



©Core facility Multimodal Imaging

## 2 x Master Thesis

Core Facility Multimodal Imaging

### Toxicity profiling of food grade silica and food contaminants

In collaboration with the Department of Food Chemistry and Toxicology

### Cell-membrane nanoparticles interaction: tuning toxicity with shape

In collaboration with the Department of Inorganic Chemistry Functional Materials

Nanomaterials have a great application potential and their use is continuously increasing in food and pharmaceutical industries. In parallel, several issues concerning their safety remain unsolved, especially when exposure occurs concomitantly to other substances like food constituents, contaminants or pharmaceuticals. Additionally, biophysical properties of nanomaterials including shape and surface decoration can play a role in dictating their toxicological potential.

At the Biophysical Toxicology unit, we have two openings for Master Projects on these cutting-edge toxicological research questions. We offer a lively international-interdisciplinary research environment and close mentoring in the lab.

#### Requirements:

- ✓ Bachelor in Chemistry, Molecular Biology or comparable
- ✓ Good communication skills in English
- ✓ Ability to work independently as well as in team
- ✓ Presentation of CV and/or letter of interest is of advantage

**Starting:** Summer 2022 (or upon agreement)

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