SOCIÉTÉ CHIMIQUE DE GENÈVE

Nanoparticles and cells: What have we learnt

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Engineered nanoparticles meet the biological world at the nano-bio interface. This encounter holds many promises *e.g.* for application in medicine (“nanomedicine”), raises concerns for the safe use of nanomaterials (“nanotoxicology”) and has led to novel science investigating the cellular interaction of nanoparticles.

The research activities of the BioNanomaterials group at the Adolphe Merkle Institute stretch over many fields from material synthesis and characterization to biological responses and risk assessment.

This presentation will give an overview of design strategies of tailor-made nanomaterials, their behaviour in complex biological environments, and the design of sophisticated and realistic cell models.

Two recent projects about smart drug delivery systems and the interaction of nanoparticles with biological cells will be highlighted and their identification and localisation within cells will be thoroughly discussed.

Conférence présentée le

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Université de Genève – Bâtiment Sciences II
Auditoire P.F. Tingry – A150 (ATTENTION : CHANGEMENT DE SALLE)
30, quai Ernest-Ansermet, Genève

La conférence est publique

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