

Tkach, Colleen

From: Inform
Subject: EM: Dept. of Natural Sciences Seminar Friday 11/08

From: Lauran Soto

DEPARTMENT OF NATURAL SCIENCES SEMINAR ANNOUNCEMENT:

"Blocking the Brass Dagger: Uncovering Bacterial Defense Mechanisms Against Antimicrobial Copper and Zinc"

Pete Chandangsu
Assistant Professor of Biology
Dept. of Natural Sciences

Friday, November 8th
Burns Lecture Hall (NS E007)
12:15-1:15 PM

ABSTRACT: As antibiotic resistance spreads quickly among pathogens, the need for novel antimicrobial treatments is urgent. A promising avenue forward are metal-based antimicrobials. Metals have long been appreciated for their antimicrobial properties. Ancient Egyptians used copper and silver salts as early as 1500 BCE as an astringent, food preservative, and disinfectant. However, the precise mechanisms by which metals kill bacteria are not fully understood. Here, I will share my lab's work using microbial physiology, genetics, and biochemistry to understand how bacteria sense and respond to metal stress and how we can leverage this knowledge to develop new means of combating bacterial infection.

Find additional seminar information here: <https://www.kecksci.claremont.edu/seminars/>
Best,
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