

Workshop on Whole Genome Sequencing and Analysis for Microbial Diagnostics

TIME	Monday 27th of March 2017	Tuesday 28th of March 2017	Wednesday 29 of March 2018
8:30-9:00		Breakfast	Breakfast
9:00-9:15	Registration and breakfast	Welcome back and intro	Welcome back and intro
9:15-9:30		VTEC diagnostics	The Bacterial Analysis Pipeline and batch upload
9:30-9:45	Welcome and presentation round		Exercise 3
9:45-10:00	Intro to WGS and its applications in microbial diagnostics	Computer work w. VTEC (VirulenceFinder, SerotypeFinder, MyDBFinder)	
10:00-10:15			
10:15-10:30	Illumina Seq. (Pernille Albertus, Illumina)	Coffee	Coffee
10:30-10:45			
10:45-11:00	Coffee	Applying the SNP/ND concept for phylogenies (Johanne Ahrenfeldt, DTU)	Wrap-up of computer work
11:00-11:15	Sequencing techniques, the raw data, assembly and quality measures		CGE and the Global Microbial Identifier initiative (Ole Lund, DTU)
11:15-11:30			
11:30-11:45	Lunch	Lunch	Lunch
11:45-12:00			
12:00-12:15	Introduction to single-isolates, single CGE services	Exercise 4	Metagenomics
12:15-12:30			Computer work - phylogeny (NDtree and CSIPhylogeny)
12:30-12:45	Exercise1	Preparations of participant presentations	
12:45-13:00			
13:00-13:15	Computer work w. single isolates, single CGE services (KmerFinder, MLST, ResFinder, PlasmidFinder)	Coffee	Wrap-up of computer work
13:15-13:30			
13:30-13:45	Coffee	Coffee	Coffee
13:45-14:00			
14:00-14:15	Exercise 2	Participant presentations and discussions	Real World Applications (Henrik Hasman, Statens Serum Institute)
14:15-14:30			
14:30-14:45	Computer work w. data from Harris et al 2013 and Grad et al 2012	Other tools for typing and phylogeny	Evaluation and course ends
14:45-15:00			
15:00-15:15	Wrap-up of computer work	Workshop dinner in the evening	
15:15-15:30	Intro to Exercise 2		
15:30-15:45	Exercise 2		
15:45-16:00			
16:00-16:15			
16:15-16:30			
16:30-16:45			
16:45-17:00			