Research Methodologies in Bioinformatics

Lecturers: Dr. Daniel Sher, Dr. Mickey Kosloff, Dr. Eyal Privman Course 227.4020, Fall semester Lecture: Tuesday 1215-1400, Room 128, Sala building Tutorial Tuesdays 1415-1600, room TBD

שיטות מחקר בביוא נפורמטיקה

Modern biological research relies heavily on the analysis of genes and proteins. Recent technological advances (such as next generation sequencing and tandem mass spectrometry) led to exponential growth of biological databases and allow us to analyze whole genomes, together with many thousands of gene expression patterns, protein structures, and protein-protein interactions. Such research requires sophisticated computational tools.

Students will learn basic concepts, approaches and tools used for bioinformatic analysis of sequence data (DNA and protein) and structural data (protein). We will discuss the design principles of prokaryotic and eukaryotic genomes, as well as the environmental and evolutionary forces shaping genomes. Technical topics covered will include: genomic architecture, gene identification, characterization, and annotation, sequence alignment, phylogeny reconstruction, selection pressure on DNA, RNA and proteins, protein 3D structure visualization and comparison, quantitative methods for protein structure analysis, structure prediction, genome/transcriptome sequencing and assembly methods, and gene/protein networks. The course will include lectures and hands-on computer tutorials. Prerequisite courses include biochemistry, molecular biology and genetics.

Grade composition: 70% final exam and 30% written tutorials (the exam can be substituted with a final project if approved)

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