

MARCH 4, 2024

APEX LECTURE SERIES



XUEWU
ZHANG

UT Southwestern Medical Center

“Structures of the Innate Immunity Adaptor STING:
From Mechanisms to Potential Therapeutics”

Monday, March 4, 2024, 4:15 p.m. CT, 1220 MRB III

Sponsored by the Department of Pharmacology

A reception will follow the lecture in the MRBIII atrium.

STING is a critical innate immunity adaptor protein in the cytosolic DNA-sensing pathway. Activation of STING by the second messenger cGAMP triggers a host of immune responses, including interferon production, autophagy and inflammation. STING-mediated immunity is not only essential for responses to bacterial and viral infection, but also plays an important role in tumor suppression. STING therefore has been extensively studied and exploited for therapeutic purposes. In this seminar, I will present our recent cryo-EM structures of STING in various states, and STING bound to several small drug-like molecules that have potential to be developed into therapeutics. The structural analyses provide key insights into the fundamental regulatory mechanisms of STING, and guide drug development.

Add to Calendar!



VANDERBILT
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