



The Fascinating World of Proteins: Molecular Machines of Biology

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Protein molecules perform an astonishing range of functions in all forms of life: from the digestion of food and the replication of our genes to the propagation of signals in cells and the nervous system.

This presentation will illustrate examples of these versatile molecular machines, how they are generated, and how they exert their functions. A particularly remarkable aspect of proteins is their molecular 3D structure is encoded within their amino acid sequence. This process of protein folding is understood at an increasingly detailed level thanks to advanced experimental methods and physical concepts. Protein folding also has wide-ranging implications for health and disease: If the folding process fails, misfolding diseases such as Alzheimer's or Parkinson's can emerge. Joining the forces of physics, chemistry, and biology will thus continue to be essential for understanding protein molecules and for treating or preventing such debilitating diseases.

Monday, Oct. 17, 2016

7 P.M. IN IIC-2001 (BRUNEAU CENTRE)

A RECEPTION WILL FOLLOW

PARKING AVAILABLE IN LOT 1A