

The Hebrew University of Jerusalem

Syllabus

Molecular Genetics of Bacteria: A Practical Course - 94679

Last update 11-04-2024

HU Credits: 5

Degree/Cycle: 1st degree (Bachelor)

Responsible Department: Bio-Medical Sciences

Academic year: 0

Semester:

Teaching Languages: Hebrew

Campus: Ein Karem

Course/Module Coordinator: Shoshy Altuvia

Coordinator Email: shoshy@cc.huji.ac.il

Coordinator Office Hours: Every day upon coordination via mail

Teaching Staff:

Dr. Sahar Melamed,
Mr. Lior Aroeti,
Ms. Sivan Alkalay

Course/Module description:

The course is based on lectures and practical and independent lab work of the students. The student learn advance methodologies in prokaryotic genetic engineering.

Course/Module aims:

The course aims at providing the students with critical thinking, experimental design capabilities, data analysis and practical experience.

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

The students should be able to design and execute complex experiments. Analyze the results and build a model.

Attendance requirements(%):

100

Teaching arrangement and method of instruction: Lectures, discussions, and practical supervised lab work.

Course/Module Content:

Gene cloning
Generation and isolation of mutants
Genetic and biochemical analysis
Genomic manipulations

Required Reading:

Pre-lab reading material, lab course manual that will be provided to the students and a list of research papers that will be updated on an annual basis.

Additional Reading Material:

Grading Scheme:

Essay / Project / Final Assignment / Home Exam / Referat 60 %

*Submission assignments during the semester: Exercises / Essays / Audits / Reports
/ Forum / Simulation / others 20 %*

Personal Guide / Tutor / Team Evaluation 20 %

Additional information: