

# Training School

Metagenomics of Bacterial 16sRNA Genes Analysis using QIIME

05-08 November 2018

Nicosia Cyprus

The Agricultural Research Institute (ARI) and The Cyprus Institute (Cyl) organized a four-day interactive training school within the framework of *WG1: Ecology of HPMO in plants and in environments relevant for plant production* (<https://sites.google.com/site/costworkshopinmetagenomics/>).

Understanding the interaction between microbial communities in different environments is fundamental to answer questions that are related to ecosystem functioning, human health and agroecosystems productivity. High throughput sequencing technologies and the increasing generation of sequencing data accelerated the development of advanced bioinformatics approaches and methods through the Metagenome era.

This training school was attended mostly by postdoctoral fellows seeking to learn how to analyze metagenomics datasets. Totally, 27 graduate and post graduate students from 16 participating countries attended the training school. The workshop covered topics related to experimental designs, DNA extraction and NGS using MiSeq as a case-study and biostatistics. Finally, participants performed a hands on training during which a set of data was used to analyze NGS data using QIIME pipeline under GALAXY environment.

Participants were asked to evaluate the course at the end and responses were very positive for the overall performance of the training school. They realized that a more detailed training school for data statistical analysis is needed

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