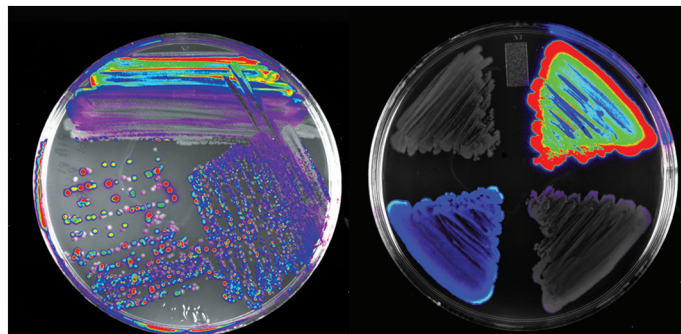
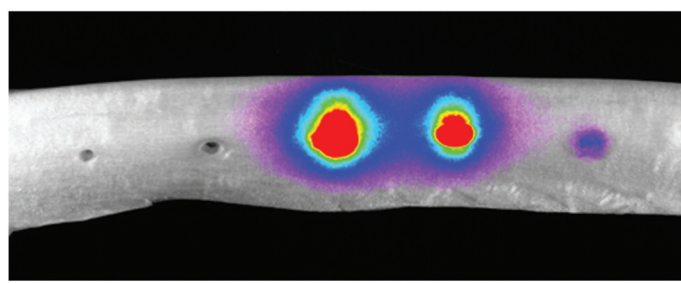
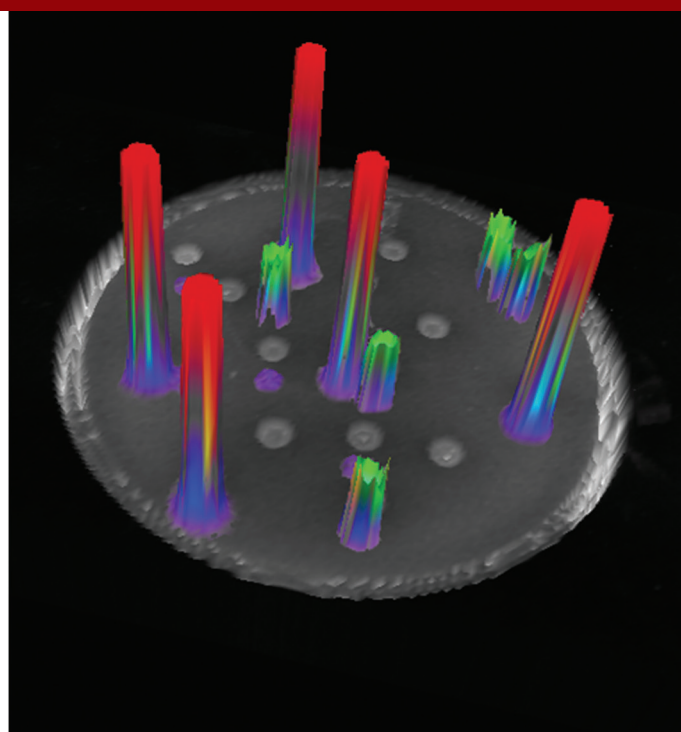
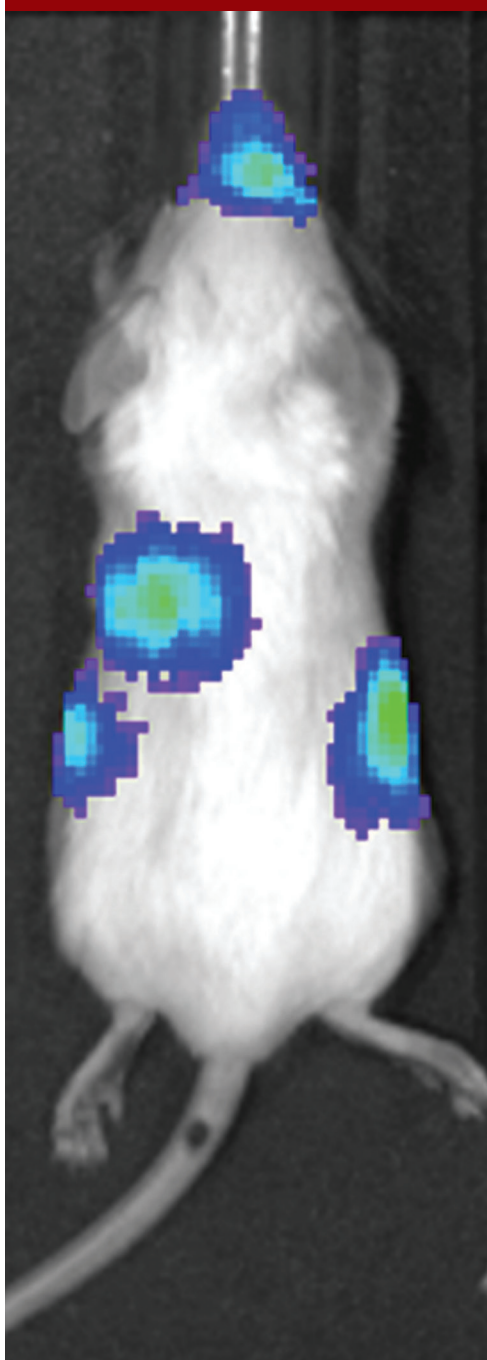


AEM

Applied and Environmental Microbiology



published twice monthly by



AMERICAN
SOCIETY FOR
MICROBIOLOGY

July 2013

AEM

Volume 79, Number 13

Pages 2345-6780