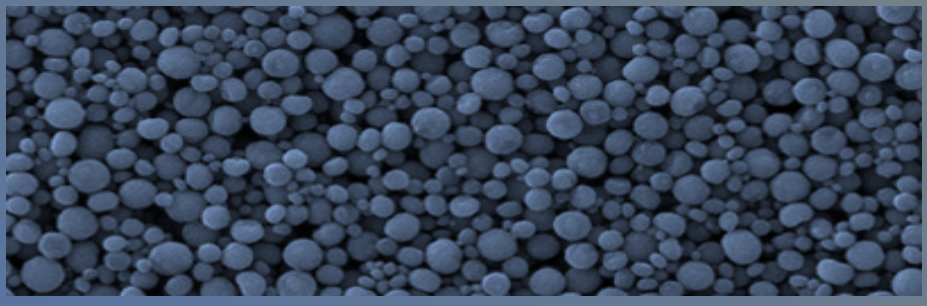
Combinatorial Nanonconstructs for Imaging and treating cancer and inflammatory diseases

Giovedì, 8 febbraio 2017

Ore 14:30 – 16:00

Parco Tecnico Scientifico di Pavia – Aula D
Via Taramelli, 24 – 27100 Pavia



Speaker: Prof. Paolo Decuzzi

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https://www.iit.it/research/lines/nanotechnology-for-precision-medicine

Abstract

Multifunctional nanoconstructs are particle-based nano-scale systems designed for the 'smart' delivery of therapeutic and imaging agents. The Laboratory of Nanotechnology for Precision Medicine at IIT-GE synthesizes polymeric nanoconstructs with different *sizes*, ranging from a few tens of nanometers to a few microns; *shapes*, including spherical, cubical and discoidal; *surface* properties, with positive, negative, neutral coatings; and mechanical *stiffness*, varying from that of cells to rigid, inorganic materials, such as iron oxide. These are the *4S parameters* – size, shape, surface, stiffness – which can be precisely tuned in the synthesis process enabling disease- and patient-specific designs of multifunctional nanoconstructs. In this lecture, the role of manipulating these 4S parameter

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