

Biomedical Properties of Nanoparticles

Training Opportunities

Academic Training

Hybrid Trainees with expertise in Nanotoxicology

Pilot Projects

Basic – Characterization of Nano materials

Standardization of bioassays

Development of new dose response relationships

HTS- using in vitro cell based assays (using eg, HTS Core)

Delivery mechanisms

Toxico kinetics-Bioimaging / Cell, fate and transport

Toxico dynamics

Applied – Characterization of commercial products

Targeted toxicity studies on organ or systems of interest

Exposure assessment-biomarkers

Risk assessment- biomarkers

Interdisciplinary Teams

Opportunities for partnerships

RFA's from funding agencies

Working groups in defined areas

Optimize team base research

Asset mapping and expertise

National database in fields of nanotechnology

Database of core facilities

Initiation of pilot projects

Standardization in instrumentation and analytical approaches

Instrument availability and consortia

Availability of core facilities

Lab consortia/SOP/Choice of expert labs/validation of HTS approaches