

One PhD position in: Bioingegneria e Robotica Curriculum: Bio-NanoTechnologies

Title: Micro and nanoplastic characterization and their impact on human health

Translational Pharmacology Facility, Istituto Italiano di Tecnologia (IIT)

Tutors: Stefania Sabella/Rosalia Bertorelli

Project description: the project will be focussed on the development of advanced in vitro technologies to study the interaction of micro-nano plastics and pollutants. Additionally, the most appropriate in vivo models will be selected to study the possible toxic effects of repeated exposure to several plastic formulations, with or without pollutants.

The main responsibilities of candidates will be:

- Biodegradation studies in human artificial body fluids and their toxicological impact
- Assessment of micro and nanoplastics on human *in vitro* models
- Further studies on the most relevant *in vivo* models
- Disseminate the outcomes of this research including peer-reviewed academic publications of international standing.

Essential Requisites:

- A Master Degree in Biochemical engineering, Biological Sciences or equivalent;
- Good handling of cell cultures
- Ability to properly report, organize and publish research data
- Good command of spoken and written English

Optional Requisites:

- Good communication skills
- High motivation to learn
- Spirit of innovation and creativity
- Ability to work in a challenging and international environment

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