Giovedì 29 giugno 2017
alle ore 18.00
nell’Aula Magna
del Collegio Morgagni
via San Massimo 33, Padova

Stephan Barcikowski
University of Duisburg-Essen
terrà un seminario dal titolo:

Nanomedicine

"Nano" is actually an old hat. Nature has always been working on this scale. Nature’s gears are couple of nanometers in diameter. For example, biological cells are ideally programmed to digest ultrasmall, nanoscopic particles. Our cells also perfectly "feel" the curvature of nanoparticles by specific "touch molecules". Hence, scientists in the discipline if nanomedicine try to understand and mimic natural functions on a very small scale. If the size and coating of a nanoparticle are precisely tuned to these biological functions (which no one has mastered to this day), it is possible to diagnose diseases, to introduce drugs with fewer side effects, or to improve the compatibility of implants in vivo. Such "nanobiomaterials" therefore have enormous potential for the development of new therapeutic procedures and medical products. In this lecture, different modes of action are presented with examples from the fields of cancer therapy, and neural implants for treatment of Parkinson’s disease.

Dopo la discussione seguirà un incontro del relatore con gli studenti della Scuola Galileiana di Studi Superiori.

L’incontro è aperto al pubblico, fino ad esaurimento dei posti a sedere.

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