



Image: Suzy Dubot

SHORT TERM MISSIONS

Short Term Missions (STMs) are small travel grants with the aim of:

- Sharing scientific expertise, methodologies, equipment and facilities to harmonise the existing approaches and methodologies within the large OHEJP European network
- Driving the research forward in a collaborative and non-duplicative fashion to strengthen both the scientific capacity within the OHEJP
- Contributing to future prevention, preparedness, detection and response of the EU to foodborne and other emerging threats across human-animal-environmental sectors.

Training in bioinformatics to study the dynamics of *E. coli* in laying hens: Training on the application of source attribution models



Name: Skills development missions
Home Institute: [VISAVET-UCM](#), Spain
Mission Hosting Institute: [DTU](#), Denmark
Duration of mission: 4 weeks

The aim of this mission was to improve the participants' existing bioinformatics knowledge. The National Food Institute of DTU is part of the Centre of Genomic Epidemiology which has several web services for the analysis of whole genome sequences.

During this month, the participant learned to perform phylogenetic analysis using the complete DNA sequence and worked in the construction of phylogenetic trees with both programs of the Centre of Genomic Epidemiology and with other web-available programs.

They also analysed resistance genes and how they move between bacteria, focusing on mobile genetic elements. The participant also had the opportunity to further analyse their own research data and participated in collaborative discussions where they were given scientific advice and ideas for the work that they can do next.

During their stay, the participant also attended some sessions of a course where they were taught to use some tools for the analysis of WGS data.

“...I not only learned a lot, but I also met colleagues from other parts of the world who work on similar tasks. We were able to share ideas. It was a motivating experience both academically and personally to know other places and cultures, and different way of working. I want to thank OHEJP and members of the DTU for making me feel comfortable in an unknown place...”

Irene Aldea Ramos,
VISAVET-UCM

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