

Week 1	Day 1	Day 2	Day 3	Day 4	Day 5
Morning		MODULE 2. DNA SEQUENCING Sequencing technologies (9:30 – 11:00)		MODULE 1. BIODIVERSITY Phylogeny (theory) (9:30 – 11:00)	MODULE 3. GENOMIC EPIDEMIOLOGY Gene-by-gene approach II (09:30 – 11:00)
		MODULE 2. DNA SEQUENCING Galaxy platform (11:10 – 12:00)	MODULE 3. GENOMIC EPIDEMIOLOGY Gene-by-gene approach I (10:40 – 12:00)	MODULE 1. BIODIVERSITY Phylogeny (practical) (11:10 – 12:40)	MODULE 5. SURVEILLANCE Case studies: enteric <i>E. coli</i> in a One Health perspective (11:10 – 12:40)
Lunch					
Afternoon	MODULE 5. SURVEILLANCE Human surveillance on EU level (14:00 - 15:30)	MODULE 2. DNA SEQUENCING Raw data and Assembly (14:00 – 15:30)	MODULE 3. GENOMIC EPIDEMIOLOGY Genomic epidemiology – visualization and practical applications (13:30 – 15:30)	MODULE 3. GENOMIC EPIDEMIOLOGY Molecular epidemiology & transmission (14:00 – 15:30)	MODULE 3. GENOMIC EPIDEMIOLOGY Genomic Epidemiology applied to <i>Listeria</i> and cluster detection (14:00 – 15:30)
	MODULE 1. BIODIVERSITY Biodiversity (15:40 - 17:10)	MODULE 5. SURVEILLANCE Food-side investigation (15:40 – 16:40) EFSA-ECDC Q&A session (16:40 – 17:10)		MODULE 5. SURVEILLANCE Generalities on <i>Shigella</i> (15:40 – 15:55) Background on the biology of enteric <i>E.coli</i> (15:55 – 17:10)	

Week 2	Monday	Tuesday	Wednesday	Thursday	Friday
Morning	MODULE 4. RESISTANCE ELEMENTS Antibiotic resistance genes (9:30 – 11:00)	MODULE 5. SURVEILLANCE Foodborne pathogens epidemiological investigations (9:30 – 11:00)	MODULE 4. RESISTANCE ELEMENTS MGE – Plasmids: (9:30 – 11:00)		MODULE 5. SURVEILLANCE Background of <i>Listeria</i> (9:30 – 11:00)
	MODULE 4. RESISTANCE ELEMENTS Antibiotic resistance genes or mutations (11:10 – 12:40)	MODULE 5. SURVEILLANCE Foodborne pathogens epidemiological investigations (11:10 – 12:40)	MODULE 4. RESISTANCE ELEMENTS MGE – Plasmids detection (11:10 – 12:40)	MODULE 6. APPLICATIONS Analysis of data in groups (10:30 – 12:30)	MODULE 5. SURVEILLANCE Case-control studies on <i>Listeria</i> (11:10 – 12:40)
Lunch					
Afternoon	MODULE 1. BIODIVERSITY Bacterial strain nomenclature and epidemiological tracking (14:00 - 15:30)	MODULE 5. SURVEILLANCE WGS systems for One Health (14:00 – 15:00)	MODULE 4. RESISTANCE ELEMENTS Case study : plasmid outbreak (14:00 – 15:30)	MODULE 6. APPLICATIONS Analysis of data in groups (14:00 – 15:30)	MODULE 6. APPLICATIONS Presentations of group analysis (14:00 – 15:30)
	MODULE 5. SURVEILLANCE Case study: genomic surveillance and transmission of foodborne pathogens in a One Health perspective - <i>Klebsiella</i> (15:40 – 17:10)	MODULE 3. GENOMIC EPIDEMIOLOGY Visualization & genomes (15:10 – 16:40)	MODULE 6. APPLICATIONS Introduction of the practical analysis in group (15:40 – 16:25)	MODULE 6. APPLICATIONS Analysis of data in groups (15:40 – 17:00)	

