



## *The Hebrew University of Jerusalem*

### *Syllabus*

## *Molec. & Cell Biol. of Growth Factors & Cytokines - 81891*

*Last update 23-12-2021*

*HU Credits:* 2

*Degree/Cycle:* 2nd degree (Master)

*Responsible Department:* Bio-Medical Sciences

*Academic year:* 0

*Semester:* 2nd Semester

*Teaching Languages:* English

*Campus:* Ein Karem

*Course/Module Coordinator:* Prof. Amnon Peled

*Coordinator Email:* [peled@hadassah.org.il](mailto:peled@hadassah.org.il)

*Coordinator Office Hours:*

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Teaching Staff:

Prof Beni Reubi,  
Prof Amnon Peled,  
Prof Jacob Rachmilewitz,  
Dr. Jonathan Axelrod

Course/Module description:

The course covers the role of chemokines and cytokines in proliferation, differentiation, and trafficking of normal and malignant hematopoietic stem and mature cells with the focus on the role of these chemokines and cytokines in shaping the microenvironment.

Course/Module aims:

The aim of the course is to expose the student to critical cellular and molecular mechanisms that determine the structure and function of the hematopoietic system during normal and pathological conditions with focus on the development scientific thinking and tools.

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

At the end of the course  
the students will have improved the capacity to review scientific papers

Attendance requirements(%):

80

Teaching arrangement and method of instruction:

Course/Module Content:

Stem cells, hematopoietic cells, cancer cells, cytokines, chemokines, growth factors

Required Reading:

non

Additional Reading Material:

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Course/Module evaluation:

End of year written/oral examination 0 %

Presentation 0 %

Participation in Tutorials 0 %

Project work 100 %

Assignments 0 %

Reports 0 %

Research project 0 %

Quizzes 0 %

Other 0 %

Additional information: