GENOMIC EPIDEMIOLOGY — DAY 7			
Time	**Activity Description**	**Intended Learning Outcomes** *After completion, trainees will (be able to):*	**Relevance** *Why this is important for you as:*
1510-1640	Visualization and Genomes Part 1 (François Lebreton)	Learn about different genomic comparison tools (such as BRIG, Proksee..), their limits and advantages Understand Proksee application in analyzing food- and waterborne pathogen epidemics Identify conserved regions and genomic rearrangements within and between microbial species.	**Bioinformaticians** should be able to do comparative analysis of microbial genomes and identification of genomic variations essential for understanding microbial evolution, diversity and pathogen surveillance. **Microbiologists** must learn to use tools for comparative analysis of microbial genomes. **Epidemiologists** must develop skills in interpreting genome sequences and the applications in analyzing foodborne pathogen epidemics.

Details

Visualization and Genomes

This course focuses on advanced techniques for visualizing genomic data, with a particular emphasis on circular comparison methods. Initially, various tools will be presented (limits and advantages) before focusing on Proksee, with a practical example highlighting its application in foodborne pathogen epidemics.