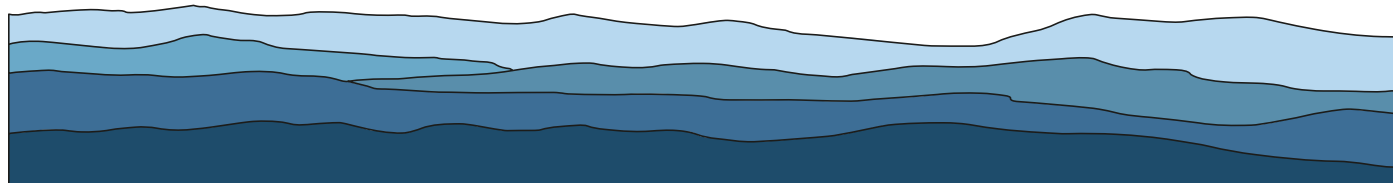


HIGHLANDS IN CHEMISTRY SEMINAR SERIES



AMY LANE

UNIVERSITY OF NORTH FLORIDA

“Marine Bacteria as Biochemical Factories”

Marine bacteria are microscale biochemical factories, utilizing enzymes to catalyze assembly lines of chemical reactions that ultimately yield a plethora of small molecules. These natural products offer myriad practical applications as pharmaceuticals and agrochemicals. My research program aims to elucidate and apply the enzyme-catalyzed chemical reactions of bacterial molecular assembly lines to unleash the chemical synthesis potential of microorganisms. This presentation will highlight my group's recent findings that unveil the aptitude of marine bacteria for biosynthesis of natural products such as the nocardioazine diketopiperazine natural products. These findings will highlight biosynthetic approaches for accessing and expanding the wealth of bioactive small molecules provided by nature.

FEBRUARY 25, 2022

2:30PM

HAHN HALL NORTH 140

FACULTY HOST:
EMILY MEVERS

