



UNIVERSITÀ  
DEGLI STUDI  
FIRENZE  
**DAGRI**  
DIPARTIMENTO DI SCIENZE  
E TECNOLOGIE AGRARIE,  
ALIMENTARI, AMBIENTALI E FORESTALI



**SIMTR3A**



## Scientific Program

### Monday June 19th

Room C, Piazzale delle Cascine, 18 - Florence

9.30-9.45	Carlo Viti/ Arianna Buccioni	Welcome to Florence University and opening of the Summer school
9.45-11.00	Arianna Buccioni	Introduction on ruminant gastrointestinal metabolism and markers of microbiota activity
11:00-12:45	Paolo Trevisi	Introduction on monogastric gastrointestinal metabolism and markers of microbiota activity
12:45-14.30	Lunch	
14.30-16.00	Matteo Daglio	Microbial diversity profiling by targeted metagenomics
16.00-18.00	Andrea Franzetti	Microbial diversity profiling by shotgun metagenomics

### Tuesday 20th

Room D, Piazzale delle Cascine, 18 - Florence

9.00-12.30	Federica Mannelli	How to set up an <i>in vitro</i> trial
		Practical - Methods for fatty acid profile analysis
12.30-14.30	Lunch	
14.30-18.00	Federica Mannelli	Chomatograms interpretation. Data expression and statistics

### Wednesday 21st

Room C, Piazzale delle Cascine, 18 - Florence

9.00-11.00	Matteo Daglio/ Agnese Bellabarba	Software installation
11.00-12.30	Matteo Daglio/ Agnese Bellabarba	Practical - Analysis of taxonomic marker genes (16S): from raw reads to taxonomic classification with dada2. Part1



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**12.30-14.30** Lunch

**14.30-18.00** Matteo Daghigh/ Agnese Bellabarba Practical - Analysis of taxonomic marker genes (16S): from raw reads to taxonomic classification with dada2. Part2

## Thursday 22nd

**Room D, Piazzale delle Cascine, 18 - Florence**

**9.00-12.30** Eugenio Parente Conceptual strategies for the inference of microbial association networks

**12.30-14.30** Lunch

**14.30-20.00** Educational tour and sampling training at the CiRAA – Centro di Ricerche Agro-Ambientali "Enrico Avanzi" Pisa.

**14.30-15.30** Marcello Mele Procedures and methodology for gastrointestinal sampling

**15.30-18.00** Visit at the experimental farm of CiRAA

## Friday 23th

**Room C, Piazzale delle Cascine, 18 - Florence**

**9.00-12.00** Eugenio Parente Practical – inference and analysis of microbial association networks

**12.30-13.00** Carlo Viti/  
Arianna Buccioni Closing of Summer school

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### Speakers and Trainers

Agnese Bellabarba, University of Florence, Italy  
Arianna Buccioni, University of Florence, Italy  
Matteo Daghigh, University of Florence, Italy  
Andrea Franzetti, University of Milano-Bicocca, Italy  
Federica Mannelli, University of Florence, Italy  
Marcello Mele, Università degli Studi di Pisa  
Eugenio Parente, Università degli Studi della Basilicata  
Paolo Trevisi, Università di Bologna  
Carlo Viti, University of Florence, Italy