

CURSO DE FORMAÇÃO AVANÇADA

# TRANSLATING NANOMEDICINES:

PRINCIPLES OF NANOMEDICINES R&D  
(MÓDULO 1)



## REGISTRATION UNTIL 30<sup>th</sup> NOVEMBER

### Preliminary timetable

#### December 16

Seminar 1: Research and development (R&D) of nanomedicines.

8h30, Registration.

9h00, Introduction of R&D of nanomedicines, Catarina Pinto Reis (FFUL).

10h00, Nanomedicines: from scientific problems to technological solutions, A. J. Almeida (FFUL).

10h40, Coffee-Break.

11h00, Adapting PK principles for nanomedicines, Paulo Paixão (FFUL).

11h40, Quality Assurance from research to commercialization, Ricardo Grilo (Hikma).

12h40, Break.

14h00, A Lab experience in nanotechnology: from the bench to the clinic, Carlos Gonzalez (USC) by zoom.

15h00, Translation of cancer nanomedicines, João Nuno Moreira (FFUC) by zoom.

Registration zoom link:

[https://videoconf-colibri.zoom.us/meeting/register/tJlrf-6rqDloHd0l-655p\\_uMdY4WxMrcwdgT](https://videoconf-colibri.zoom.us/meeting/register/tJlrf-6rqDloHd0l-655p_uMdY4WxMrcwdgT)

#### December 17

Seminar 2: Regulatory framework of the R&D process and pharmaceutical development of a nanomedicine.

10h00, *Navigating regulatory challenges in medicines*, Liliana Nascimento (Fresenius Kabi) by zoom.

11h00, *Evolution of new technologies in advanced therapies*, João Gonçalves (FFUL).

12h00, Coffee-Break.

12h30, *R&D and regulation in orphan medicines: particularities of nanomedicines*, João Rocha (FFUL).

13h30, Break.

14h30, *Drug development: an overview from concepts uses*, Beatriz Lima (FFUL).\*

15h30, *Nanomedicines and regulatory environment*, M. João Ribeiro (TripleBlue Pharma Consulting).

\*To be confirmed.

Registration zoom link:

[https://videoconf-colibri.zoom.us/meeting/register/tJlrf-6rqDloHd0l-655p\\_uMdY4WxMrcwdgT](https://videoconf-colibri.zoom.us/meeting/register/tJlrf-6rqDloHd0l-655p_uMdY4WxMrcwdgT)

#### December 18

Seminar 3: Characterization methodologies and techniques of pharmaceutical quality attributes of nanomedicines (I).

09h00, Light scattering techniques for nanoparticles characterization, José Catita (UFP) by zoom.

10h00, Spectroscopic tools for nanomedicines characterization, João Lopes (FFUL).

10h40, Coffee-Break.

11h00, Basic principles of differential scanning Calorimetry (DSC), thermogravimetric analysis (TGA), differential thermal analysis (DTA) and their importance in nanostructure analysis, João Pinto (FFUL).

11h40, Atomic force microscopy - a powerful tool in nanomedicine and other nanosciences, Ana Viana (FCUL).

12h40, Break.

15h00, Electron microscopies: from health and bioelectronics to environmental remediation, Daniela Gomes (FCT-UNL).

16h00, Principles and clinical and pre-clinical applications of medical imaging, Nuno Matela (FCUL).

## Nanomedicines:

### What else?

The course is unique in Portugal. It includes two modules.

Specifically, for this first module, a set of seminars with several lecturers from different fields (academia, pharma industry, regulatory agencies, European Patent Office, etc.) will be carried out during 4 days of training. The last day is for the evaluation.

It is intended that students will acquire a multidisciplinary knowledge in the field of Nanomedicine and autonomously systematize the existing information based on scientific and technical literature that will support as a working basis for the development of a research project.

The students will also develop skills for research work as well as for analysis and discussion of economic, socio-cultural and ethical implications of R&D of Nanomedicines. These skills also include knowledge integration, and ability to identify patentable results or research outcomes liable to commercial exploitation.

Registration zoom link:

[https://videoconf-colibri.zoom.us/join/6rQDioHd0l-655p\\_uMdY4WxMrcwdgT](https://videoconf-colibri.zoom.us/join/6rQDioHd0l-655p_uMdY4WxMrcwdgT)

#### December 19

Seminar 3: Characterization methodologies of non-clinical and clinical issues of nanomedicines (II).

9h00, Methods for monitoring cellular and molecular processes in eukaryotic cells, Joana Amaral (FFUL).

09h40, Methodologies to study the biodistribution of nanoformulations, Lurdes Gano (C2TN/DECN, IST).

10h20, Coffee-break.

11h00, Assessment of the therapeutic potential of new molecules: in vitro and in vivo, Manuela Gaspar (FFUL).

11h40, Life-cycle of a medicine, I. V. Figueiredo (FFUC) by zoom.

12h40 – Break.

Seminar 4: Intellectual property, technology transfer, patents, ethics and business perspective of the nanomedicine R&D process.

14h30, An outlook into the challenges and opportunities for IP in the nanomedicine field, Rui Gomes (Patents Commission of UNION-IP).

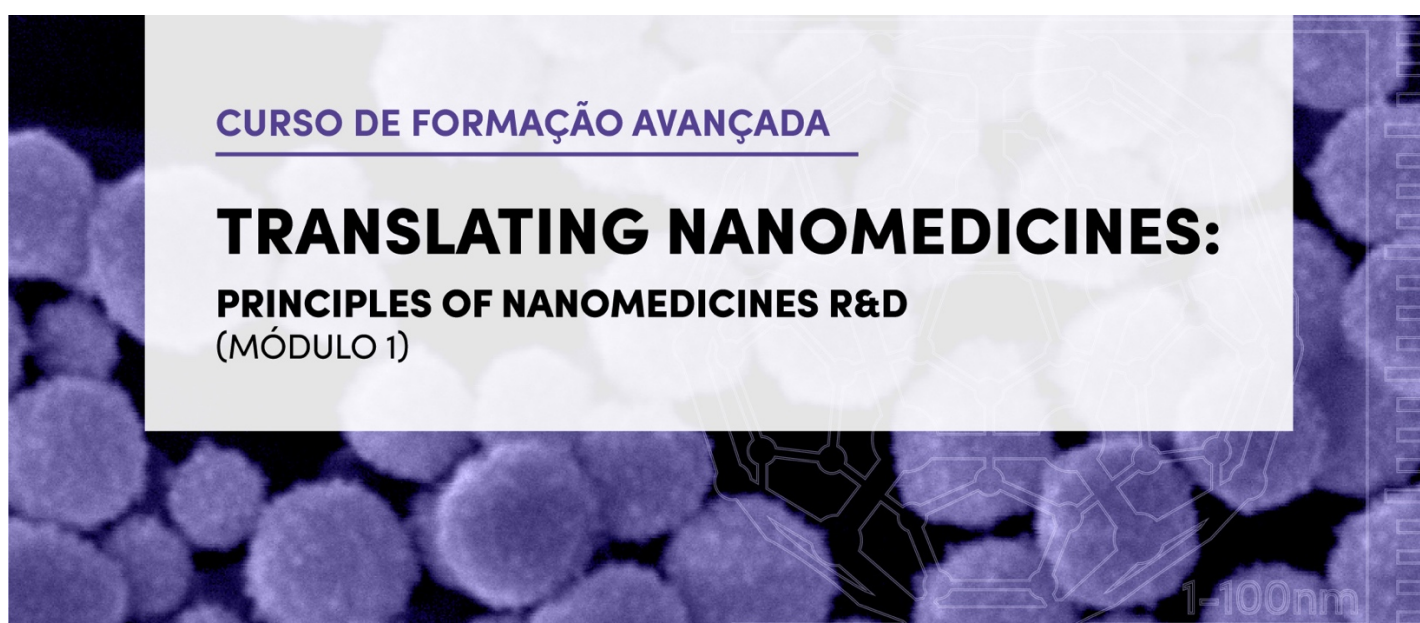
15h10, Ethical dilemmas in access to medicines and drug development, Carolino Monteiro (FFUL).

15h50, What lies ahead for a biomedicine startup, António Pais (Knowledgebiz).

#### December 20

10h30, Evaluation.

## Amphitheatre B, FACULTY OF PHARMACY, U. LISBOA



#### APPLICATION

Access to the [FenixEdu Platform](#):

- If you have never been a student at FFULisboa you must pre-register on the [FenixEdu Platform](#).
- If you are a former student of FFULisboa and have already had an account [campus@ulisboa](mailto:campus@ulisboa) or [@edu.ulisboa.pt](mailto:@edu.ulisboa.pt) you should access the FenixEdu Platform and authenticate yourself with your account data.
- If you have lost access to your account, you can recover your password in the [ULisboa users area](#).
- If you are a former student of FFULisboa and have never had an account [campus@ulisboa](mailto:campus@ulisboa) or [@edu.ulisboa.pt](mailto:@edu.ulisboa.pt) you must send an email to [doutoramentos@ff.ulisboa.pt](mailto:doutoramentos@ff.ulisboa.pt) indicating your full name and ID document number.

Access to the [FenixEdu Platform](#).

- On the "Applicant" tab, choose the type of application Advanced Training Course – Translocation of Nanomedicines: Principles of Nanomedicines R&D
- Fill out the online form and attach all documents in digital format.
- Select the option "Submit".