

Physical Chemistry Seminar



Professor Joan-Emma Shea

Dept. of Chemistry & Biochemistry
University of California, Santa Barbara

Effect of Surfaces on Protein Folding and Assembly

The folding of a protein to its native state is critical for the correct functioning of the cell. When proteins do not fold correctly, they can self-assemble into large aggregate structures that can deposit on organs in the body. A number of diseases, including Type II Diabetes and Alzheimer's Disease, are associated with this pathological process. Under cellular conditions, proteins encounter a variety of surfaces, from chaperones to membranes, that can dramatically alter folding pathways. In this talk, I will present atomistic and coarse-grained simulations that probe the effect of surfaces on protein folding and aggregation mechanisms.

Monday, June 3, 2013

4:00 P.M.

2033 Young Hall