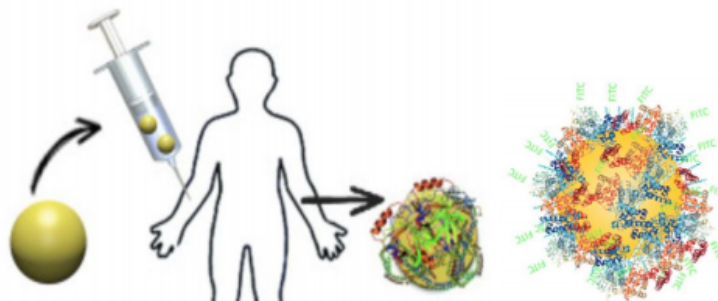


Exploring Protein Corona Formation from Nanoparticles



by

Maria Beltran

Friday, March 6, 2020
12 - 12:50 P.M. | AGM-102

Abstract

Nanoparticles hold great promises in the biomedical field because they possess distinct properties from their bulk material. However, understanding their behavior and interaction with living organisms has been challenging. Withing the last decade, it is becoming clear that when nanoparticles interact with biological fluids, they form a complex called the protein corona. The protein corona consists of an array of proteins which absorb to the nanoparticles surface. The corona confers a new surface and significantly alters the cellular response to the material and the biodistribution to the material in vivo. Therefore, better understanding of the selectivity and abundance of proteins that absorb to the surface of the nanoparticle is critical to promote advancement to nanomedicine. In this presentation, I will discuss recent studies undergoing to better understand the relationship between nanoparticles and biological systems.