

# Lecture Series & Workshops 2019-2021

From Single Organisms to Systems Ecology and Evolution

## European challenges in the control of multidrug-resistant microorganisms:

Overview and experience from The 'European Survey on carbapenemase-producing Enterobacteriaceae' (EuSCAPE) project

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- Campus Belval, Maison du Savoir; Amphi 3.510

\* Dr. Albiger is invited as an independent expert and is alone responsible for the views expressed in the presentation and they do not necessarily represent the views, decisions, or policies of the institutions with which she is affiliated.

For the **meet, eat & greet** afterwards, please register for by mail to [secretary@microbiology.lu](mailto:secretary@microbiology.lu) - limited places available!

The global rise of multidrug-resistant Gram-negative bacteria is alarming and represents an increasing threat to healthcare delivery and patient safety in Europe and beyond. The past decades have seen a rapid increase of resistance to carbapenems in Gram-negative bacteria.

In 2012, the European Centre for Disease Prevention and Control (ECDC) launched the 'European survey of carbapenemase-producing Enterobacteriaceae (EuSCAPE)', a three-year project to improve the understanding of the occurrence and epidemiology of carbapenem resistance in Enterobacteriaceae, to increase awareness of the spread of these resistant bacteria and to build laboratory capacity for diagnosis and surveillance in Europe.

The EuSCAPE project provided the first comprehensive overview of the epidemiological situation of carbapenemase-producing Enterobacteriaceae (CPE) in Europe over time. The EuSCAPE project highlighted the urgent need for a coordinated European effort for surveillance, control and prevention of CPE in Europe, but it contributed to the improvement of the capacity and ability to detect CPE.

Building on the EuSCAPE project, in 2017 ECDC established a new network, the European Antimicrobial Resistance Genes Surveillance Network (EURGen-Net) to perform regular structured surveys of carbapenem- and/or colistin-resistant Enterobacteriaceae (CCRE) in Europe. This network continues to support the laboratory capacity building for detection and surveillance of CCRE in Europe.

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