

Phoebe Stapleton, Ph.D.

Present Position: Assistant Professor of Pharmacology and Toxicology, Rutgers University

Education:

B.S. (Athletic Training and Biology), SUNY Cortland (2002)

M.S.Ed. (Kinesiology), SIU-Edwardsville (2004)

Ph.D. (Exercise Physiology), West Virginia University (2010)

Current Funding:

- National Institute of Environmental Health Studies, Pathway to Independence Award
- Career Development Project, Center for Environmental Exposures and Disease – Rutgers University
- Seed Grant for Early Stage Faculty, ONE Nutrition, Rutgers University (co-PI)

Editorial Boards:

Review Editor - Frontiers in Vascular Physiology

Grant Review:

American Heart Association –

- Vascular Endo Bio 1 study section (2015-2016)
- Career Development Award Vascular Basic Sciences study section (2018)

Professional Societies:

- Microcirculation (2007-present)
- American Heart Association (2007-2012)
- Society of Toxicology (2011 - present)
- Developmental Onset of Health and Disease (2017 - present)
- American Physiological Society (2018-present)

Professional Activities:

- Chair, Awards Committee, The Microcirculation Society (2018-present)
- Member, Awards Committee, The Microcirculation Society (2017-2018)
- Councilor, Cardiovascular Toxicology SS, SOT (3/2017-present)
- Awards Nomination Committee, Women in Toxicology SIG, SOT (6/2015-present)
- Co-Chair, The Microcirculation Society Reception Poster Session (4/2017-present)
- Past-President, Alleghany-Erie Regional Chapter, SOT (2016-2017)
- Member, Membership Committee, The Microcirculation Society (2014-2017)
- President, Alleghany-Erie Regional Chapter of the Society of Toxicology (2015-2016)
- President-Elect, Alleghany-Erie Regional Chapter, SOT (2014-2015)

Current Research Interests:

- Impact of xenobiotic exposure during pregnancy and their bearing on maternal, fetal, and offspring health (reproductive toxicology, nanotoxicology, Developmental Onset of Health and Disease, Barker Hypothesis, vascular pathophysiology).

- Impact and toxicokinetics of material and/or pharmaceutical exposures on systemic microvascular function (theranostics, cardiovascular toxicology, nanotoxicology).
- Structural and functional microvascular changes associated with pregnancy, hypercholesterolemia, obesity, metabolic syndrome (vascular pathology).
- Exercise as medicine to treat lifestyle co-morbidities (exercise physiology).

Personal Statement:

I was introduced to the microvasculature during my graduate work with Dr. Jefferson Frisbee and was struck by how even small impairments in arteriolar reactivity could have such profound systemic outcomes in the continuum between health and disease. Using this continuum, I moved to Dr. Timothy Nurkiewicz's lab for postdoctoral training in inhalation toxicology to understand how something inhaled could affect the cardiovascular system – and specifically the microcirculation. It was after a speculative laboratory meeting that I found my current niche centered around how maternal vascular impairments during pregnancy affect fetal development and promote the development of cardiovascular disease in surviving offspring. I presented frequently at Microcirculation meetings as a student, always nervous of faculty approaching me with questions that began, "Good, now what if...". As I attend and present my work at Microcirculation now, I genuinely look forward to these conversations, with the intent of pushing the science forward. As faculty now, I am very focused on the promotion and inclusion of students, postdoctoral fellows, and junior faculty. As such, I organized and co-chaired scientific symposia focused on "Emerging Topics" at the 2018 FASEB and 2018 World Congress of Microcirculation meetings, leading to the opportunity to serve as a Guest Editor for an upcoming Microcirculation issue focused on the same topic, and I have been consistently involved in the Reception Poster Session at annual meetings. I have been privileged to serve on the Membership and Award committees of Microcirculation and was recently promoted to the Chair position of the Awards Committee. Overall, I have scientifically grown-up in the society and look forward to the opportunity to continue to serve the membership through promotion and engagement.