EDUCATION

University of Pennsylvania 2023-present

Postdoc with Professors Mitchell Lazar, M.D., PhD and Dan Rader, M.D.

Clinic at the Penn Metabolic Medicine Center

The Hospital of the University of Pennsylvania 2018-2023

Physician Scientist Program

Endocrinology, Diabetes and Metabolism Fellowship

Board Eligible in Endocrinology after June 2024

Internal Medicine Residency, completed May 2020

Board Certified in Internal Medicine

Baylor College of Medicine, Houston, TX 2009-2018

Medical Scientist Training Program

*Doctor of Medicine*, awarded 2018

*Doctorate of Philosophy*, awarded 2016

* Department-Translational Biology and Molecular Medicine
* Thesis- Steroid Receptor Coactivator 2: Metabolic Implications for Human Health and Disease.
* Thesis Advisor- Professor Bert O’Malley, M.D.

University of Maryland, Baltimore County, Baltimore, MD 2005-2009

Bachelor of Science, *magna cum laude,* Biochemistry and Molecular Biological Sciences

* *Phi Beta Kappa* Honor Society
* Golden Key International Honour Society

*Certificates*

**Introduction to Principles & Practice of Clinical Research**, National Institutes of Health 2016

* Semester course on clinical research that included epidemiologic methods, study design, protocol preparation, patient monitoring, quality assurance, and Food and Drug Administration (FDA) regulation.

**HONORS, AWARDS, SCHOLARSHIPS, & FELLOWSHIPS**

**T32 Endocrinology Diabetes and Metabolism,** NIDDK 2021-present

**Invited Chair of the Nuclear Receptors Panel at Endocrine Society Meeting** 2024

**Future Leaders Advancing Research in Endocrinology,** 2021

The Endocrine Society

*Medical and Graduate School*

**Ruth L. Kirschstein National Research Service Awards**, 2016-2018

National Institute of Diabetes and Digestive and Kidney Diseases

* An individual fellowship for medical and graduate school

**Medical Scientist Training Program**, 2009-2018

National Institute of General Medical Sciences

* Full merit scholarship towards medical and graduate school

**Howard Hughes Medical Institutes Med into Grad Initiative** 2010-2011

* Funding to support the first year of graduate school in the Translational Biology and Molecular Medicine department

**Community Service Award**, Medical Scientist Training Program 2017

* Awarded for outstanding service for the entirety of the Medical Science Training Program

**Oral presentation** 2016

At the American Association of Physicians, the American Society of Clinical Investigation, American Physician Scientist Association joint meeting

**American Physician Scientist Association Travel Award** 2016

* Joint meeting of the American Association of Physicians, the American Society of Clinical Investigation, American Physician Scientist Association, Chicago, IL.

*Undergraduate*

*Phi Beta Kappa* Honor Society 2009

Meyerhoff Scholar 2005-2009

* A full merit scholarship towards undergraduate studies for students interested in underrepresented minorities in STEM

Howard Hughes Medical Institute Scholar 2006-2009

* A full merit scholarship towards undergraduate studies and undergraduate research projects

MARC U\*STAR (Minority Access to Research Careers, Undergraduate Student Training in Academic Research) 2007-2009

* A full merit scholarship for underrepresented minorities interested in pursing careers in STEM that supported undergraduate studies and research projects

**Federation of American Societies for Experimental Biology Travel Award** 2006

* Support for travel and poster presentation at the Annual Biomedical Research Conference For Minority Students

**Golden Key International Honour Society** 2007

**RESEARCH EXPERIENCE**

**The University of Pennsylvania, Philadelphia, PA** 2021-present

*Advisor: Mitchell Lazar, M.D., Ph.D., Institute for Diabetes, Obesity and Metabolism*

* I am elucidating the cistromic contribution of PPAR family members PPARa and PPARg in non-alcoholic fatty liver disease pathogenesis. Specifically, I am using genomic and molecular techniques to identify pathways perturbed with steatohepatitis.

**Baylor College of Medicine, Houston, TX** 2011-2016

*Advisor: Bert O’Malley, M.D., Professor, Molecular and Cellular Biology*

* I identified SRC-2 as an indispensable integrator of transcriptional complexes that control the rate-limiting steps of hepatic glucose release and accretion. This work resulted in a first author publication in *Proceedings of the National Academy of Sciences of the United States of America*.

**University of Maryland Baltimore County, Baltimore, MD** 2007-2009

*Advisor: Lasse Lindahl, Ph.D., Professor, Biological Sciences*

* I used molecular cloning to delineate steps in pre-ribosomal RNA processing by the endonuclease RNase MRP and the exonuclease XRN1.

**University of Alberta, Edmonton, Alberta, Canada** 2007

*Mentor: Michele Barry, Ph.D., Professor, Medical Microbiology and Immunology*

* I evaluated the molecular mechanism(s)by which vaccinia virus evades host cell death via anti-apoptotic proteins A6L and N1L using molecular cloning.

**University of Maryland Baltimore County, Baltimore, MD** 2006-2007

*Advisor: Lasse Lindahl, Ph.D., Professor, Biological Sciences*

* I used structure-function studies to determine the base pair conservation in the catalytic RNA helices of the ribozymes RNase MRP and RNase P.

**Publications**

**Fleet, T.**, Stashi, E., Zhu, B., Rajapakshe, K., Marcelo, K. L., Kettner, N. M., Coarfa, C., Fu, L., O’Malley, B., York, B (2016). Genetic and Environmental Models of Circadian Disruption Link SRC-2 Function to Hepatic Pathology.*Journal of Biological Rhythms*. 31(5), 443–460. http://doi.org/10.1177/0748730416657921

**Fleet, T**., Zhang, B., Lin, F., Zhu, B., Dasgupta, S., Stashi, E., Tackett, B., Thevananther, S., Rajapakshe, K., Gonzales, N., Dean, A., Mao, J., Timchenko, N., Malovannaya, A., Qin, J., Coarfa, C., DeMayo, F., Dacso, C., Foulds, C., O’Malley, B., York, B. (2015). SRC-2 orchestrates polygenic inputs for fine-tuning glucose homeostasis. *Proceedings of the National Academy of Sciences of the United States of America*.doi:10.1073/pnas.1519073112

Kesari, N., **Fleet, T**., Alanzi B., Goodman C. (2017) A 48-year-old Woman with Bizarre Behavior, Neurological Symptoms, and Progressive Decline. *Neurology*

**PRESENTATIONS**

*National and International Presentations*

**American Association of Physicians, American Society of Clinical Investigation, American Physician Scientist Association Joint Meeting**, Chicago IL 2016

SRC-2 Orchestrates Polygenic Inputs for Fine-tuning Glucose Homeostasis. **Oral** presentation.

**Cold Spring Harbor Nuclear Receptors and Friends**, Cold Spring Harbor, NY 2014

SRC-2 Dynamically Regulates Gluconeogenesis and Glycolysis via *Glucose-6-phosphatase* and *Glucokinase*. Poster Presentation.

*Local Presentations*

**Medical Scientist Training Program Symposium**, Houston, TX 2015

SRC-2 Orchestrates Polygenic Inputs for Fine-tuning Glucose Homeostasis. **Oral** presentation.

**Translational Biology and Molecular Medicine Symposium**, Houston, TX 2015

SRC-2 Orchestrates Polygenic Inputs for Fine-tuning Glucose Homeostasis. **Oral** presentation.

**Medical Scientist Training Program Symposium**, Houston, TX 2014

SRC-2 Dynamically Regulates Gluconeogenesis and Glycolysis via *Glucose-6-phosphatase* and *Glucokinase*. Poster presentation.

**Translational Biology and Molecular Medicine Symposium**, Houston, TX 2014

SRC-2 Dynamically Regulates Gluconeogenesis and Glycolysis via *Glucose-6-phosphatase* and *Glucokinase*. Poster presentation.

**Graduate School Symposium**, Houston, TX 2014

SRC-2 Dynamically Regulates Gluconeogenesis and Glycolysis via *Glucose-6-phosphatase* and *Glucokinase*. Poster presentation.

**Medical Scientist Training Program Symposium**, Houston, TX 2013

Characterization of the SRC-2 /AMPKα2 Signaling Axis in Liver Metabolism. Poster presentation.

**Translational Biology and Molecular Medicine Symposium**, Houston, TX 2013

Characterization of the SRC-2 /AMPKα2 Signaling Axis in Liver Metabolism. Poster presentation.

**Graduate School Symposium**, Houston, TX 2013

Characterization of the SRC-2 /AMPKα2 Signaling Axis in Liver Metabolism. Poster presentation.

**LEADERSHIP EXPERIENCE & PROFESSIONAL SOCIETIES**

**Medical Scientist Training Program Student Operating Committee**, Baylor College of Medicine, Houston, TX 2011-2018

*Member*

* Reviewed files and interview MSTP applicants throughout interview season
* Coordinated recruitment activities
* Mentored junior students in the MSTP

**Medical Scientist Training Program Seminars Committee**, Baylor College of Medicine, Houston, TX 2015-2018

* Reviewed the seminars and educational activities for the MSTP

**Graduate School Council**, Baylor College of Medicine, Houston TX 2012-2013

*Member*

* Social Committee:
  + Coordinated social events for the graduate school
* Communications Committee:
  + Disseminated information to the graduate school body
* Fundraising Committee:
  + Assisted in coordinating the school’s largest student run fundraisers, the Annual Art Show, to benefit the Texas Children’s Hospital Cancer and Hematology Centers
  + Helped design and sell T-shirts for the Graduate School Council fund
* Graduate School Symposium:
  + Assisted in coordinating the largest symposium at Baylor College of Medicine, the annual Graduate School Symposium

**Student Affairs**, Baylor College of Medicine, Houston TX 2012-2013

*Graduate School Representative*

* Represented the graduate school in meetings to address the needs/concerns of students across all of the schools at Baylor College of Medicine

**National Youth Leadership Forum**, Baylor College of Medicine, Houston TX

*Lead Coordinator* 2013-2015

* Coordinated a summer program that introduces high school and college students to careers in medicine

**Student National Medical Association**, Baylor College of Medicine, Houston TX

*Member* 2009-2018

* Led SAT preparation lectures to high school students
* Participated in health fairs for underserved populations

**Mary Susan Moore Medical Society**, Baylor College of Medicine, Houston TX

*Member* 2010-2018

* Participated in health fairs for underserved populations,
* Fundraised for missions to benefit women in developing countries
* Ran in the annual 5k breast cancer awareness for African American women

**Introduction to Principles & Practice of Clinical Research**, National Institutes of Health 2016

* Established Baylor College of Medicine as a remote site to take the IPPCR certificate course

**Initiative to Strengthen Health**, Institute for the Collaboration in Health, Chicago, IL

2017

* Conference on social determinants of disease

**Endocrine Society**, USA 2014-present

*Member*

**American Association for the Advancement of Science**, USA 2016-present

*Member*

**American Association of Clinical Endocrinology,** USA 2023-present

*Member*

**COMMUNITY SERVICE AND MENTORING**

**Office of Diversity and Community Outreach**, Baylor College of Medicine, Houston, TX 2009-2018

* Lectured undergraduates at the University of Houston about preparing for medical school
* Participated in hiring decisions for the Career Development and Student Services Center at Baylor College of Medicine
* Interviewed and mentored high school students for the Summer Research Program

**Saturday Morning Science**, Baylor College of Medicine, Houston, TX 2009-2011

* Led breakout groups of middle school and high school students that are interested in careers in science

**Annual Houston Premedical Academy Research Symposium**, Baylor College of Medicine, Houston, TX 2011-2018

* Taught high school and college students how to prepare a research poster
* Judged the annual poster session

**Doctor’s Day Out**, Baylor College of Medicine, Houston, TX 2011-2013

* Visited middle schools and high schools and spoke about careers in medicine and science

**Genetics/Genomics Research Education And Training Program**, Baylor College of Medicine, Houston, TX 2016

* Advised undergraduates about preparing for graduate school and/or medical school

**African American Women In Science**, Baylor College of Medicine, Houston TX

2015-2018

* Peer mentored fellow graduate students in various aspects of obtaining a Ph.D.

**Summer Medical And Research Training Program,** Baylor College of Medicine, Houston, TX 2012-2018

* Mentored undergraduates participating in summer research at Baylor College of Medicine

**Mathew Carter Service Day**, Baylor College of Medicine, Houston, TX 2010

* Volunteered at the Houston Food Bank

**Harvey Relief Effort-Houston Food Bank**, Houston TX 2017

* Sorted donated food for survivors of hurricane Harvey

**Peer Mentoring**, Baylor College of Medicine, Houston TX 2016-2017

* Informally mentored a resident in the art of writing a manuscript.

**TEACHING EXPERIENCE**

**Lecturer**, Baylor College of Medicine, Houston TX 2015

* Lectured to second year medical students in the Cardinal Manifestations of Disease lecture series
* Assisted in planning and organizing the lecture series

**Teaching Assistant**, Baylor College of Medicine, Houston TX 2014

* Assisted teaching the Energy and Metabolism graduate school course

**Learning Assistant**, University of Maryland Baltimore County, Baltimore, MD 2008

* Assisted teaching physics to undergraduates

**Tutor for Upward Bound**, University of Maryland Baltimore County, Baltimore, MD

2006-2008

* Tutored first generation and low income high school students