

# 1<sup>st</sup> Symposium on Advanced Technologies for Drug Delivery

@DD21 *Goes fully virtual*



Lisboa, 21-10-21 (9:30 am, PT) to 22-10-21(2 p.m., PT)

## Final programme @DD21

### Key Topics at @DD21

Nanomedicine in Drug Delivery, Nano-Oncology, Nano and Infection, Nano-Immunomedicine, mRNA Vaccines, COVID-19, Emerging Technologies, Imaging, Nanosystems, Nanopharmaceuticals, Nanotheranostics, Translation, Ethics, Personalized Health and Related Technology

#### FIRST DAY: 21-10

##### 09h30 – 09h45 – OPENING SESSION.

**João Gonçalves** (iMed.U LISBOA, PT)  
**António José Almeida** (iMed.U LISBOA, PT)

##### 09h45 – 10h45 – SESSION 1: NANOMEDICINE IN ONCOLOGY.

**Chair** **Manuela Gaspar** (iMed.U LISBOA, PT)

**Speakers** **Barbara Klajnert-Maculewicz** (U. Lodz, Poland)  
*Dendrimers as carriers of anticancer drugs*

**Gert Storm** (Utrecht University, NL)  
*Why nano in medicines?*

##### 10h45 – 11h00 – QUESTIONS AND DEBATE.

##### 11H00– 11H15 – POSTER SESSION (VIRTUAL SESSION).

##### 11h15 – 12h15 – SESSION 2: NEW TECHNOLOGIES IN INFECTIOUS DISEASES.

**Chair** **Manuela Colla** (iMed.U LISBOA, PT)

**Speakers** **Ana Grenha** (U. Algarve, PT)  
*Inhalable therapies – Reviving the treatment of respiratory infections*

**Sandra Aguiar** (CIISA, Faculdade de Medicina Veterinária, U LISBOA, PT)  
*Brain targeted immunoliposome: An innovative antimicrobial drug delivery system for bacterial meningitis*

##### 12h15 – 13h15 – SESSION 3: NANOMEDICINE IN VACCINES.

**Chairs** **António Almeida** (iMed.U LISBOA, PT) and **Eugénia Cruz** (iMed.U LISBOA, PT)

**Speakers** **Juan Irache** (U. Navarra, SP)  
*Nanoparticles as antigen delivery systems in oral vaccination*

**Helena Florindo** (iMed.U LISBOA, PT)  
*Nanotechnology in the development of a COVID-19 vaccine*

**João Rocha** (iMed.U LISBOA, PT)  
*Regulatory aspects of Covid-19 vaccines development and approval*

##### 13h15 - 13h30 – QUESTIONS AND DEBATE.



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## SECOND DAY: 22-10

### 14h00 – 15h00 – SESSION 4: NANOMEDICINE IN METABOLIC DISEASES.

**Chair**                **Catarina Pinto Reis** (iMed.U LISboa, PT)

**Speakers**        **Subbu Venkatraman** (NUT, Singapore)  
*Insulin oral delivery: a proof-of-concept*

**Noemi Csaba** (USC, ES)  
*Transmucosal delivery of nanotherapeutics - a biomimetic approach*

### 15h00 – 15h15 – QUESTIONS AND DEBATE.

### 15H15 –15H30 – POSTER SESSION (VIRTUAL SESSION).

### 15h30 – 16h30 – SESSION 5: NANOMEDICINE IN REGENERATIVE MEDICINE.

**Chairs**                **Ana Francisca Bettencourt** (iMed.U LISboa, PT) and **Lidia Gonçalves** (iMed.U LISboa, PT)

**Speakers**        **Lino Ferreira** (CNC, UC, PT)  
*Non-viral gene editing formulations*

**Guisseppina Sandri** (U. Pavia, IT)  
*Polysaccharides based scaffolds in tissue engineering*

### 16h30 – 16h45 – QUESTIONS AND DEBATE.

### 16h45 – 17h45 – SESSION 6: NANOPRODUCTS IN SKIN DELIVERY.

**Chairs**                **Andreia Ascenso** (iMed.U LISboa, PT) and **Sandra Simões** (iMed.U LISboa, PT)

**Speakers**        **Carla Vitorino** (UC, PT)  
*Solid Lipid Nanoparticles for Transdermal Drug Delivery: where are we?*

**Maria Vitoria Bentley** (U. Ribeirão Preto, Brasil)  
*Development of multifunctional nanocarriers for drug delivery in and through the skin for topical therapy of various skin diseases and for cosmetics*

### 17h45 – 18h00 – QUESTIONS, DEBATE AND COMMUNICATION OF THE BEST POSTERS (6, ONE PER SESSION).

### 18h00 – 18h30 – PITCH SESSION OF THE 6 SELECTED POSTERS (ORAL AND IN ENGLISH, 5 MIN EACH).

### 18h30 – 18h40 – SESSION GREGORY GREGORIADIS – A VISIONARY SCIENTIST.

**Speaker**            **Eugénia Cruz** (iMed.U LISboa, PT)  
*Highlights for the construction of nanoparticulate vaccines*

### 18h40 –18h55 – CLOSING SESSION.

**Beatriz Lima** (iMed.U LISboa, PT)  
**António José Almeida** (iMed.U LISboa, PT)