



Video Library for 4th annual
Dr. Samuel M. Nabrit
Conference for Early Career Scholars

June 16 - 17, 2022



BROWN

Thursday, June 16

2:00–2:20 p.m. **MCB Department Chair's Welcome and Introductions**

*Opening Session
Video*

Walter Atwood, Ph.D.

Biographical sketch of Dr. S.M. Nabrit
Abigail Brown, Ph.D.

2:20–3:20 p.m. **Opening Keynote Address**

Alexis Stranahan, Ph.D. (Augusta University)

Basic mechanisms and personal experience with the brain's response to stress

3:30–4:30 p.m. **Invited Research Talks**

Moderator: Alison DeLong, Ph.D.

Valerie Tornini, Ph.D. (Yale University)

Big roles for tiny peptides in vertebrate neurodevelopment

Alexandra Powell (Texas A&M University College of Medicine)

Classical complement pathway evasion mechanisms utilized by lyme disease and relapsing fever Borrelia

Pamela Rios Coronado (Stanford University)

Challenging traditional cell fate decisions during coronary artery development

John Santiago, Ph.D. (Brown University)

Gene expression correlation analysis of livers undergoing normothermic machine perfusion identifies potential predictive biomarkers of liver functional capacity.

Friday, June 17

9:00–10:00 a.m. **Morning Welcome and Invited Research Talks**

[Video](#)

Moderator: Alison DeLong, Ph.D.

Karina Vargas, Ph.D. (Marine Biological Laboratory)

Alpha-Synuclein participates in clathrin-mediated SVE through regulation of AP2 complex.

Novalia Pishesha, Ph.D. (Harvard University)

Engineering the modularity of an alpaca-derived single domain antibody fragment that targets Class II MHC to induce antigen-specific tolerance

Ines Patop (Brandeis University)

The splicing factor MBL forms a self-regulatory circuit by modulating back splicing in a cell type and isoform specific mechanism

Earnest Taylor, Ph.D. (University of North Carolina)

Age and oxidative stress regulate NRF2 homeostasis in human articular chondrocytes

10:10–11:30 a.m. **The UNC Chancellor's Science Scholars Program:**

[Video](#)

How modeling inclusive excellence can lead to institutional transformation

Moderator: Stacey Lawrence, Ph.D. (Senior Associate Director for STEM Initiatives
Sheridan Center for Teaching & Learning)

Panelists: Thomas C. Freeman, Ph.D., Executive Director, UNC Chancellor's Science
Scholars Program

Gabrielle Whiten, CSS 2/UNC 2018, Ph.D. candidate in Pharmacology at NYU

Kyle Oliveira, CSS 4/UNC 2020, Ph.D. student in Marine Science at the
University of Maine

Richard Superfine, Ph.D., Taylor-Williams Distinguished Professor, Chair of the
Department of Applied Physical Sciences, UNC

Friday, June 17 continued

1:45–2:45 p.m. **Invited Research Talks** [Video](#)

Moderator: Michelle Dawson, Ph.D.

Saria McKeithen-Mead, Ph.D. (MIT)

Mistimed integration of an integrative and conjugative element leads to death in naïve bacterial hosts

Zer Vue, Ph.D. (Vanderbilt University)

3D Reconstructions of mouse skeletal muscle reveal a decrease in the MICOS complex and altered mitochondrial networks

Chyna Gray (Brown University)

Promoting tolerance: A compelling role for VISTA in CD4+ treg- mediated sepsis mortality

Elif Tunc-Ozcan, Ph.D. (Northwestern University)

Hippocampal neuronal activity and BMP signaling in antidepressant action

2:55–4:15 p.m. **Pandemic Perspectives on Research Training : What to Keep, What to Retire** [Video](#)

Moderators: Miles Mundy and Carolina Mejia Peña, Ph.D.

Panelists: Chyna Gray (Brown University)

John Hernandez, Ph.D. (Brown University)

Saria McKeithen-Mead, Ph.D. (MIT)

Pam Rios Coronado (Stanford University)

4:30–4:50 p.m. **Joint Session with New England Regional SACNAS Meeting** [Video](#)

Welcome, opening remarks and blessing

4:55–6:00 p.m. **Keynote Address**

Kristy Red-Horse, Ph.D. (Stanford University)

Coronary artery development and regeneration
