Scientific Program

Monday 5th
Scuola di Agraria, room XXXX

10.00-10.30	Daniele Daffonchio and Luciana Giovannetti	Welcome to Florence University
10.30-11.00	Carlo Viti	Opening of the Summer school
11.00-12.30	Marco Fusi	Experimental Design planning.
12.30-14.30	Pausa pranzo	
14.30-16.30	Marco Fusi	Experimental Design test and statistical approach for NGS data processing
16.30-18.30	Alessio Mengoni	(Meta)phylo-genomic strategies and perspectives to shed light on the microbial dark matter

Tuesday 6th
Scuola di Agraria, room XXXX

9.00-12.30	Matteo Ramazotti	Microbial diversity profiling using NGS
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 7th
Scuola di Agraria, room XXXX

9.00-11.00	Francesca De Filippis	Practical - Analysis of taxonomic marker genes (16S, 18S, etc): description of ecosystem structure
11.00-12.30	Luca Cocolin e Danilo Ercolini	Culture-independent fingerprinting: from fingerprint-based approaches to those sequence-based
12.30-14.30	Lunch	

| 14.30-16.00 | Luca Cocolin e Danilo Ercolini | FoodMicrobionet tool, and examples of application of NGS in food microbiology |
| 16.00-18.00 | Francesca De Filippis | Practical - 16S rRNA gene amplicon data analysis (QIIME) |

Thursday 8th
Scuola di Agraria, room XXXX

9.00-10.00	Diego Mora	Virome-associated antibiotic-resistance genes in aquatic environments
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 9th
Scuola di Agraria, room XXXX

9.00-10.30	Fabiana Paula	From small systems to ecosystems: how environmental gradients affect microbial community composition and function
10.30-12.30	Francesca De Filippis	Practical - 16S rRNA gene amplicon data analysis (QIIME)
12.30-13.00	Carlo Viti	Closing of Summer school

Luca Coccolin University of Turin - Italy

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 - Italy

Danilo Ercolini, University of Naples - Italy

Alessio Mengoni University of Florence - Italy

Diego Mora, University of Milan - Italy

Fabiana Paula, National University of Ireland, Galway - Ireland

Matteo Ramazzoti, University of Florence - Italy