

60066 - Methodologies for the toxicity and ecotoxicity evaluation of the nanomaterials

Información del Plan Docente

Academic Year	2016/17
Academic center	100 - Facultad de Ciencias
Degree	544 - Master's in Environmental Nanotechnology
ECTS	6.0
Course	1
Period	Annual
Subject Type	Compulsory
Module	---

1. Basic info

1.1. Recommendations to take this course

1.2. Activities and key dates for the course

2. Initiation

2.1. Learning outcomes that define the subject

2.2. Introduction

3. Context and competences

3.1. Goals

3.2. Context and meaning of the subject in the degree

3.3. Competences

3.4. Importance of learning outcomes

4. Evaluation

5. Activities and resources

5.1. General methodological presentation

5.2. Learning activities

5.3. Program

Program

1. and 2. The dose response curve as a basic working tool standard and no standard methods

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3. Experimental design and working hypotheses
4. Exposure scenario: contact, ingestion, inhalation, and foods
5. Experimentation organisms
6. Data analysis and interpretation (introduction to free software R)
7. Methods and parameters for assessing the biological impact of nanomaterials: in vitro, in vivo, molecular, physiological, cellular, reproductive organism level and population
8. Use of organisms as biomarkers

5.4.Planning and scheduling

5.5.Bibliography and recommended resources