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**Effect of surfaces in modulating protein folding mechanisms**

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Protein-surface interactions are ubiquitous in the crowded cytosol, where proteins encounter a variety of surfaces, ranging from membranes surfaces, to the surfaces presented by chaperone molecules. Protein-surface interactions are also at the heart of a number of emerging technologies, including protein micro-arrays, biosensors and biomaterials. The effect of surfaces on protein structure and stability can vary substantially depending on the chemical composition of the surface. In this talk, I will present detailed atomistic simulations of the folding of a small beta-sheet protein in the presence of graphite and titanium oxide surfaces. The role of water-mediated and direct protein-surface interactions in governing protein conformations will be discussed.