

A platform to share the excitement about new nanomaterials,
nano-devices and methods

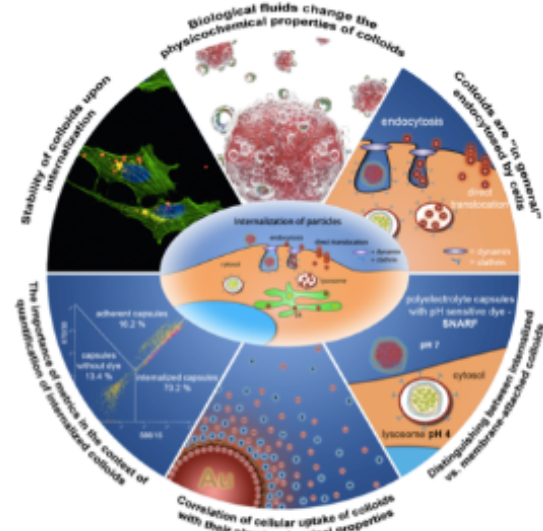
NANOSCIENCE COLLOQUIUM

Nanomaterials For Cell Tracking Applications: Some basic considerations

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Abstract: In the past decade, the nanomedicine field have experienced dramatic progress, which will help us find better solutions to fight manifold diseases. Nanomaterials offer promising opportunities, their novel properties make them excellent imaging and diagnostic agents. However, nanoparticles could be potentially harmful for humans and environment. To understand the possible effects of nanoparticles exposed to biological systems, a detail association of such effects to the physicochemical properties of the nanoparticles is needed. Therefore, we will provide an overview of different approaches to evaluate nanoparticles cell interactions, and discuss the potential use of an advanced system based on nanoparticle-based imaging labels to monitor cells non-invasively in vitro/ vivo. A deeper understanding in these areas will help to improve the development of nanomaterials for biomedical applications.



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