

14 December 2011

Job vacancy

Postdoctoral research associated position for the evaluation of the anti-cancer biological activity of functionalized nanoparticles in in vitro studies

Summary: Position to evaluate the biological activity of functionalized nanoparticles (including hyperthermia) in *in vitro* studies for different types of cancer.

Requirements/Qualifications:

- Cell biology PhD
- Experience in :
 - i) Identification of nanoparticle internalization mechanisms
 - ii) Identification of cell death mechanisms
 - iii) Identification of cell resistance mechanisms to functionalized nanoparticle activity.
 - iv) Nanoparticle manipulations in cell cultures.Experience in animal model studies (mice) will be highly appreciated.
- Good and high publication record
- Fluent English
- Communication skills and enthusiastic
- Abilities to work independently.

Description

This position intends to integrate into the Spanish nanomedicine community excellent researchers who are actually working abroad.

The researcher will integrate the Nanomagnetism Program at Imdea Nanoscience Institute. The researcher will be involved in:

- Selection and preparation of cancer cell cultures
- Study of nanoparticle internalization mechanisms and cellular uptake
- Evaluation of biological activity of functionalized nanoparticles including hyperthermia.
- Evaluation of cell resistance mechanisms to diverse therapeutic approach strategies.

The work will be performed into a multidisciplinary group including organic, inorganic and biochemists involved in the synthesis and functionalization of iron oxide nanoparticles, physicists involved in their magnetic and thermal characterization and cell biologists involved in the biological activity of the functionalized nanoparticles

IMDEA Nanoscience is a new creation research institution whose main goals are to become an international excellence in certain areas of Nanoscience and to train technical and scientific personnel in different areas of Nanotechnology. To achieve these goals, IMDEA is recruiting excellence researchers and setting-up advance experimental techniques to realise internationally competitive research.

Research Field: Biomedicine

Interested people send a CV and brief motivation letter (1 page) to

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