

COMP 564. ADVANCED COMPUTATIONAL BIOLOGY METHODS AND RESEARCH.

Credits: 0-3

Offered by: Computer Science (Faculty of Science)

This course is not offered this catalogue year.

Description

Fundamental concepts and techniques in computational structural biology, system biology. Techniques include dynamic programming algorithms for RNA structure analysis, molecular dynamics and machine learning techniques for protein structure prediction, and graphical models for gene regulatory and protein-protein interaction networks analysis. Practical sessions with state-of-the-art software.

- 3 hours
- Prerequisite: COMP 462.
- Corequisite(s): COMP 462 or COMP 561

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