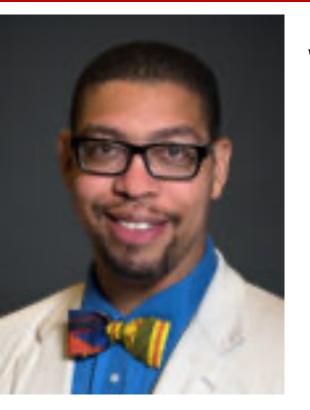
Hinton Lab

Assistant Professor (Tenure Track), Molecular Physiology & Biophysics, Vanderbilt University



Williams,

Scholar

We are a diverse group of scientists with a research vision of using a broad range of tools to explore mechanisms that regulate molecular transfer between and changes in morphology of the mitochondria and endoplasmic reticulum (ER) and how these mechanisms are altered during the pathophysiological states of diabetes, obesity, and cardiovascular disease.



Our Laboratory



Dr. Edgar Garza-Lopez, Marshall, Staff **Staff Scientist** Scientist @EdgarGa472 @DrDreNeuroWay



Dr. Heather Beasley **Postdoctoral**



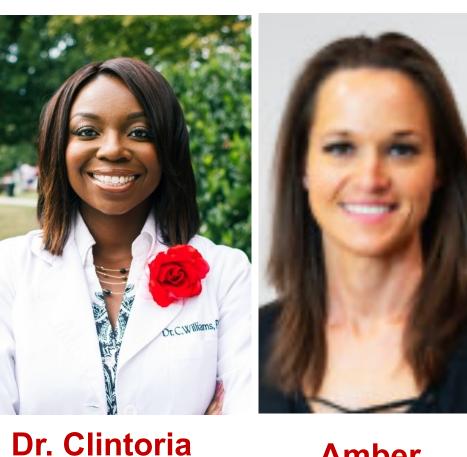
Dr. Dominique Stephens, **Postdoctoral Fellow**



Dr. Zer Vue, **Postdoctoral** Scudese, Visiting Fellow, @ZerVue @DrScudese



Dr. Prassanna Visiting Faculty @KattiiPrasanna



Amber Crabtree. **Visiting Faculty Graduate Student**



Chanel Harris, **Graduate Student**



Postbacc

Kit Neikirk, Postbacc, @NeikirkKit



Sasha Manus, Larry Vang, Research

Technician

We use 3D reconstruction of mitochondria and cristae

to show murine tissue-dependent changes in aging



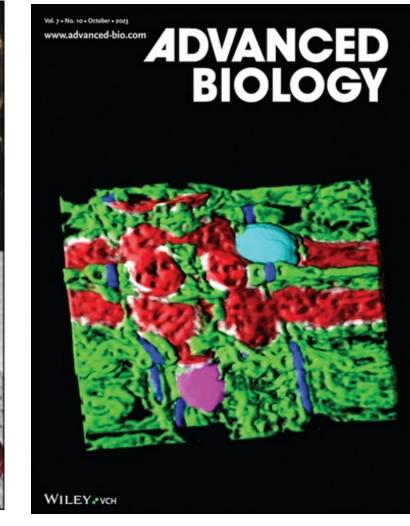
Dr. Neng Vue, **Scientific Artist**

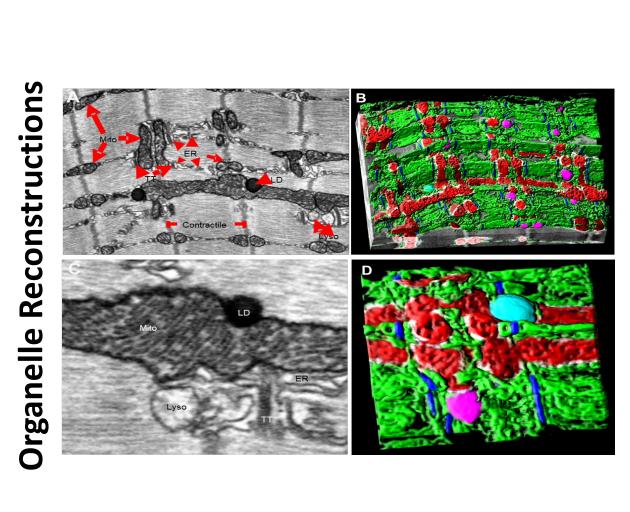


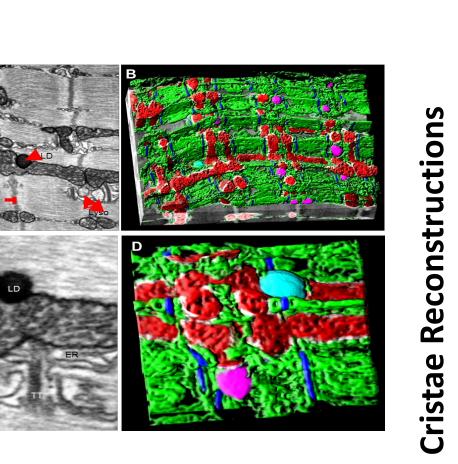
Bryanna Shao, Research Intern @bryanna_ys

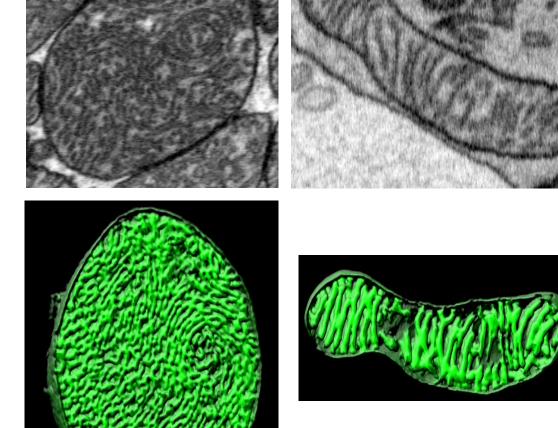
We have developed methods to optimally prepare and quantitatively define mitochondria and other organelles



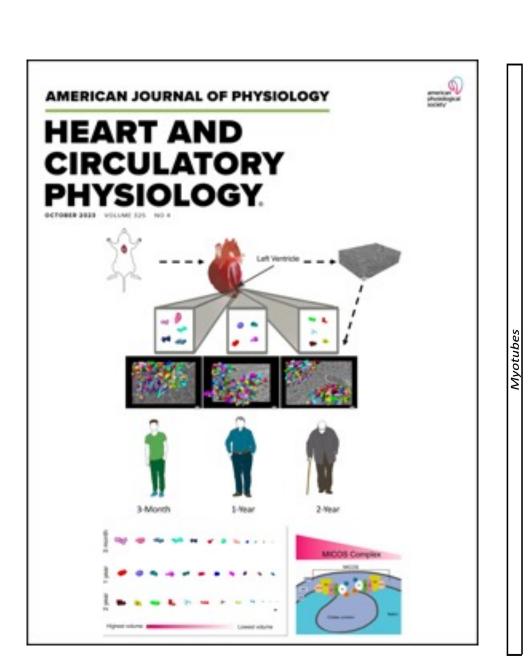


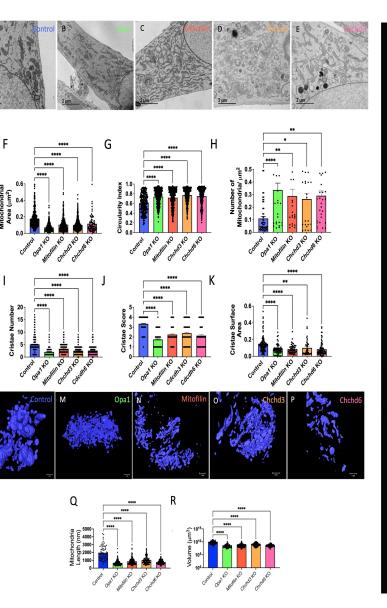


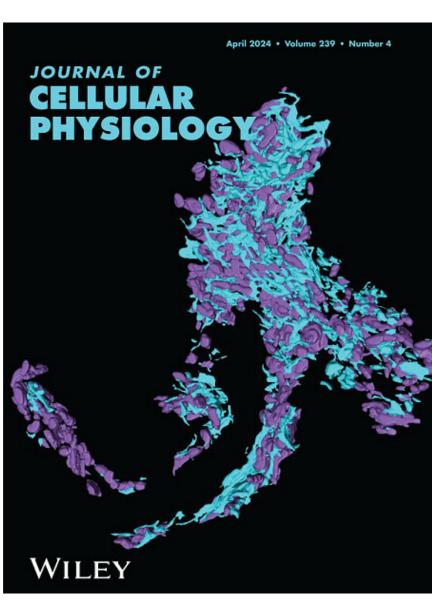


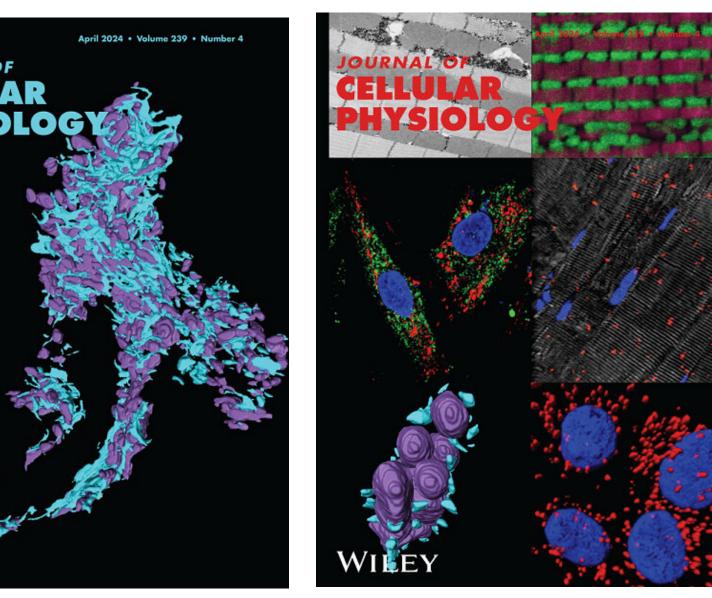


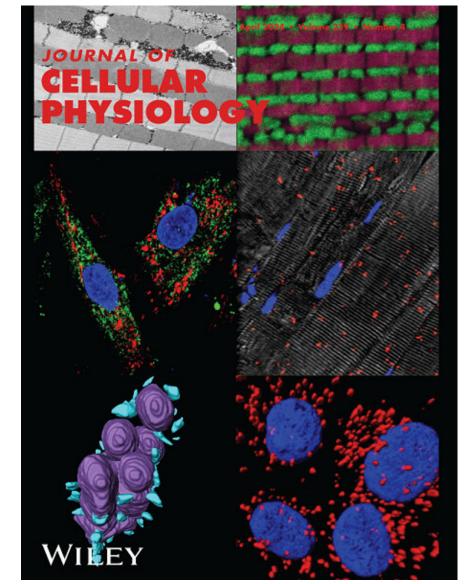
We are showing how the MICOS complex and OPA1 may be an effector in age-related mitochondria changes

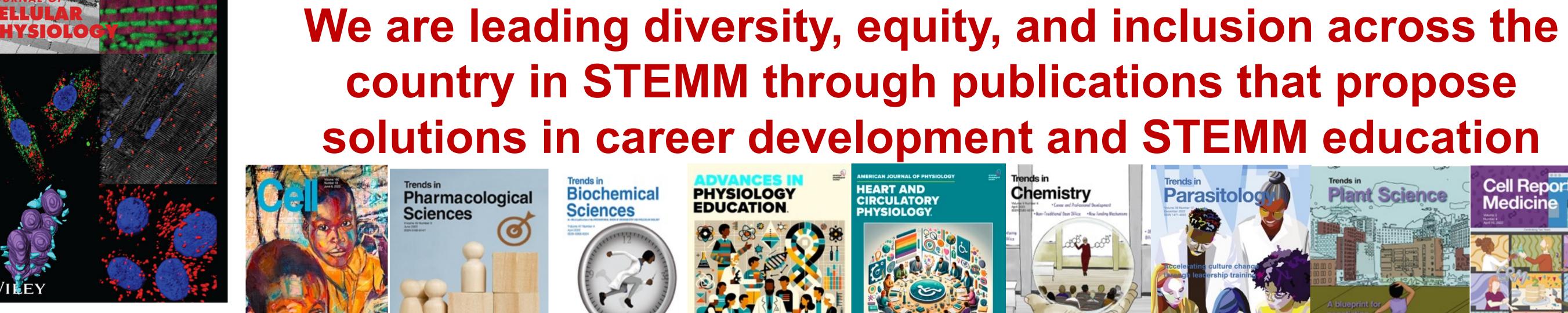


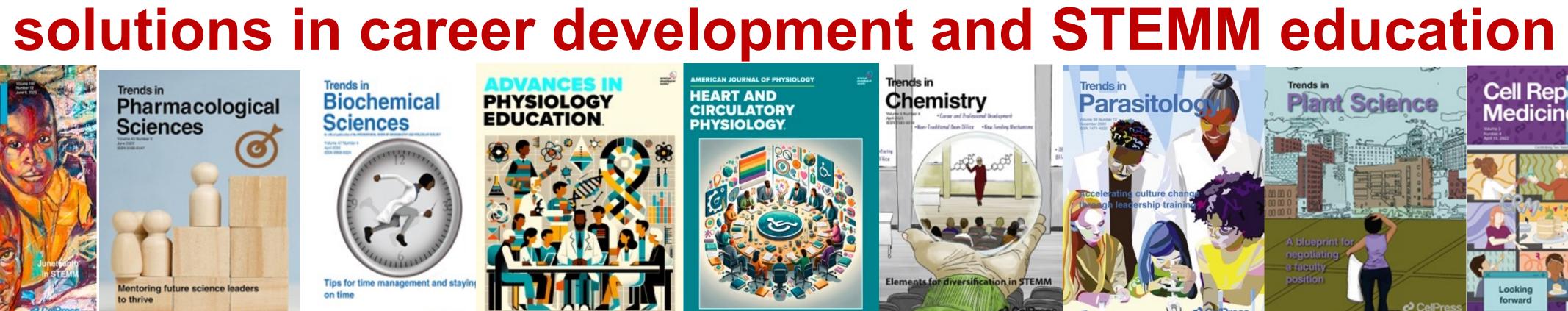


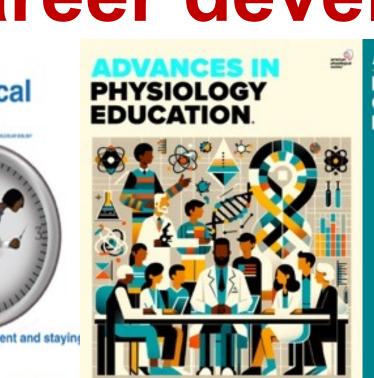








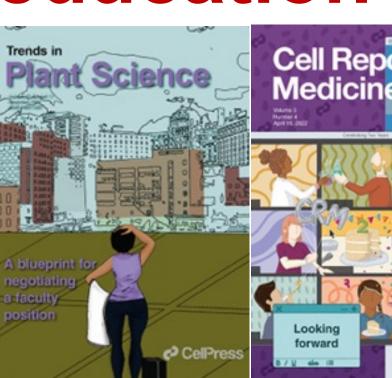




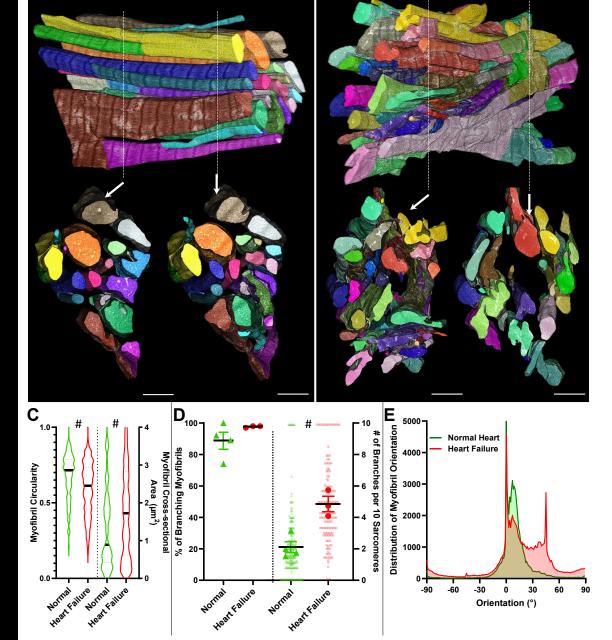


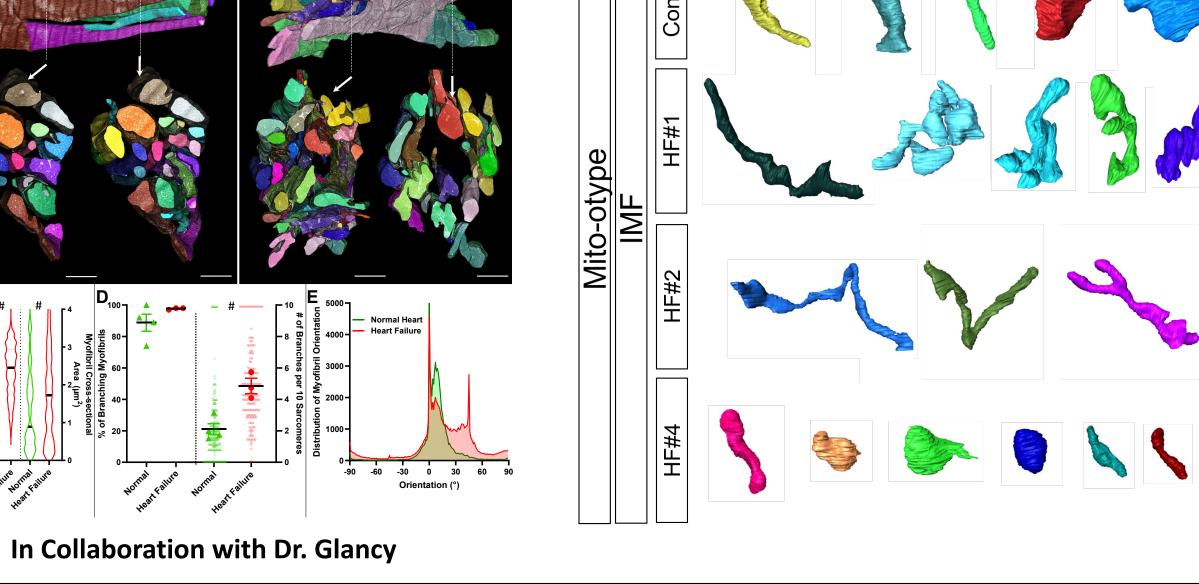






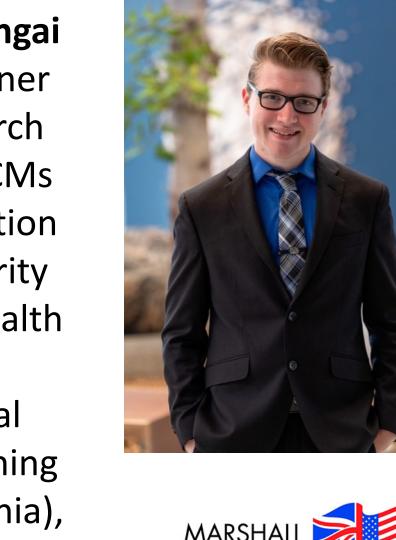
We are looking at how organelles and fibers 3D structure changes in human tissue and diseases Effective Mentorship and broader participation in STEMM via data-backed techniques: Hinton Lab Undergraduate Awards





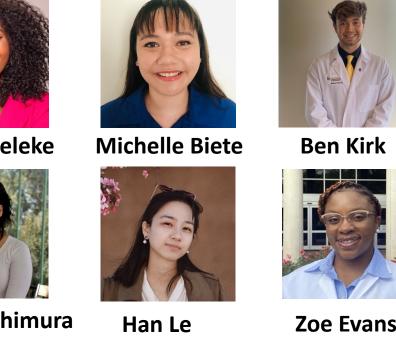


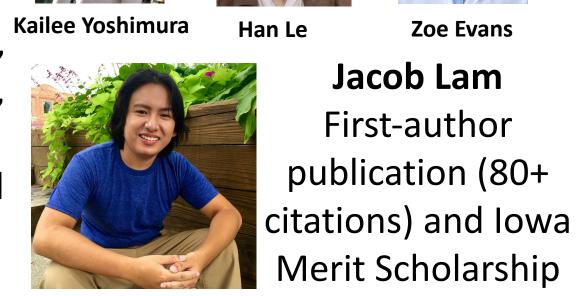




Kit Neikirk Marshall Scholarship, 2nd Place Undergraduate Poster Award ASCB MAC/Education (2) times), ABRCMs Poster Presentation Award, Promega DOORs Scholar, Chancellor's Scholarship, 1st Place in Division for Translational and Clinical MARSHALL SCHOLARSHIPS Pharmacology ASPET



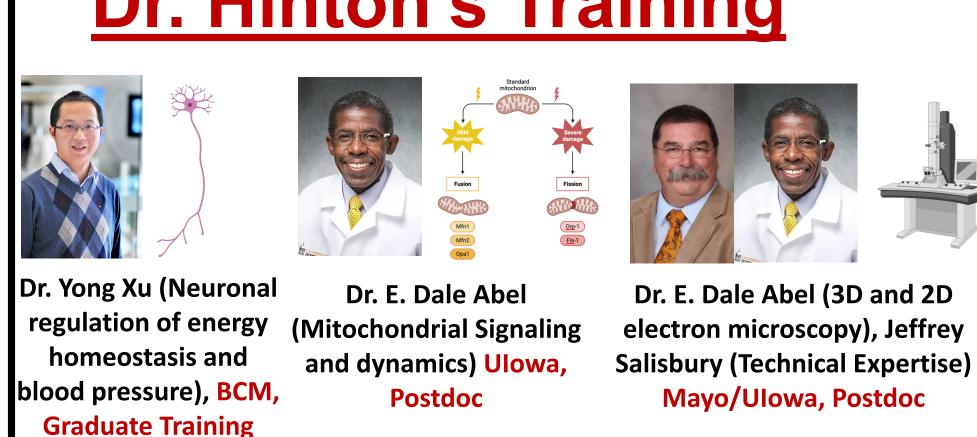






Bryanna Shao First-author publication

Dr. Hinton's Training

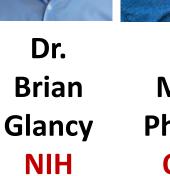


Collaborators: Long-Term







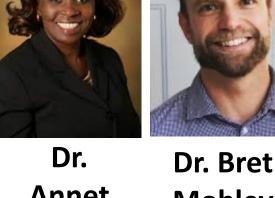




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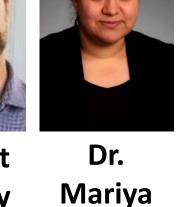




Kirabo



Program



Sweetwy

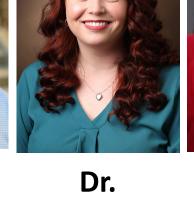
UWash







Davis



Haysetta Steven Shuler

WSSU

Bristol Myers Squibb UNCF A mind is a terrible thing to waste? Chan '

Zuckerberg

Initiative @

Project-Specific Funding Contact Us



Lab X/Twitter: @AtHinton https://www.linkedin.com/in/biogee

<u>k26/</u> **Email:**

antentor.o.hinton@Vanderbilt.edu