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OMNI-REUNIS Super-Spreader Seminar Series

These seminar series is intended to provide faculty members, OMNI-RÉUNIS affiliates and HQPs a platform to present their research, share experiences and foster collaboration among OMNI-RÉUNIS, the Emerging Infectious Disease Modelling (EIDM) networks, and the scientific community.

TITLE: SOURCE TRACKING OF SPORADIC INFECTIONS - EXEMPLIFIED WITH SALMONELLA AND CAMPYLOBACTER

Zoom (Virtual Seminar) | Thursday, Nov 2, 2023 | 11:00 am-12:00 pm EDT

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MEET THE PRESENTER

MS. MAJA LYKKE BRINCH

Maja Lykke Brinch is a PhD student at the National Food Institute at the Technical University of Denmark, working with Professor Tine Hald. She is a visiting scholar at University of Guelph and University of Prince Edward Island. Her PhD focuses on strategies to reduce the burden of antimicrobial resistance. She is working with different source attribution methodologies and compartmental models to investigate the transmission of resistance between animals and humans and to assess the impact of prevention strategies, such as vaccines.

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SEMINAR TITLE AND ABSTRACT

SOURCE TRACKING OF SPORADIC INFECTIONS - EXEMPLIFIED WITH SALMONELLA AND CAMPYLOBACTER

Prevention of the spread of foodborne diseases is important for the improvement of public health. To effectively prioritize intervention against various foodborne pathogens, such as Campylobacter and Salmonella, it is essential to know the most common sources of infection. Source attribution models link sporadic human cases of a specific illness to food sources and animal reservoirs. A variety of methodologies and data inputs have been applied through the years. In this talk, I will present the two source attribution approaches we have used in Denmark: a classical Bayesian approach and a machine learning model. I will discuss some benefits and drawbacks of the different methodologies and the data inputs used, followed by a look at the next steps for source attribution models.

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