

The Hebrew University of Jerusalem

Syllabus

Spider silk: From basic science to technology - 94902

Last update 10-09-2019

HU Credits: 2

Degree/Cycle: 2nd degree (Master)

Responsible Department: Biotechnology

Academic year: 0

Semester: 1st Semester

Teaching Languages: Hebrew

Campus: Ein Karem

Course/Module Coordinator: Dr. Shmulik ittah

Coordinator Email: shmulik.ittah@gmail.com

Coordinator Office Hours:

Teaching Staff:

Dr. Shmulik Ittah

Course/Module description:

During the course we will learn about the field of spider silk, starting with background and basic science and ending with a company that sell and develop different products that contains spider silk.

Course/Module aims:

Providing an overall perspective on the process of transforming basic science into a biotech company.

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

To understand the spider silk field, as well as to assess different stages in the process of transforming basic science into technology.

Attendance requirements(%):

Teaching arrangement and method of instruction: Lectures

Course/Module Content:

*In context with spider silk:
Background, DNA, genes, protein expression, baculovirus, self-assembly, structural biology, computational biology, protein purification, QA, QC, microscopy, IP, GLP, composite materials, product development.*

Required Reading:

No need

Additional Reading Material:

Course/Module evaluation:

End of year written/oral examination 100 %

Presentation 0 %

Participation in Tutorials 0 %

Project work 0 %
Assignments 0 %
Reports 0 %
Research project 0 %
Quizzes 0 %
Other 0 %

Additional information: