

Guest lecture

Microbial Interactions in Biofilms: Community context and constrained diversification

Assoc. Prof. Dr. Henriette Lyng Røder

Department of Food Science
University of Copenhagen, Denmark

Polymicrobial biofilms are widely considered evolutionary hotspots. However, the role of interspecies interactions in shaping microbial behaviour remains unclear. Studies across food-associated and environmental isolates show that interactions between coexisting bacteria can induce biofilm formation and establish mutualistic relationships that enhance persistence. Using defined multispecies systems and controlled experimental approaches, work in model biofilm communities further demonstrates that community context can constrain adaptive diversification, with species differing markedly in their evolutionary responses to coexistence.

These findings show that microbial behaviour emerges from interactions within spatially structured communities and point to the need for community-level approaches to understand persistence in food and related environments.

When: Thursday, July 2nd 2026, 12.15 pm s.t.

Where: Lecture Hall M, Building HA

Datenschutz:

Bitte nehmen Sie unter folgenden Link unsere Datenschutzbestimmungen zur Kenntnis
<https://www.vetmeduni.ac.at/datenschutzerklaerung-veranstaltungen>