



WESTERN MICHIGAN UNIVERSITY
College of Arts and Sciences
Department of Chemistry

The Department of Chemistry

Presents

Professor Christian Melander

George and Winifred Clark Professor, Department of Chemistry and Biochemistry
University of Notre Dame

**SEMINAR: Development of Small Molecule Antibiotic Adjuvants Against
Gram-Negative Bacteria**

Abstract

Antibiotic resistance and the rise of antibiotic resistant pathogens are threatening the vast strides we have made over the past century in human medicine. To combat the threatening tide of multi-drug resistant (MDR) bacteria, we have been exploring the use of small molecules based upon naturally occurring nitrogen-dense marine natural products to serve as adjuvants for antibiotic treatment regimens. The talk will detail our efforts to develop small molecule leads that inhibit and disperse bacterial biofilms both in vitro and in vivo, and the application of knowledge gained through mechanistic studies to identify additional small molecules that are able to reverse both acquired and intrinsic resistance in MDR pathogens.

Monday, October 29th, 2018

4:00 p.m.

Chemistry Building

Room 1220