



# Cursos de Verano 2022

SANTANDER



## ENCUENTRO

### Advanced Therapies

From August 29 to September 1

#### DIRECTORS

##### Pedro M. Baptista

ARAID Researcher. Aragon Health Research Institute (IIS Aragón). Biomedical Research Center of Aragón (CIBA)

##### Pilar Martín Duque

Assistant Professor. Surgery department. University of Zaragoza Medical School. Biomedical Research Center of Aragón (CIBA)

#### ACADEMIC SECRETARY

##### Alberto Jiménez Schumacher

ARAID researcher. Head, Molecular Oncology Group. Aragon Health Research Institute (IIS Aragón). Biomedical Research Center of Aragón (CIBA)

##### Silvia María Hernández Ainsa

ARAID Researcher. Instituto de Nanociencia y Materiales de Aragón (INMA). CSIC-Universidad de Zaragoza

## Biología y Biomedicina

### ENCUENTRO

Patients with pathologies treatable by advanced therapies number in millions, attracting the interest of pharmaceutical companies and patient associations. These therapies include gene and cell therapies and tissue engineering or nanomedicine, which provide innovative alternatives for treating multiple diseases.

**GENE THERAPY** is based on the introduction of genetic material for the treatment or prevention of the pathology, either by replacing or silencing the mutated genes involved in the development of the disease in the organism or by introducing new genes to treat it. This can be done both using viral vectors and non-viral vectors, which is where **NANOMEDICINE** is beginning to re-emerge with great force because, depending on their composition, nanoparticles can also present modulable optical and/or magnetic properties with which, in addition to gene transfer, a therapeutic or visualization action can be achieved.

This course is aimed at students of biomedical sciences interested in this expanding area of knowledge. It will provide an overview of new tools for advanced therapies and biomedical imaging for their monitoring. In addition, we will analyze their applications and impact on research and clinical application through examples of how they are currently being implemented, including several current clinical trials.

Code 656q – Fee C – 1 ECTS

Patrocinio:



Colaboran:



Solicitud Online

Para cualquier incidencia técnica con la solicitud puede enviar un correo electrónico a: [cau@uimp.es](mailto:cau@uimp.es)



## Plazos

### Solicitud de becas

- Hasta el día 3 de mayo

### Apertura de matrícula

- Desde el 20 de abril de 2022 (plazas limitadas)

## Contacto

- De 9:00 a 14:00 h.
- De 16:00 a 18:00 h. (excepto viernes)

### Hasta el 17 de junio

#### SANTANDER

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Avda. de los Castros, 42  
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#### MADRID

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### A partir del 20 de junio

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# UIMP

Universidad Internacional  
Menéndez Pelayo

## Monday 29 August

GENE AND CELL THERAPIES: USE ON A BROAD SPECTRUM OF DISEASES

09:45 Opening

**Pilar Martín Duque**

**Alberto Jiménez Schumacher**

**Silvia María Hernández Ainsa**(Video conference)

10:00 Cell therapy in acute respiratory distress syndrome in patients infected by Sars-CoV-2 (COVID-19)

**Damián García del Olmo**

*Professor of Surgery (UAM)*

*Head of Surgery*

*University Hospital Fundación Jiménez Díaz, Madrid, Spain*

*Spanish Cell Therapy Network (TERCEL), ISCIII*

11:00 From preclinical to clinical trials in gene therapies

**Fátima Bosch Tubert**

*Professor in Biochemistry and Molecular Biology at Universidad*

*Autónoma de Barcelona and director of CBATEG*

12:00 CAR-T cells against solid tumors

**Pablo Menéndez Buján**

*ICREA Research Professor and Research Director of The Josep*

*Carreras Leukemia Research Institute-Campus Clínic-UB, in*

*Barcelona, Spain*

*Spanish Cell Therapy Network (TERCEL), ISCIII*

16:30 Round table

**Damián García del Olmo**

**Fátima Bosch Tubert**

**Pablo Menéndez Buján**

Moderation:

**Pilar Martín Duque**

**Alberto Jiménez Schumacher**

## Tuesday 30 August

NANOMEDICINE, NANOBIOENGINEERING AND IMAGING (I)

09:30 Micropeptides in pancreatic cancer: novel biomarkers and therapeutic targets

**María Abad** (Video conference)

*Investigadora Principal del Grupo de la Plasticidad Celular y*

*Cáncer del VHIO*

11:15 On the search for the perfect Trojan Horse for inflammatory pathologies

**Pilar Martín Duque**

15:30 Round table

**María Abad** (Video conference)

**Pilar Martín Duque**

Moderation: **Alberto Jiménez Schumacher**

## Wednesday 31 August

NANOMEDICINE, NANOBIOENGINEERING AND IMAGING (II)

09:30 Polypeptide-based Therapeutics as Nanosized Medicines

**María Jesús Vicent Docón**

*Head of the Polymer Therapeutics Lab*

*Centro de Investigación Príncipe Felipe (CIPF)*

11:15 A drug factory inside tumors. Nano-structured catalysts capable of working within the tumor microenvironment

**Jesús Santamaría Ramiro**

*Catedrático de Ingeniería Química*

*Universidad de Zaragoza*

15:30 Round table

**María Jesús Vicent Docón**

**Jesús Santamaría Ramiro**

Moderation:

**Pilar Martín Duque**

**Silvia María Hernández Ainsa** (Video conference)

## Thursday 01 September

ORGANOIDS, TISSUE AND ORGAN BIOENGINEERING AND REGENERATIVE MEDICINE

09:30 Organoids and Tissue Engineering for Advanced In Vitro Models and Clinical Applications

**Bart Spee**

*Associate Professor at Utrecht University, The Netherlands*

11:00 Whole-Organ Bioengineering: The Future of Transplantation Medicine

**Pedro M. Baptista**

12:30 Applications of Microfluidic technology and organ tissue equivalents to biologic problems

**Graça Almeida-Porada** (Video conference)

*Full Professor. Wake Forest Institute for Regenerative Medicine*

15:30 Round table

**Bart Spee**

**Graça Almeida-Porada** (Video conference)

Moderation:

**Pedro M. Baptista**

**Silvia María Hernández Ainsa** (Video conference)

17:30 Final conclusions. Closure



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