

## The Hebrew University of Jerusalem

Syllabus

## *Oligonucleotides: Chemical synthesis and medical applications - 64847*

*Last update 30-01-2024* 

HU Credits: 2

Degree/Cycle: 2nd degree (Master)

Responsible Department: School of Pharmacy

<u>Academic year:</u> 0

<u>Semester:</u> 1st Semester

Teaching Languages: English

<u>Campus:</u> Ein Karem

Course/Module Coordinator: Prof. Eylon Yavin

Coordinator Email: eylony@ekmd.huji.ac.il

Coordinator Office Hours: upon request

<u>Teaching Staff:</u> Prof Eylon Yavin

<u>Course/Module description:</u> Chemistry of oligonucleotides and their drug development

<u>Course/Module aims:</u> Knowledge in the chemistry and drug development of oligonucleotides

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

Knowledge in the chemistry and drug development of oligonucleotides

Attendance requirements(%):

Teaching arrangement and method of instruction: presentations

## <u>Course/Module Content:</u> Chemical Synthesis and purification of DNA/RNA Antisense Oligonucleotides – chemistry and therapeutics PNA - chemistry and therapeutics siRNA - chemistry and therapeutics miRNA- chemistry and therapeutics

<u>Required Reading:</u> Related articles in field

<u>Additional Reading Material:</u> None

<u>Grading Scheme:</u> Essay / Project / Final Assignment / Home Exam / Referat 100 % Additional information: