

Scientific Program - draft

Monday 3th

Scuola di Agraria, room C - Piazzale delle Cascine, 18

10.00-10.30	Daniele Daffonchio, Luciana Giovannetti and Carlo Viti	Welcome to Florence University and opening of the Summer school
10.30-13.00		Experimental Design test and statistical approach for NGS data processing
13.00-14.30	Lunch	
14.30-16.30	Alessio Mengoni	(Meta)phylo-genomic strategies and perspectives to shed light on the microbial dark matter
16.30-18.30	Matteo Ramazzotti	Microbial diversity profiling using NGS

Tuesday 4th

Scuola di Agraria, room C - Piazzale delle Cascine, 18

9.00-12.30	Francesco Pini	Software installation
12.30-14.30	Lunch	
14.30-18.00	Francesca De Filippis	Practical - Before you start: raw reads quality evaluation and filtering (FastQC, fastx toolkit, Prinseq, SolexaQA++, etc.)

Wednesday 5th

Scuola di Agraria, room C - Piazzale delle Cascine, 18

9.00-12.30	Francesca De Filippis/ Francesco Pini	Practical - Analysis of taxonomic marker genes (16S, 18S, etc): description of ecosystem structure
12.30-14.30	Lunch	
14.30-18.00	Francesca De Filippis/Francesco Pini	Practical - 16S rRNA gene amplicon data analysis (QIIME)



*Summer School on Computational Analysis
From Genomic Diversity to Ecosystem
Structure*

Firenze, Sept 3-7, 2018



Thursday 6th

Scuola di Agraria, room C - Piazzale delle Cascine, 18

9.00-10.00

10.00-13.30 Francesca De Filippis Practical - 16S rRNA gene amplicon data analysis (QIIME)

12.30-14.30 Lunch

14.30-18.00 Social event

Friday 7th

Scuola di Agraria, room C - Piazzale delle Cascine, 18

9.00-11.00 Francesca De Filippis Practical - 16S rRNA gene amplicon data analysis (QIIME)

10.30-13.30 Marco Fusi The statistical analysis of next-generation sequencing data.

13.30 Carlo Viti Closing of Summer school

Speakers and Trainers

Daniele Daffonchio, King Abdullah University of Science and Technology - Saudi Arabia

Francesca De Filippis, University of Naples - Italy

Marco Fusi, King Abdullah University of Science and Technology - Saudi Arabia

Luciana Giovannetti, University of Florence - Italy

Alessio Mengoni, University of Florence - Italy

Francesco Pini, University of Florence - Italy

Matteo Ramazzotti, University of Florence - Italy

Carlo Viti, University of Florence - Italy