

Post Doctoral Position in Nanotechnologies applied to Oral Peptide Delivery

DO YOU KNOW HOW TO DEVELOP AN ORAL PEPTIDE FORMULATION?

The laboratory of Professor Alonso at the University of Santiago de Compostela (USC) in Spain in alliance with the company Advancell is offering an International Post Doctoral (PostDoc) fellowship.

The **laboratory of Prof. Alonso** is particularly involved in the translation of ideas from the university through novel pharmaceutical technology. The overall goal is the design and development of novel nanostructured materials intended to transport drugs and antigens across biological barriers and deliver them to the target tissue (see <http://webspersoais.usc.es/persoais/mariaj.alonso/index.html>)

The University of Santiago de Compostela is one of the most respected high education institutions in Spain. The USC "CAMPUS VIDA" with a focus on health sciences and technologies has been recently recognized as a Campus of International Excellence of Spain.

Advancell is a biotechnology company with its own technology and continuous innovation, and is developing pharmaceutical projects (at different stages) in the therapeutics areas of oncology, dermatology and SNC.

Project focus: Preparation and characterization of nanoparticles as carries for oral delivery of peptides. Several nanoparticles will be made of different biomaterials (e.g. polymers, proteins and lipids) and rigorously characterized with respect to the size, morphology, stability as well as their capacity to load and release the peptide drug. In addition, the peptide loaded-NPs will be tested in biological environments and *in vivo* models.

Duties and Responsibilities:

1. To design, plan and carry out the experiments necessary for the project.
2. To write up reports, research papers and present research findings at national and international meetings.
3. To work in a collaborative environment.
4. To support colleagues, and particularly less experienced researchers.
5. To keep up to date with current developments in subject field.
6. To be responsible for day-to-day purchase of materials, and other routine activities necessary to run the project.

Qualifications:

- PhD in an appropriate discipline (chemistry, pharmacy, biology, chemical/ biomedical engineering...).
- Experience in drug delivery and formulation of macromolecules is required.
- Experience in cell culture or animal experimentation is desirable.
- Good English writing and communication skills.
- Good publication record for career stage.
- Good organisational skills and the ability to deliver to specific deadlines.
- To be able to work independently and as part of a team.
- Ability to keep accurate and detail records of experiments.
- Flexible approach required within the working environment.

Project duration: Starting date in February 1, 2011 or later, the project has an initial duration of 6 months and may be prolonged for up to two years.

Contact details:

For further information and submitting applications please contact
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