

CURSO DE FORMAÇÃO AVANÇADA

TRANSLATING NANOMEDICINES:

PRINCIPLES OF NANOMEDICINES R&D
(MÓDULO 1)



REGISTRATION UNTIL NOVEMBER 14TH

Preliminary timetable

December 11

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

8h30, Registration.

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

9h20, *Nanomedicines: from scientific problems to technological solutions*, A. J. Almeida (FFUL).

10h00, *Adapting PK principles for nanomedicines*, Paulo Paixão (FFUL).

10h40, Coffee-Break.

11h00, *A Lab experience in nanotechnology: from the bench to the clinic*, Lino Ferreira (FMUC).

12h00, *Translation of cancer nanomedicines*, João Nuno Moreira (FFUC).

17h00, *Quality Assurance from research to commercialization*, Dilar Mendes (Incyte) by zoom.

Registration link:

https://videoconf-colibri.zoom.us/meeting/register/tJMQduqprz8oGdyzcue9DfTv-Hi1m_aCBpM3

December 12

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

10h00, *Navigating regulatory challenges in bacteriophages and biologic medicines*, Helena Dordio (Technophage).

11h00, *Drug development: an overview from concepts uses*, Beatriz Lima (FFUL).

12h00, *Evolution of new technologies in advanced therapies*, João Gonçalves (FFUL).

13h00, Break.

14h00, *R&D and regulation in orphan medicines: particularities of nanomedicines*, João Rocha (FFUL).

15h00, *Nanomedicines and regulatory environment*, M. João Ribeiro (TripleBlue Pharma Consulting).

17h00, Rogério Gaspar (WHO) by zoom.

Registration link:

<https://videoconf-colibri.zoom.us/meeting/register/tJ0rdeqtrzuE9CRfB7d7oFd4oW-KiwmlsYf>

December 13

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

9h00, *Light scattering techniques for nanoparticles characterization*, José Catita (UFP).

9h40, *Basic principles of differential scanning Calorimetry (DSC), thermogravimetric analysis (TGA), differential thermal analysis (DTA) and their importance in nanostructure analysis*, João Pinto (FFUL).

10h20, *Atomic force microscopy - a powerful tool in nanomedicine and other nanosciences*, Ana Viana (FCUL).

11h00, Coffee-Break.

11h30, *Electron Microscopies: from health and bioelectronics to environmental remediation*, Daniela Gomes (FCT-UNL).

12h10, *Spectroscopic tools for nanomedicines characterization*, Noélia Duarte (FFUL).

12h50, Break.

14h00, *Manufacturing of nanomedicines. From lab to production scale*, João Lopes (FFUL).

14h40, *Navigating the Production and Testing of Commercial Injectable Suspensions*, Rodrigo Campos (Hikma).

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.

December 14

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).

9h40, *Principles and clinical and pre-clinical applications of medical imaging*, Nuno Matela (FCUL).

10h20, *Methodologies to study the biodistribution of nanoformulations*, Luísa Corvo (FFUL).

11h00, Coffee-break.

11h30, *Assessment of the therapeutic potential of new molecules: in vitro and in vivo*, Manuela Gaspar (FFUL).

12h30, *Life-cycle of a medicine*, I. V. Figueiredo (FFUC).

13h30 – 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).

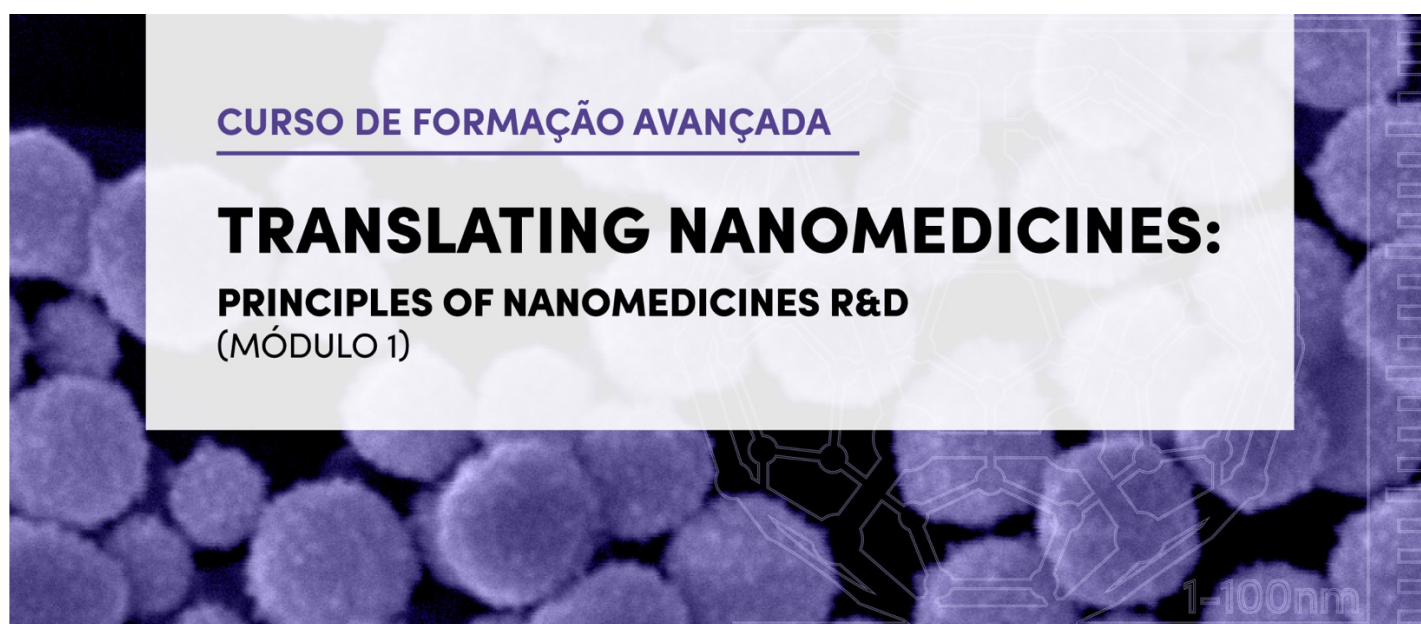
15h10, *Ethical dilemmas in access to medicines and drug development*, Carolino Monteiro (FFUL).

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

December 15

10h00, Evaluation.

ROOM A.3.4., FACULTY OF PHARMACY, UNIVERSITY OF 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.pt or @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.pt or @edu.ulisboa.pt you must send an email to 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”.