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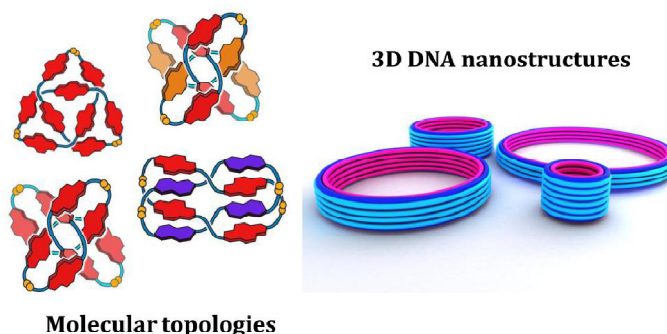
## Seminar

# Self-assembly of topologically complex architectures and DNA based materials

**Nandhini Ponnuswamy**

**Dana Farber Cancer Institute, Harvard University**

In the first part, I would like to illustrate the importance of the hydrophobic effect in the formation of topologically complex molecules such as molecular knots and links. In the second part of my talk, I will extend the principles of supramolecular chemistry to the self-assembly and in vivo stability of multilayered 2D and 3D DNA nanostructures. Finally, I would like to update you on the development of a novel oligolysine based method that provides intracellular stability to DNA nanostructures for biomedical applications such as the design of a DNA based cancer adjuvant.



***Monday, August 18th 2014***

***2:00 PM (Tea/Coffee at 1:45 PM)***

***Seminar Hall, TCIS***