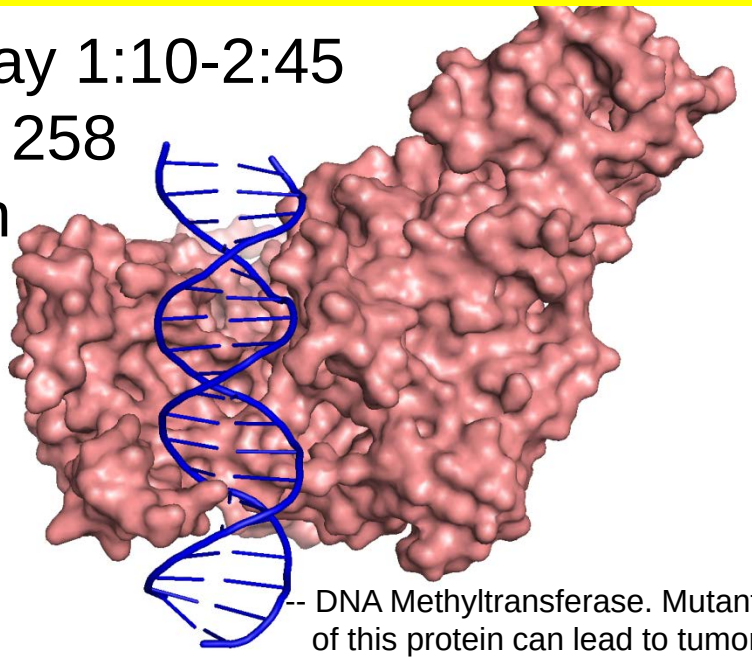
The double helix is only part of the story

CSE 397/497 Structural Bioinformatics

Tuesday & Thursday 1:10-2:45
Packard Lab room 258
Prof. Brian Y. Chen

This class is a comprehensive exploration of the intersection between structural biology and computation through novel and collaborative research experiences.



-- DNA Methyltransferase. Mutants of this protein can lead to tumors and developmental abnormalities.

Topics Include:

- Molecular Surfaces and Volumes
- Protein Structure Alignment
- Protein Electrostatics
- Protein-Protein Interactions
- Protein-DNA Interactions
- Molecular Simulation and Docking
- Computational Drug Design
- Protein Structure Prediction

No programming experience is required to fully complete and participate in this course.

"As someone with a stronger biology background but weaker computer, I found the course interesting; appreciated how Prof Chen could switch between the languages easily."

– CSE 397 student, Fall 2011.

"Professor Chen was very enthusiastic about the subject material and knew the material well"

– CSE 397 student, Fall 2011.