

## Aims

- 1) Provide students, clinicians, academics and researchers with updated knowledge on extracellular vesicles.
- 2) Analyze the role of extracellular vesicles in health and disease as well as their applications in biomedicine.
- 3) Encourage interactions among researchers and clinicians.

### Target audience:

- Graduate students (Master Thesis and PhD students).
- Lecturers and senior researchers.
- Clinicians and health workers (Medical doctors; surgeons; Physicians; Nurses; Technicians).

Cells secrete continuously membrane vesicles to the extracellular space. These extracellular vesicles (EVs) are called exosomes, microvesicles and apoptotic bodies based on their origin and size. EV protein composition is characteristic, and due to their typical surface proteins, they can be recognized by different acceptor cells, uptaken and release their content into the target cell. Thus, EVs have been proposed as mediators of cell-to-cell communication in multiple biological and pathological processes such as coagulation, angiogenesis and tumor progression. EVs are involved in the generation and modulation of the immune response, and have been also implicated in the transmission of pathogens.

The fact that EVs can be detected in many biological fluids, including blood, saliva, urine and milk, and their genetic content analyzed, makes them great candidates as non-invasive biomarkers for the diagnosis of different pathological processes such as chronic inflammation, cancer, cardiovascular diseases or infectious diseases.

In this course we intend to bring the study of extracellular vesicles to the audience, making them familiar with their purification procedures, composition and characterization. We also will discuss their clinical applications in diagnosis and monitoring of diseases, their usefulness as vehicles for specific and selective treatments, as well as for vaccination.

Acreditada por la Comisión  
de Formación Continua: 4,1 créditos



Reconocida como actividad de interés sanitario  
por la Conselleria de Sanitat

## Information and registration (places are limited)

**Palau de Pineda**  
Plaza del Carmen, 4  
46003 Valencia  
Tel. 963 108 020 / 019 / 018  
Administrative Secretary opening  
hours\*: 09,30 a 14,00 h

REGISTRATION: It is limited to a maximum of 100 participants. Registrations are on a first-come, first-served basis

Online registration available

**Fellowships for GEIVEX members:**  
<https://www.geivex.org/>

### Registration fees:

- 108 euros (88 euros academic fees + 20 euros secretary fees) for students enrolled in Spanish universities in the year 2018-19
- 130 euros for the rest of the students (110 euros academic fees + 20 euros secretary fees)

[www.uimp.es](http://www.uimp.es)  
[secretaria\\_valencia@uimp.es](mailto:secretaria_valencia@uimp.es)

Registered students will get an attendance diploma (only for students with a percentage of attendance 80% and above)

Code: 64DP



**UIMP** Universidad Internacional  
Menéndez Pelayo

19  
Seminar

## Extracellular Vesicles In Biomedicine

Director  
**Antonio Marcilla Díaz**

Secretary  
**María Yáñez-Mó**

Valencia  
June 26th to 28th, 2019



### Extracellular Vesicles In Biomedicine

**Director:**  
**Antonio Marcilla Díaz**  
*Universitat de València*

**Secretary:**  
**María Yáñez-Mó**  
*Universidad Autónoma de Madrid, Centro de Biología Molecular Severo Ochoa, Madrid*



June 26th to 28th, 2019

#### Wednesday 26th

- 09:30 h Registration
- 10:00 h Opening Ceremony
- 10:30 h Basic and translational aspects of Extracellular Vesicles  
**María Yáñez-Mó**
- 11:30 h How cells determine EV composition  
**Francisco Sánchez-Madrid**  
*Universidad Autónoma de Madrid, Centro Nacional de Investigaciones Cardiovasculares, Instituto de Investigación Sanitaria La Princesa, Madrid*
- 12:30 h EVs in intercellular communication and signaling  
**Isabel Guerrero**  
*Centro de Biología Molecular Severo Ochoa, Madrid*
- 15:00 h Omics in the study of Extracellular Vesicles  
**Juan Manuel Falcón**  
*Centro de Investigación Cooperativa en Biociencias CIC-BioGUNE, Parque Tecnológico de Vizcaya, Derio (Vizcaya)*
- 16:00 h New technologies for EV detection  
**Mar Valés-Gómez**  
*Centro Nacional de Biotecnología, Madrid*

#### Thursday 27th

- 10:00 h EVs biomarkers in cancer  
**Guido Jenster**  
*Josephine Nefkens Institute, Erasmus MC, Rotterdam, The Netherlands*
- 11:00 h EVs in tumor progression  
**Hector Peinado**  
*CNIO, Madrid*
- 12:00 h EVs and the immune system  
**Francesc E. Borrás**  
*IVECAT, Germans Trias i Pujol Research Institute (IGTP), Badalona*
- 15:30 h Round table:  
Use of EVs in biomedicine  
**Guido Jenster**  
**Antonio Marcilla**  
**Matilde Bustos**  
*Instituto de Biomedicina de Sevilla*  
**Giovanni Camussi**  
*Department of Medical Sciences, Università de Torino, Italy*
- 17:00 h Sponsors demo  
**José Enrique Ayala Rodríguez**  
*Product Manager en SOLMEGLAS S.L.*  
**Moisés Ruiz Bautista**  
*SOLMEGLAS, S.L.*  
**Sven Kreutel**  
*Sales department of Particle Metrix GmbH*

#### Friday 28th

- 10:00 h EVs in host-parasite interactions: Trypanosoma cruzi  
**Antonio Osuna**  
*Instituto de Biotecnología, Universidad de Granada*
- 11:00 h Stem cell-derived EVs in tissue repair  
**Giovanni Camussi**
- 13:00 h Closing ceremony

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