

The Hebrew University of Jerusalem

Syllabus

Research Methods in Computational Biology - 76556

Last update 10-08-2023

HU Credits: 2

Degree/Cycle: 1st degree (Bachelor)

Responsible Department: Computer Science & Computational Biology

Academic year: 0

Semester: 2nd Semester

Teaching Languages: Hebrew

Campus: E. Safra

Course/Module Coordinator: Prof. Tommy Kaplan

Coordinator Email: tommy@cs.huji.ac.il

Coordinator Office Hours: Upon request

Teaching Staff:

Prof Michal Linial,
Prof Tommy Kaplan,
Prof Dina Schneidman

Course/Module description:

2nd year seminar in Computational Biology

Course/Module aims:

Review of different topics in computational biology.

Learning outcomes - On successful completion of this module, students should be able to:

Manuscripts, Visualizations, Methods, Critical thinking, Abstract, Presentation

Attendance requirements(%):

100%

Teaching arrangement and method of instruction: Frontal

Course/Module Content:

Comparative Genomics
Enhancers
3D genomics
Single-cell RNA-seq
Systems Biology
The microbiome
Protein structure
Protein-protein interactions
RNA dynamics
Microbial genomics
Human diseases

Required Reading:

NA

Additional Reading Material:

Grading Scheme:

Presentation / Poster Presentation / Lecture/ Seminar / Pro-seminar / Research proposal 100 %

Additional information: