

**The Nineteenth Annual
Robert M. & Martha W. Ross
Dartmouth Chemistry Lecture Series 2023-2024**



Squire Booker

Evan Pugh Professor of Chemistry and of Biochemistry and Molecular Biology at The Pennsylvania State University and holds the Eberly Family Distinguished Chair in Science. An Investigator of the Howard Hughes Medical Institute.

“The Rise of Antibiotics and Antibiotic Resistance”

Wednesday, September 27

4:00 P.M.

006 Steel Hall, North College Street, Hanover, NH
Refreshments at 3:30 P.M. Burke Laboratory Level One Lobby

“A Radical Solution for C(sp³)–C(sp³) Bond Formation during the Biosynthesis of Macrocyclic Membrane Lipids”

Thursday, September 28

10:30 A.M.

006 Steel Hall, Refreshments at 10:00 A.M.

Squire J. Booker is an Evan Pugh Professor of Chemistry and of Biochemistry and Molecular Biology at The Pennsylvania State University and holds the Eberly Family Distinguished Chair in Science. He is also an Investigator of the Howard Hughes Medical Institute. Booker received a BA degree with a concentration in Chemistry from Austin College (Sherman, Texas) in 1987. He earned his Ph.D. degree from the Massachusetts Institute of Technology under Professor JoAnne Stubbe (1994) and was supported by NSF–NATO and NIH Fellowships for postdoctoral studies in the laboratories of Dr. Daniel Mansuy (Université René Descartes, Paris, France) and Professor Perry Frey (Institute for Enzyme Research, University of Wisconsin–Madison), respectively. In 1999 he moved to The Pennsylvania State University as an independent investigator. Booker’s research concerns novel mechanisms and pathways for the biosynthesis of various natural products and cellular metabolites, focusing on enzymes that use S-adenosylmethionine and iron-sulfur clusters to catalyze reactions via radical mechanisms. Currently, he is an Associate Editor for the ACS journal Biochemistry and Deputy Editor for ACS Bio & Med Chem Gold.