

Workshop on Whole Genome Sequencing and Analysis for Microbial Diagnostics

TIME	Monday 19th of March 2018	Tuesday 20th of March 2018	Wednesday 21st of March 2018	Thursday 22nd of March 2018
9:00-9:15		Welcome back and intro	Welcome back and intro	Welcome back and intro
9:15-9:30		VTEC diagnostics and the CGE databases	The Bacterial Analysis Pipeline and batch upload	For a limited number of participants (max. 8), we offer an extra day solely focused on analysing the participants' own Data. It is a prerequisite for signing up for this day that you have whole genome sequence data available.
9:30-9:45	Registration and breakfast			
9:45-10:00			Exercise 5	
10:00-10:15	Welcome and presentation round	Exercise 2 Computer work w. VTEC (VirulenceFinder, SerotypeFinder, myDBFinder)	Computer work - batch upload, pipeline	
10:15-10:30				
10:30-10:45	Intro to WGS and its applications in microbial diagnostics			
10:45-11:00	Sequencing techniques	Coffee	Coffee	
11:00-11:15		Exercise 2 continued	Wrap-up of computer work	
11:15-11:30			CGE and the Global Microbial Initiative (Ole Lund, DTU)	
11:30-11:45	Coffee			
11:45-12:00	The raw data, assembly, and quality measures	Wrap-up of computer work	Q/A to CGE and GMI	
12:00-12:15		Lunch	Lunch	Lunch
12:15-12:30				
12:30-12:45				
12:45-13:00	Lunch			
13:00-13:15	Introduction to single-isolates, single CGE services	Applying the SNP/ND concept for phylogenies (Johanne Ahrenfeldt, DTU)	Metagenomics	Continue analysing participants' own data
13:15-13:30				
13:30-13:45	Introduction to single-isolates, single CGE services	Exercise 3 Computer work - phylogeny (NDtree and CSIPhylogeny)	Exercise 6	
13:45-14:00			Computerwork - MGMapper	
14:00-14:15	Introduction to Exercise 1	Exercise 3 continued	Wrap-up of computer work	
14:15-14:30				
14:30-14:45	Exercise 1 Computer work w. single isolates, single CGE services (KmerFinder, MLST, ResFinder, PlasmidFinder)	Coffee	Coffee	
14:45-15:00		Exercise 3 continued	Real World Applications (Henrik Hasman, Statens Serum Institut)	
15:00-15:15				
15:15-15:30		Wrap-up of computer work		
15:30-15:45	Coffee	Other tools for typing and phylogeny	Q/A to Real World Applications	
15:45-16:00			Evaluation and workshop ends	Evaluation and workshop ends
16:00-16:15	Exercise 1 continued	Exercise 4 Computer work - cgMLST and RUCS		
16:15-16:30				
16:30-16:45				
16:45-17:00	Wrap-up of computer work	Wrap-up of computer work		
		Workshop dinner in the evening		