Title: Computer Simulations of Protein Machine (Dongqing Wei's Lab)

Project description:

The most complex molecular machines are proteins found within cells. These include motor proteins, such as myosin, which is responsible for muscle contraction, kinesin, which moves cargo inside cells away from the nucleus along microtubules, and dynein, which produces the axonemal beating of motile cilia and flagella. These proteins and their nanoscale dynamics are far more complex than any molecular machines that have yet been artificially constructed. Molecular Dynamics Simulations will be used to illustrate the dynamics and functions of these machines.

Requirements: open to students who are interested in Protein Structural Bioinformatics.

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