



Omics of environmental and host-associated microbiomes

February 17-21, 08:30-18:30, University of Haifa

Every environment on Earth, from the deep oceans to the human skin and gut, is home to a complex and dynamic community of microbes. The workshop will provide students with the basic tools to set-up, analyze and interpret the results of 16S amplicon, metagenomic and other Omic analyses of microbiomes. The course will include in-depth lectures, seminars and hands-on tutorials. The following topics will be covered:

- How to design an environmental genomics or transcriptomics experiment
- Next generation sequencing platforms, library prep and QC of results
- Characterization and statistical analysis of microbial population structure studied using PCR amplicons
- Community functional characterization (metagenomics and meta-transcriptomics)
- Dealing with the complexities of host-associated microbiomes
- Integrating metadata and multi-omic data

The workshop is open to 32 advanced (MSc and PhD) students, postdocs and research scientists from all universities in Israel. Prerequisite courses include genetics, biochemistry, molecular biology, basic statistics and bioinformatics. Participants taking the course for academic credit are **required to register** through the secretariat of their university and to submit a final course project. **The course will be taught in English.** *Limited lodging is available at the University of Haifa dormitories at a cost of approximately 45 us\$/night.*

Registration is now open - please register online at <https://goo.gl/forms/3pgO3Pr1K0W2JUle2>.

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Registration closes December 15th, 2018.

