



## Syllabus

### *bioorganometallic chemistry: from biological sys - 64807*

*Last update 21-07-2013*

HU Credits: 2

Responsible Department:

Academic year: 0

Semester: 1st Semester

Teaching Languages: Hebrew

Campus: Ein Karem

Course/Module Coordinator:

Coordinator Email: [dmitryt@ekmd.huji.ac.il](mailto:dmitryt@ekmd.huji.ac.il)

Coordinator Office Hours:

Teaching Staff:

Dr. Dmitry Tselikhovsky

Course/Module description:

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*The course is used to highlight the diversity and strength of organometallics in biological and medicinal spheres.*

*The content of the course will demonstrate the biological and medicinal utilization of organometallic species including main-group-metal and early-transition-metal complexes, as well as the better-known later-transition-metal complexes, focusing on their structural types and a wide range of applications.*

*The course is not merely welcome source of information, but one that stimulates the field of biological-organometallic chemistry field further, motivating students to use their skills and knowhow to solve problems in chemistry, biology and medicine.*

*Course/Module aims:*

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

*Attendance requirements(%):*

*Teaching arrangement and method of instruction: ppt*

*Course/Module Content:*

*Some of the topics to be discussed:*

- Metal-ligand bonding*
- Organometallic targets to specific biological sites (development of novel therapies)*
- Labeling of proteins with organometallic complexes*
- Organometallic bio-probes*
- Genosensors based on metal complexes*

*Required Reading:*

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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: