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Nanoparticle-Protein Corona: Biophysics to Biology

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1.1 Introduction

Over a recent decade, there has been a rapid growth in the area of nanotechnology. It is possible to prepare nanomaterials with well-defined sizes, shapes, compositions and surface modifications with precise control. The use of such nanomaterials has been found to have offered significant advances in the development of nanomedicine, such as therapeutics and diagnostics. To realize the biomedical applications possible, these nanomaterials must be able to be administered to the human/animal body without any adverse effects. One of the major challenges in the complex composition of biological fluids including a variety of salts, proteins, and proteins. Interactions between the components of biological fluids

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