juneteenth in STEMM and the barriers to equitable science. *Cell* (64.5 IF). 2023 June 8;186(12):2510-2517. doi: 10.1016/j.cell.2023.05.016. Epub 2023 June 8. PMID: 37295396. <https://pubmed.ncbi.nlm.nih.gov/37295396/>
9. Rebecca L. Fix, Idia B. Thurston, Renee M. Johnson, **Stanley Andrissse**. Promoting anti-racism in the legal system: An application of the STYLE framework. *Front. Psychol. Sec. Forensic and Legal Psychology*. Volume 14 - 2023 | doi: 10.3389/fpsyg.2023.1061637 <https://www.frontiersin.org/articles/10.3389/fpsyg.2023.1061637/abstract>
10. Milner IV, H. R., Bennett, J., **Andrissse, S.**, Badertscher, E., Lane-Bonds, D., Murray, I., ... Steib, S. (2024). Addressing Opportunity Gaps in Higher Education in Prison Programs. *The New Educator*, 1–16. <https://doi.org/10.1080/1547688X.2024.2416735>

Data Driven Publications Not Counted by my Departmental and College APT Committees

11. **Andrissse S**, Billings K, Xue P, and Wu S. Insulin signaling displayed a differential tissue specific response to low dose DHT in female mice. *AJP Endocrinology and Metabolism* (4.3 IF, impact factor), 2017 Dec 19; <https://doi.org/10.1152/ajpendo.00195.2017>
 - a. APT committees stated that the original manuscript was submitted before I started HUCM.
 - b. This is correct. However, I have evidence that I revised the manuscript and re-submitted while at HUCM

12. Spears LD, Renth AL, McKuin MR, Kennedy AR, **Andrisse S**, Briggs NE, Fisher JS. A role for ataxia telangiectasia mutated in insulin-independent stimulation of glucose transport. *Trends in Cell and Molecular Bio* (5.2 IF), 2017 Dec; 12. http://www.researchtrends.net/tia/article_pdf.asp?in=0&vn=12&tid=55&aid=6091
 - a. APT committees stated that the original manuscript was submitted before I started HUCM.
 - b. This is correct. However, I have evidence that I revised the manuscript and re-submitted while at HUCM
13. Falzarano, C., Lofton, T., Osei-Ntansah, A., Oliver, T., Southward, T., Stewart, S., & **Andrisse, S**. Nonalcoholic Fatty Liver Disease in Women and Girls with Polycystic Ovary Syndrome. *The Journal of Clinical Endocrinology and Metabolism* (6.0 IF), 2022 Jan 1. 107(1), 258–272. <https://doi.org/10.1210/clinem/dgab658>
 - a. The APT committees stated that this was a review.
 - b. The journal classifies it as a meta-analysis on the pdf. According to the updated PRISMA-2020 guidelines, my paper aligns with the criteria of a meta-analysis, and the PRISMA-2020 guidelines state that meta-analyses are prepared as original research. <https://medscimonit.com/abstract/full/idArt/934475>

Pubmed Articles: <https://pubmed.ncbi.nlm.nih.gov/?term=andrisse&sort=date>

Featured Media & Memoir - From Prison Cells to PhD

My efforts, as highlighted in my memoir "From Prison Cells to PhD: It is Never Too Late to Do Good," and various featured media articles, directly contribute to mentoring, teaching, and research at Howard University College of Medicine. By sharing my journey from incarceration to academia, I inspire and mentor students from diverse and challenging backgrounds, reinforcing the transformative power of education. My journey and work embodies Howard University's mission of excellence, leadership, service, and truth. These works advance Howard's aim to develop scholars and professionals who drive change and address contemporary global issues, such as mass incarceration which disproportionately impacts the African Diaspora.

1. From Prison Cells to PhD: It is Never Too Late to Do Good. *Simon & Schuster* – August 17, 2021. By Stanley Andrisse. <https://www.amazon.com/Prison-Cells-PhD-Never-Late/dp/1642939404>
2. Moving from prison to a PhD. *Nature*. 31 October 2019. By Virginia Gewin <https://www.nature.com/articles/d41586-019-03370-1>
3. Human Cells, Not Prison Cells. *Physiologist*. Featured article from November 2020. By Heather Boerner. <https://www.physiology.org/publications/news/the-physiologist-magazine/2020/november?SSO=Y>
4. Never Too Late to Do Good: The Redemption of Stanley Andrisse, PhD, MBA. *Endocrine News*. Sept 2021. BY DEREK BAGLEY. <https://endocrinenews.endocrine.org/never-too-late-to-do-good-the-redemption-of-stanley-andrisse-phd-mba/>
5. Meet the scientists building a prison-to-STEM pipeline. *PBS Nova*. APRIL 19, 2021. CHRISTINA COUCH. <https://www.pbs.org/wgbh/nova/article/prison-education-stem-science-incarceration-criminal-justice/>
6. HBCUs are building a new prison-to-college pipeline. NPR. August 17, 2022. SEQUOIA CARRILLO <https://www.npr.org/2022/08/17/1117523697/hbcus-are-building-a-new-prison-to-college-pipeline>
7. Commencement Speaker Stanley Andrisse | Union College Commencement June 2023 <https://www.youtube.com/watch?v=xKugpF6DYFc>
8. From troubled lives to medical school. AAMC. Nov. 6, 2023. By Patrick Boyle <https://www.aamc.org/news/troubled-lives-medical-school>
9. Ahead of Harvard Commencement, Graduating Students Celebrate Accomplishments with Affinity Ceremonies. Harvard Crimson. May 25, 2023. By Madeleine A. Hung and Neil H. Shah <https://www.thecrimson.com/article/2023/5/25/harvard-affinity-graduate-ceremonies-2023/>

Ongoing Research Support/Awards

Alnylam Pharmaceuticals Andrisse (Contact & Sole PI, HU) 02/01/2023 - 01/31/2024
 GB-45025. Analysis of hepatic AR knockdown for treatment of PCOS. Genetic deletion of hepatic AR has been shown to be very effective in ameliorating the metabolic impact of PCOS in a mouse model using low-dose DHT. The current study will have three aims. Aims 1 and 2 can be carried out in parallel. Aim 3 will depend on the outcomes of the first 2 aims.
 Direct Cost: \$179,222 Indirect Cost: \$91,403.

- There are no other PIs on this contract. The direct and indirect costs are listed above.

NIH NIDDK, Andrisse (Contact & Sole PI, HU) 06/01/2022 – 05/31/2027
 R01-DK126892. The cellular molecular regulation of differing mechanisms of insulin resistance. The Overall Aim is to establish that differing causes of insulin resistance display crosstalk between cellular, molecular, and genetic mechanisms
 Direct Cost: \$1,744,588. Indirect Cost: \$581,529.

- There are no other PIs on this grant. The direct and indirect costs are listed above.

NIH NIGMS, Andrisse Andrisse (Contact & Lead PI, HU) 07/01/2022 – 06/30/2027
 T34-GM142610. Bridges to the Baccalaureate Research Training Program at Howard University and Baltimore City Community College. The major goals of this project are to take the highly innovative approach to intersect the worlds of research, education, and incarceration by creating a ground-breaking prison-to-college-and-STEM pipeline.
 Direct Cost: \$1,442,976. Indirect Cost: \$214,713.

- NIH Reporter: <https://reporter.nih.gov/project-details/10680509>

- HU lead PI and Budget: Stanley Andrisse, MBA, PhD (Direct and Indirect for 5-years: \$940,398)
- BCCC PI and Budget: Anil Malaki, PhD (Direct and Indirect for 5-years: \$194,454)
- From Prison Cells to PhD (P2P) PI and Budget: Basia Skudrzyk, MBA (Direct and Indirect for 5-years: \$522,837)
- Participating Faculty: These faculty have agreed to serve as summer research host. They receive \$1,000 towards research supplies per student that they host. Allard, Joanne; Andrisse, Stanley; Burke, Janelle; Duttaroy, Atanu; Gao, Haijun; Jackson, Fatimah; Khundmiri, Syed; Lee, Dexter; Manaye, Kebreten; Mellman, Thomas A; Misiak, Magdalena; Muhammad, Bahiyah; N'Gouemo, Prosper; O'Neil, Jahn; Sulman, Rahmat; Teng, Shaolei; Thomas, Michael; Xie, Guiqin.

Completed Research Support

Howard University, Faculty Start-Up, Andrisse (PI) 01/01/2018 – 12/31/2022
Mechanistic Pathways of Insulin Resistance. These funds support research related activities, including supplies, equipment, and technical support (salary, fringe, and travel).

NIH LRP-CIR, Andrisse (PI) 07/01/2016 – 06/30/2020
The NIH Loan Repayment Program (LRP) in Contraception and Infertility research paid student loans up to \$35,000 per year.

****The support below this point was previous to my Howard appointment****

Johns Hopkins University Provost's Postdoctoral Diversity Fellowship, Andrisse (PI) 07/01/2016 – 06/30/2017
Inaugural recipient of a postdoctoral-to-faculty transition award. Only 4 awardees out of 90 applicants. Includes full salary, fringe, travel, and substantial research funds. (Total: \$75,000 per year)

NIH/NICHD 5T32DK007751-19, Wolfe (PI) 09/12/1997 -12/31/2016
Interdepartmental training program in cellular and molecular endocrinology
The goal of the Training Program is to expand the pool of well-trained and productive investigators in the biomedical sciences related to endocrinology. Role: Trainee (100%) (Total: \$60,000 per year)

American Physiological Society, William S. Townsend Porter Physiology Fellowship 09/01/2012 - 06/30/2014
The goal of this project was to determine the roles of p38 and GLUT1 T478 in deciphering whether increased GLUT1-mediated transport reduces ROS-induced insulin resistance. Role: P.I. (Total: \$40,000 per year)

Completed Travel Support

2012 Travel Award for EB2012, R13DK39306 NIH NIDDK American Physiological Society (APS)
2012 MARC Travel Award for APS, Federation of American Societies for Experimental Biology (FASEB)
2014 MARC Travel Award for APS at EB2014, FASEB
2015 Future Leaders Advancing Research in Endocrinology (FLARE), Endocrine Society
2015 Endo Careers Travel Award Endo2015, Endocrine Society
2016 Travel Award for EB2016, APS
2017 Outstanding Abstract Award, Endo2017, Endocrine Society
2017 Oral Abstract Award, Androgen Excess & Polycystic Ovary Syndrome (AEPPOS) Society
2017 Oral Abstract Award, Levine-Riggs Diabetes Symposium, City of Hope
2018 Oral Abstract Award, AEPPOS
2018 Outstanding Abstract Award, Endo2018, Endocrine Society
2019 Outstanding Oral Abstract, ADA 2019, American Diabetes Association

Service, Other Experience, and Leadership

(American Physiological Society, Endocrine Society, National Institutes of Health, National Academy of Sciences)
2004-2006 Vice President, Natural Science Club, Lindenwood University
2013-2014 Vice President, Graduate Student Association, Saint Louis University
Represented over 8,000 graduate students.
Organized and orchestrated a graduate student research symposium with over 800 attendees.
Lead a committee of 10 reviewers that was responsible for awarding over \$45,000 in awards.
2013-2016 Member, Porter Physiology Development & Minority Access Committee, American Physiology Society (APS)
Charged with ensuring that the Society continuously strives to create an environment in which all individuals are encouraged to join, thrive and lead.
2014 **Invited Speaker**, Division of Diabetes & Metabolism, Washington University in St. Louis
2015 **Invited Speaker**, Center for Reproductive Sciences, University of California San Francisco; Pediatric Grand Rounds, Johns Hopkins University School of Medicine
2015-2018 Member (1-term), Finance and Audit Committee, Endocrine Society
2015-2016 Member (1-term), Leadership Development Task Force Committee, Endocrine Society
2015-2016 Co-President, Johns Hopkins Postdoctoral Association, Johns Hopkins School of Medicine
Oversaw the actions of 6 committees & **Managed** a \$50,000 yearly budget.

Chaired bi-monthly meetings that included 12 board members.
Reduced expenses by 75% and increased sponsorships, donations and income by 300%.
Organized 6 events with 200+ attendees each. **Constituency** of over 1600 postdoctoral fellows
 2015-2017 Co-Chair, Diversity Postdoctoral Alliance Committee, Johns Hopkins School of Medicine
Created a \$1 million fellowship proposal that was funded by the Provost Office (**institutional impact**).
Initiated a diversity mentoring family for graduate students and postdocs.
Implemented a quarterly town hall series to address issues pertaining to diversity in science.
Raised nearly \$20,000 in the first year & **Empowered** others to perform better.

2016-2019 Member, Porter Physiology Development & Minority Access Committee, **APS**
Promoted diversity and inclusion within the APS member community and the discipline of physiology.

2016-2018 Board of Directors, Goucher Prison Education Partnership, Goucher College
 2016-2019 Board of Directors, Young Leaders, American Diabetes Association
 2016-2019 Member (1-term), Career Opportunities in Physiology Committee, **APS**
Promoted interest in careers in physiology. **Highlighted** the diversity of careers available to physiologists. **Developed** professional development and leadership training programs

2017-2017 Board President, From Prison Cells to PhD Inc
Invited Speaker, Ponce School of Medicine, Puerto Rico; California State University, Sacramento; Center for Reproductive Sciences, University of California San Francisco;

2017-2021 Member, Advisory Committee to the Director Working Group on Diversity, **National Institutes of Health (NIH)**
Charged with developing effective diversity-related strategies for NIH. **Advised** the NIH Director.

2017-2019 Faculty Advisor, Incarceration Health Justice (IHJ) Medical Student Group, Johns Hopkins Medicine
 2017 Peer Reviewer, Journal of Endocrinology; Endocrinology; PLOS One
 2018 Peer Reviewer, Journal of Endocrinology; Endocrinology; PLOS One
 2018 **Invited Speaker**, Episcopal Advocacy Day, Maryland; 70x7 Muskegon, Michigan; University of St. Thomas, Houston, TX; Berks Connections/Pretrial Services, Pennsylvania; Endocrine Society Meeting, "How to get your groove back" and "Entrepreneurship", Chicago, IL;

2018- Member, Medical Student Admissions Committee, Howard University College of Medicine
Conducted two interview sessions and **Attended** one committee meeting weekly for 8-months per year.
Consistently one of the top five members who interviewed the most students. **#1 interviewer** in 2021.

2018-2021 Member, Executive Committee, Howard University, Department of Physiology
 2018-2021 Member, Faculty Recruitment Committee, Howard University, Department of Physiology
 2018-2021 Member, Graduate Training Committee, Howard University, Department of Physiology

2019 **Invited Speaker**, (1) Penn State University, "Restorative Justice", PA (Mar); (2) Endocrine Society Meeting, "How to get your groove back" and (3) "Entrepreneurship", New Orleans, LA (Apr); (4) Department of Family Services, "Asset-based Community Development", Madison, WI (Apr); (5) Forward Services Corporation, "Mentorship", Madison, WI (Apr); (6) Dept of Public Safety & Corrections Services, "Employee Appreciation Keynote", Baltimore, MD (May); (7) Incarceration Health Justice, "Education over Incarceration", Johns Hopkins, Baltimore, MD (May); (8) Institute for Higher Education Policy, "College Affordability", Washington, DC (May); (9) Washington University STL, "Commencement Speech", St. Louis, MO (May); (10) American Enterprise Institute, "Bridging the Divide", Denver, CO (June); (11) College & Community Fellowship, "Thrive", New York, NY (June); (12) University of Washington Tacoma, "Prison Education & Research Lab", WA (June); (13) National Institutes of Health, "Advancing Diversity Conference", DC (June); (14) Congressional Black Caucus Foundation, "Marijuana Reinvestment", DC (Sep); (15) National Institute of Diabetes Digestive & Kidney Disease, "NAFLD", Bethesda, MD (Sep); (16) National Criminal Justice Assoc, "Equity Lens", Arlington, VA.

2019-2022 Board of Directors, Formerly Incarcerated College Graduates Network
 2020-2021 Member, EndoCares DC Planning Committee, **Endocrine Society**
 2020 Peer Reviewer, *Journal of Steroid Biochemistry and Molecular Biology*; PLOS One
 2020 Member, COVID-19 Task Force, Howard University
 2020-2023 Guest Editor, Journal of Urban Education, Black Lives Matter in STEM.
 2020 Ad Hoc Member, Molecular and Cellular Endocrinology (MCE, 2021/01) Study Section, **NIH**, Endocrinology, Metabolism, Nutrition and Reproduction, Initial Review Group

2021 **Invited Speaker**, Justice System Working Group, MD (Feb); Health Care in the Age of Mass Incarceration Johns Hopkins School of Public Health, MD (Feb); DC Public Schools Ceremony, DC (Feb); American Society of Neurorehabilitation Annual Meeting, MA

2021-2023 Member, Trauma Informed Care (TIC) Committee, Baltimore City Council
 2021-2023 Member, Teaching and Evaluation Committee, Howard University, Department of Physiology
 2021-2023 Member, Curriculum Committee, Howard University, Department of Physiology
 2021 Ad Hoc Member, Reproduction, Andrology, and Gynecology Study Section, **NIH**, Child Health and Human Development (CHHD-R, 2022/01), Initial Review Group

2021 Peer Reviewer, *Journal Committed to Social Change in Race and Ethnicity*, Medical Sciences at CRC Press;
 2021-2023 Member, Scientific Statements Subcommittee, **Endocrine Society**
Produced recommendations for research and policy. **Positioned** the Society as experts on health issues.

2021-2023	Member, Physiology Leadership Summit Committee, APS Defined high-level programming themes. Selected invited speakers for game changer sessions.
2022-2023	Board Member, Education Justice Project at the University of Illinois Urbana-Champaign
2022	Peer Reviewer, <i>Endocrinology; Diabetes, Metabolic Syndrome and Obesity: Targets and Therapy; Frontiers in Molecular Biosciences; Frontiers in Cardiovascular Med; Frontiers in Endocrinology; Gynecological Endocrinology; Journal of Physiology & Pharmacology; Bioengineered; Nutrients;</i>
2022	Member, Endocrine and Metabolic Systems (EMS (10), 2023/01) Study Section, NIH , Small Business: Diabetes, Metabolism, Nutrition and Obesity
2023	Member, National Academies of Sciences, Engineering, and Medicine, Ford Foundation Fellowships Biological and Biomedical Sciences review panel.
2023-	Member, Cell Signaling & Molecular Endocrinology (CSME, 2023/02) Study Section, NIH , Endocrinology, Metabolism, Nutrition and Reproduction, Initial Review Group
2023-2026	Director, Board of Directors, Endocrine Society
2023-2024	Member, Editorial Board, Endocrinology, Endocrine Society
2024-	Associate Editor, Endocrinology, Endocrine Society

Students Mentored

Underrepresented minorities (URM [NIH definition](#)) are **blue**. *indicates mentored during predoctoral and postdoctoral fellowship. **indicates those who have indicated they are okay with me sharing that they are directly impacted by the legal system. Co-authors bolded.

Trainee Key (level at time of mentoring): HS, High school; U, Undergrad; B2B, Bridges to Baccalaureate trainee; PB, postbac; MS, masters; M1, first year medical student; D1, first year dental student; M2, second year medical student; D2, second year dental student; PhD, doctorate; PD, postdoc; F, faculty or teacher; T, technician. In parentheses is the highest level of educational attainment.

Students Mentored (13 trainees, 1 URM, 7 female, as Ph.D. student/fellow at SLU)

2010-2011	Anne Rosenketter (U; graduated from Washington U School of Pharmacy, PharmD-2017)
2010-2011	Mike McQuin (U; graduated from Nova Southeastern College of Osteopathy, DO-2018)
2010-2013	Andrea Webber (U; graduated University of Kansas Hospital, occupational therapist)
2010-2013	Joseph Chen (U; graduated from Stanford School of Medicine, MD-2018)
2010-2014	Gaytri Patel (U; graduated from Saint Louis University School of Medicine, MD-2018)
2010-2014	Allyson Renth (U; graduated from Saint Louis University School of Medicine, MD-2018)
2011-2013	Rikki Koehler (U; graduated Saint Louis University Medical School, MD-2019)
2012-2013	Vivek Vallurupalli (HS; graduated from MIT, undergraduate-2018)
2012-2014	Chuwuemeka Obi (U; graduated Meharry medical college, MD-2019)
2012-2014	Emma Dwyer (U; graduated Saint Louis University, MD-2019)
2013-2014	Ben Ratliff (HS; graduated from Wisconsin University, undergraduate-2018)
2013-2014	Katelyn Billings (HS; graduated Johns Hopkins University (JHU), undergraduate-2018)
2013-2014	Rohan Prasad (U; graduated Saint Louis University Grad School, % 2021)

Students Mentored (10 trainees, 7 URM, 5 female, as a postdoctoral fellow at JHU)

2014-2016	Katelyn Billings* (U; graduated Johns Hopkins, undergraduate-2018)
2014-2016	Yi Chen (U; graduated from University of Maryland, undergraduate-2018)
2014-2015	Shameka Childress (PB; attended American University of Antigua, Med student)
2015	Meilinn Tran (U; graduated U. of New Mexico, undergraduate-2015)
2015-2016	Lamin Sonko (U; graduated Harvard Medical School, % 2021)
2016	Chi Chi Udochi (M1; graduated Howard Medical School, % 2019)
2016	Fuad Sirmolo (U; graduated from University of Maryland Baltimore, undergraduate-2018)
2016	Lateshia Scott (HS; graduated University of Maryland, % 2021)
2017	Chuwuemeka Obi* (M1; graduated Meharry medical college, % 2020)
2017	Danielle Cook (HS; graduated Johns Hopkins, % 2021)

Students Mentored (41 trainees, 32 URM (78%), 26 female (63%), 10 directly impacted (24%), as a faculty at HU)

2018	Patrick McWhorter** (U; graduated Youngstown State U., % 2021)
2018-2020	Tina Seidu (M1; graduated Howard University College of Med, % 2021)
2018	Rabita Alamgir (M1; graduated Howard University College of Med, % 2021)
2018-2019	Kelly King (PhD dissertation, graduated Johns Hopkins, PhD-2018)
2019-2020	Dilip Bogle** (PD; HUCM, research tech)
2019	Nicole Eregha** (PB; Caribbean medical school, % 2023)
2019-2021	Adjoa Osei-Ntansah (U; HU undergrad, % 2021; UPenn Grad School, % 2026)
2019	Jessie Myer (U; University of Missouri, % 2022; U of MO PhD % 2027)
2020-2022	Taylor Southward (U; HU undergrad, % 2022; Johns Hopkins PhD % 2027)

2020-2021 **Trinitee Oliver** (U; HU undergrad, % 2023; Cedar Sinai MD/PhD % 2030)
2020-2021 **Salim Stewart** (U; HU undergrad, % 2023)
2020-2022 **Taylor Lofton** (T; HUCM Research Tech; HUCM PhD % 2027)
2020-2022 **Claire Falzarano** (T; HUCM Research Tech; HUCM medical student, % 2025)
2021 Josie Levey (U; APS Summer Fellowship, Bates College undergrad, % 2025)
2021 **Andre Wilson** (M1; HUCM, % 2024)
2021-2022 **Kiana Carr** (PhD; HUCM Physiology PhD Student)
2021-2023 **Kayla Young** (U; HU undergrad, % 2023)
2021-2023 **Ella Damaser** (U; HU undergrad, % 2023)
2022 **Dwight Young**** (M1; HUCM Med Student, % 2025)
2022 **Johvan Hill-Dick** (M1; HUCM Med Student, % 2025)
2022-24 **Demarrius Young** (M1; HUCM Med Student, % 2026)
2022-23 **Elizabeth Bolarinwa**** (U; HU undergrad, % 2023)
2022 **Rabia Qutab**** (PB; P2P Summer Fellowship)
2022-24 **Guyton Harvey** (T; HUCM % 2027)
2022-23 **Gabriella Aniya** (UG; HU % 2024)
2022-23 **Vaisakh Nair** (M1; HUCM % 2025)
2023- **Amerie Jackson** (UG; HU % 2026)
2023-24 **Jason Lett** (M1; HUCM % 2026)
2023-24 **Damon Ross** (M1; HUCM % 2026)
2023-24 **Jasmine Gray**(Dental; HU CD % 2026)
2023 **Jacob Maynard**** (UG; Baltimore City Community College % 2025)
2023- **Md Ahsan Rahman, PhD** (Postdoc, HUCM)
2023- **Julia Biantey** (PhD, HUCM, % 2027)
2023- **Ashley Jones** (UG, HU % 2024)
2024 **TyShawn Harris**** (rising D2; Howard University % 2027)
2024 **Madison Blackwell** (rising M2; Howard University % 2027)
2024 **Tyson Bowen**** (B2B; Baltimore City Community College % 2025)
2024 **Rachelle Hankerson**** (B2B; Baltimore City Community College % 2025)
2024 **SaNae Muhammad** (rising M2; Howard University % 2027)
2024- **Marian Enid Guzmán Sandoval** (Technician, Howard University; Tec Salud undergraduate-2024)
2024- **Amira Abdelgawwad** (PhD, Howard University % 2029)

I am committed to mentoring, in particular minority scholars. That is one of the main reasons I choose Howard University, one of the top HBCUs to begin my faculty career. I also run a mentoring program, Prison to Professionals (P2P), for underserved individuals looking to pursue higher education.

Of note, the students listed who were mentored during my Ph.D. and Postdoctoral training years were supervised and mentored by me, but they were also the mentee of my PI of that time (Dr. Jonathan Fisher or Dr. Sheng Wu, predoctoral and postdoctoral, respectively).