Schedule for Metagenomics NGS practical course

Day 1 – Monday

09:00-09:10	Welcome and Introduction: Aims and outline of the course
09:10-10:15	**Lecture:** Introduction to NGS and Metagenomics
10:15-10:35	Coffee break
10:35-12:00	**Practical session:** Illumina 16S amplicon generation: part1
12:00-13:00	Lunch break
13:00-14:45	**Practical session:** Illumina 16S amplicon generation: part2
14:45-15:05	Coffee break
15:05-15:45	**Lecture:** Short read sequencing technology
15:45-17:00	**Practical session:** Sequencing on Nextseq2000

End of day 1

Day 2 – Tuesday

09:00-10:00	**Lecture:** Introduction to long read sequencing
10:00-12:30	**Practical session:** Oxford Nanopore DNA Library preparation
12:30-13:30	Lunch break
13:30-15:30	**Practical session:** Set up and start of GridIONX5 sequencing run
15:30-15:50	Coffee Break
15:50-16:20	**Practical session:** Sequencing data QC in real time
16:20-17:15	FGCZ tour

End of day 2

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Day 3 - Wednesday

09:00-10:00	**Lecture:** Introduction to data analysis; format and QC of raw data
10:00-10:30	**Lecture:** Introduction to SUSHI
10:30-11:00	Coffee break
11:00-11:30	**Practical:** Data QC
11:30 -12:15	**Lecture:** Introduction to 16S data analysis
12:15-13:15	Lunch
13:15-14:00	**Guest talk:** Meghna Swayambhu
14:00-16:30	**Practical:** 16S data analysis with QIIME2 (including coffee break)

End of day 3

Day 4 – Thursday

08:15-10:15	**Project discussion**
10:15-11:00	**Seminar:** "Avidity Sequencing on the AVITI System - Sequencing Reimagined" Molly He, CEO of Element Biosciences
11.00-12.00	**Lecture:** Introduction to shotgun metagenomics and Metagenome Atlas
12.00-13.00	Lunch
13:00-14:00	**Guest talk:** Dr. Silas Kieser
14:00-16:00	**Practical:** Metagenomic data analysis with Metagenome Atlas Part 1

End of day 4

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Day 5 - Friday

09:15-11:00	**Practical:** Metagenomic data analysis with Metagenome Atlas Part 2
11:00-12:00	**Lecture and Practical:** Assembly free approach to shotgun metagenomics
12:00-13:00	Lunch
13:00-14:00	**Guest talk:** Dr. Jonas Grossmann
14:00-15:00	**Lecture:** Introduction to metatranscriptomics
15:00 – 15.15	**Coffee break**
15:15– 16.15	**Practical:** Metatranscriptomic data analysis with Samsa2
16:15-16:30	Course feedback

End of course