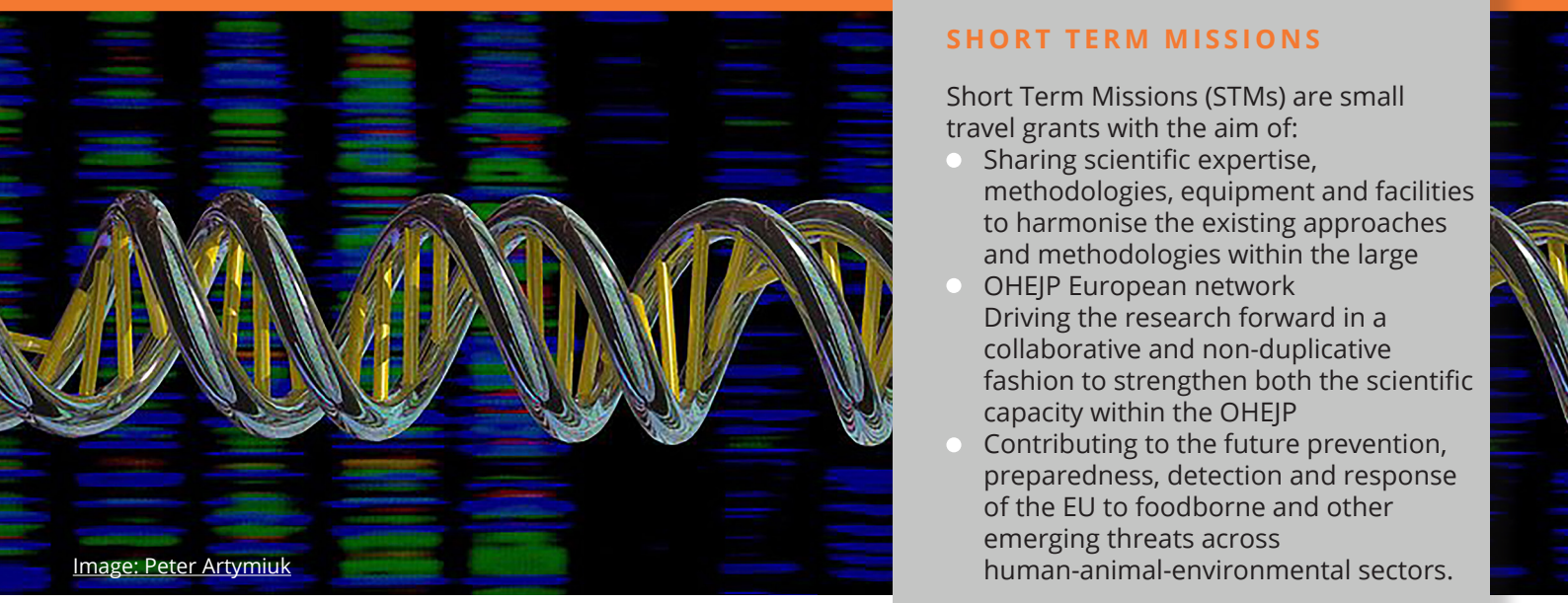

Image: Peter Artymiuk

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 the future prevention, preparedness, detection and response of the EU to foodborne and other emerging threats across human-animal-environmental sectors.

Start-up of an efficient sequencing facility

I will definitely use the new knowledge to advance and streamline several steps of our ongoing sequencing projects and routine workflows… The connections made with researchers and technical staff will be valuable for the future. I am very grateful to the OHEJP for granting this opportunity. I would also like to express gratitude to SSI and the kind staff for allowing me into their labs."

Cathrine Arnason Bøe,
Norwegian Veterinary Institute

Theme: Foodborne Zoonoses, AMR and Emerging threats
Home Institute: Norwegian Veterinary Institute, Norway
Mission Hosting Institute: SSI, Denmark
Duration of Mission: 1 week

The aim of this mission was to develop skills on the management of a sequencing facility using an automated workflow. The project SEQ-TECH at the Norwegian Veterinary Institute (NVI) has recently acquired equipment to set-up an automated high throughput sequencing platform. However, the routine workflow is not yet entirely established, and the potential of the different machines not fully exploited. By visiting the SSI and following their weekly routine for library preparation and high-throughput sequencing (HTS), the participant aimed to learn how to improve the NVI workflow.

During this mission, routine whole genome sequencing (WGS) of bacteria and virus (SARS-CoV-2) were performed, the data quality control process was described and one-on-one meetings with key personnel were held. Inspiration and several ideas of how to improve routine sequencing and start novel sequencing tasks was gained by observing the SSI workflow and quality control pipeline. In addition, sharing of experiences regarding Nanopore sequencing and WGS will be valuable going forward.

The STM was a revelation for all the possibilities available at NVI, using the new equipment, to implement higher throughput sequencing for surveillance, preparedness, diagnostics and research in the near future.

One Health EJP has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 773830.