Course title: Microbial Evolution

Name of the lecturer: Dr. Sarit Avrani
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Office hours: Monday 10:30-11:30

Course credit: 2 hours/week

Requirements: Participation in lectures, seminar presentation, take-home exam.
Prerequisite course: Genetics.

Attendance: 80%

Course program: In this course different aspects of microbial evolution will be presented. Including: Mutation rate, adaptation, resistance, antagonistic pleiotropy, compensatory mutations, vertical and lateral gene transfer, mobile genetic elements, experimental evolution, host-parasite coevolution, endosymbiosis, metabolic evolution, RNA world, populations dynamics, cheating.

Basis of final grades: Seminar presentation (50%), take-home exam (50%).

Bibliography: Articles details will be given at the beginning of the semester.