

STSM at the German Federal Institute for Risk Assessment (BfR) (25th-29th September 2022)

Recently I took part in STSM training in microbial whole-genome sequencing and the application of the phenotypic AMR-Tests for determining the mechanism of bacterial resistance. The training was conducted in the Unit Epidemiology, Zoonoses, and Antimicrobial Resistance Department Biological Safety and the National Study Centre for Sequencing in Risk Assessment of BfR. Dr. Burkhard Malorny, Dr. Mirjam Grobbel, and Dr. Maria Borowiak supervised the STSM.

I expanded my skills in sequencing methods and AMR analysis during my stay. The first part of the training analyzed bacterial resistance mechanisms by AMR testing. The next part of the training was focused on sequencing, especially a presentation of short-read Illumina and long-read Oxford Nanopore Technologies (ONT) sequencing. The advantages and disadvantages of the different sequencing platforms were mainly characterized.

I am grateful to RIBMINS COST Action for allowing me to carry out this STSM. I encourage everyone to participate in this type of scientific activity. I expanded contact with the experts in the field and observed them during the routine laboratory everyday work. The knowledge gained during the training will result in new research ideas relevant to public and animal health safety assurance systems.



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