

HOW TO CHARACTERIZE NANOMATERIALS IN BIOLOGICAL SYSTEMS

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ABSTRACT

There is a considerable amount of activity in the development of nanomaterials for different industrial fields and especially in the case of nanomaterials for food and health-care applications these new NM will need to be characterized in biological systems. Unfortunately, the proper characterization of NM in biological systems is inherently difficult due to the complexity of the systems to be analyzed. In this presentation I will introduce the basic concepts of characterization of NM and I will present some examples of our multi-techniques approach for the characterization of NM in biological systems.

Finally, I will briefly present the assay cascade approach developed by the recently launched European Union Nanomedicine Characterization Laboratory (EU-NCL) for the characterization of nanomedicines that could be adapted to the more general characterization of NM in biological systems.