Day 1 Monday 9th December 2024
Lectures and Laboratory practical session @ FGCZ Y59-G32/34/40

09:00-09:10	Welcome and Introduction: Aims and outline of the course
09:10-10:15	**Lecture: Lecture:** Introduction to Next Generation Sequencing
10:15-10:35	Coffee break
10:35-12:00	**Practical session** Illumina 16S amplicon generation: part1
12:00-13:00	Lunch break
13:00-14:30	**Practical session** Illumina 16S amplicon generation: part2
14:30-14:50	Coffee break
14:50-15:40	**Lecture:** Short read sequencing technology
15:40-16:45	**Practical session** Sequencing on Nextseq2000

End of day 1

Day 2 Tuesday 10th December 2024
Lectures and Laboratory practical session @ FGCZ Y59-G32/34/40

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 Promethion 24 sequencing run
15:30-15:50	Coffee Break
15:50-16:20	**Practical session** Sequencing data QC in real time and 'WIMP' analysis
16:20-17:15	FGCZ tour

End of day 2

Day 3 Wednesday 11th December 2024
Lectures and practical session @ FGCZ Y59-G30/G32/34

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

End of day 3

Day 4 Thursday 12th December 2024
Lectures and practical session @ FGCZ Y59-G30/G32/34

09:00-10:00	**Lecture:** Introduction to shotgun metagenomics and Metagenome Atlas
10:00-12:00	**Practical:** Metagenomic data analysis with Metagenome Atlas Part 1
12.00-13.00	Lunch
13.00-14.00	**Guest talk: Dr. Jonas Grossmann**
14:00-16:00	**Pratical:** Metagenomic data analysis with Metagenome Atlas Part 2 (including coffee break)

End of day 4

Day 5 Friday 13th December 2024
Lectures and practical session @ FGCZ Y59-G30/G32/34

09:30-10:30	**Lecture and Practical:** Assembly free approach to shotgun metagenomics
10:30-11:30	**Lecture:** Introduction to metatranscriptomics
11:30-11:45	Coffee break
11:45– 12.45	**Practical:** Metatranscriptomic data analysis with Samsa2
12:45 -14:00	Lunch
14:00-15.00	Project discussion/Project analysis consultation (including Course feedback/ Questions/ Discussion)
15:00 – 16:00	**Guest talk: Prof. Dr. Ericka Tavares Pinheiro**

End of course