

The Hebrew University of Jerusalem

Syllabus

MOLECULAR GENETICS OF EUKARYOTES - 72683

Last update 02-09-2018

HU Credits: 2

Degree/Cycle: 1st degree (Bachelor)

Responsible Department: Life Sciences

Academic year: 0

Semester: 1st Semester

Teaching Languages: Hebrew

Campus: E. Safra

Course/Module Coordinator: Michael Brandeis and Michal Goldberg

Coordinator Email: goldbergm@mail.huji.ac.il

Coordinator Office Hours: Upon request

Teaching Staff:

Prof Michael Brandeis
Prof Michal Goldberg

Course/Module description:

Study of diverse topics in molecular genetics, Methods in molecular genetics, regulation of signal transduction by post-translational regulation, Connect to your polyploid cells, Sex, what is it good for? From genetics to epigenetics, Introns - how come we know so little about so much of the genome? The brave new world of RNA.

Course/Module aims:

Understanding advance molecular genetics subjects.

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

1. Analyze and evaluate different experiments in molecular genetics, 2. Critically analyze and evaluate scientific papers.

Attendance requirements(%):

100

Teaching arrangement and method of instruction: Starting with lectures by the teachers of the course. Then, the students present a seminar summarizing a paper in the field.

Course/Module Content:

Methods in molecular genetics, regulation of signal transduction by post-translational regulation, Senescence and aging. DNA replication + DNA translesion synthesis, Connect to your polyploid cells, Sex, what is it good for? From genetics to epigenetics, Introns - how come we know so little about so much of the genome? The brave new world of RNA.

Required Reading:

Will be provided at the beginning of the year, since these topics are constantly studied, and we wish to present the most updated papers.

Additional Reading Material:

None

Course/Module evaluation:

End of year written/oral examination 0 %

Presentation 50 %

Participation in Tutorials 0 %

Project work 50 %

Assignments 0 %

Reports 0 %

Research project 0 %

Quizzes 0 %

Other 0 %

Additional information:

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