



Midterm Take Home Exam CSE546, Dr. M. Sakalli, CSE, Marmara Univ.
Nov.16, 2009

Bioinformatics

Submit your handwritten answers tomorrow by midday at latest. Use sources wikipedia, *.edu.*, and *.edu, *.ac.*, *.ca.

Questions:

1. What is an Operon? Explain activation, regulation and repression processes with examples.
2. Explain: Tandem repeats, micro/mini satellites, and other repetitive motives of dna or protein sequences.
3. TATA box: Write properties of tata boxes, and find similar ones or suggest if you think of any.
4. Elaborate on required steps of protein synthesis.
5. You will be assigned one more project later on detecting orf's or such, in java, or matlab that will take at least a day or more for you to complete. Therefore learn how to while answering questions above.