

# Next-Generation Sequencing Data Analysis BIOINFORMATICS ONLINE WORKSHOP 14-25 August, 2022

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## Workshop Objectives:

Tel-Hai College and MIGAL-Galilee Research Institute are offering a unique workshop in bioinformatics. Participants will gain practical experience in NGS analysis and theory, statistical and analytical approaches and hands-on practice using a variety of tools.

The workshop materials will be available online from August 7<sup>th</sup>, 2022.

The live sessions will begin on August 14<sup>th</sup>.

The workshop will include the following topics:

- Introduction to next-generation sequencing data analysis
- Linux command line
- Cleaning and trimming raw data
- introduction to alignment algorithms and tools
- Transcriptome and genome assembly
- Expression profiling and statistics
- Gene annotation
- Genome-wide association mapping, variant calling and processing
- Phylogenetic analysis and inference

## Eligibility:

- The workshop will be taught in English and is intended for graduate students, postdocs, research scientists and industry representatives.
- Students can obtain two credit points subject to the approval of their home institution.

For further information, please visit:

<http://english.telhai.ac.il/bioinformatics-workshop-2022/>

or contact us by email: [bioinfo@m.telhai.ac.il](mailto:bioinfo@m.telhai.ac.il)

