



**Organizers:** *Dra. Pilar Martín-Duque. Instituto de Salud Carlos III; Prof. Joana M. Ramis. Univ. Illes Balears; Prof. Antonio Marcilla. Universitat de València; Prof. Jesús Santamaría. Instituto de Nanociencia y Materiales de Aragón (INMA-UNIZAR)*

## 11<sup>th</sup> MARCH

### 9.30h Opening of the course by the authorities

Maria Luisa Ferrandiz (Vice Dean of the Faculty of Pharmacy and Food Science of the University of Valencia)

Marcel·la Franquesa (GEIVEX President)

### MORNING SESSION. NANOTECHNOLOGY (Chair: Prof. Jesús Santamaría)

9.45h *Nanoscience: explaining the behavior of nanomaterials. Overview of nanomaterials-based therapies.* Prof. Jesús Santamaría. Instituto de Nanociencia y Materiales de Aragón (INMA-UNIZAR)

10.30h *Nanoparticles for localized drug delivery.* Dr. Ramón Martínez-Mañez. Escuela Técnica Superior de Ingeniería Industrial. Universidad de Valencia. Valencia

11.15-11.30h *Questions.*

11.30-12.00h *Coffee break*

12.00h *From the laboratory to the pharmacy. Producing nanotherapies.* Prof. Eva Martín del Valle. Universidad de Salamanca

12.45h *Designing Smarter Nanocarriers: Lessons from Synthetic Nanoparticles and Extracellular Vesicles.* Dra. Ibane Abasolo. Instituto de Química Avanzada de Cataluña – CSIC

13.30-13.45h *Questions.*

13.45-15.30h *Free time for lunch break*

### AFTERNOON SESSION. LIVING BETWEEN TWO SMALL WORLDS: EVs AND NANOMATERIALS (Chair: Prof. Joana M. Ramis)

15.30h *"Platelet-derived extracellular vesicles for wound healing: exploring optimal sources, donor variability, and delivery using decellularized amniotic membrane hydrogels".* Prof. Joana M. Ramis. Univ. Illes Balears. Institut d'Investigació Sanitària Illes Balears (IdISBa)

16.00h *Use of EVs for regenerative medicine and cancer theragnostics.* Dra. Pilar Martín-Duque. Instituto de Salud Carlos III

16.30h *Advances in Local Drug Delivery Systems for Peritoneal Carcinomatosis in Ovarian Cancer.* Prof. Marta Monjó. Univ. Illes Balears. Institut d'Investigació Sanitària Illes Balears (IdISBa)

17.00h *EVs and liquid biopsies in cancer.* Dr. Antonio de la Vieja. Instituto de Salud Carlos III

17.30h *Questions and debate.*



**12<sup>th</sup> MARCH**

**MORNING SESSION. EVs FOR DIAGNOSTICS AND THERAPIES (Chair: Prof. Antonio Marcilla)**

**9.00h Basic concepts of the biology and biogenesis of the extracellular vesicles. Dra. María Yáñez Mó. Universidad Autónoma de Madrid**

**9.30h Immune modulation mediated by Extracellular Vesicles from cancer cells. Dra. María del Mar Valés Gómez. Centro Nacional de Biotecnología. Madrid**

**10.00h EVs in the communication between reigns and therapeutic approaches. Prof. Antonio Marcilla. Universitat de València.**

**10.30-10.45h Questions.**

**10.45-11.15h Coffee break**

**11.15h EV-inspired therapies to reactivate antitumor cell responses. Dr. Héctor Peinado. Centro Nacional de Biotecnología. Madrid**

**11.45h MSC-EV therapy as an alternative to current cell therapy. Dra. Marcel·la Franquesa, Instituto de Investigación Germans Trias i Pujol (IGTP), Badalona**

**12.15h Revealing Disease through exosome analysis by in-depth proteomics and immunomics. Dr. Rodrigo Barderas. Instituto de Salud Carlos III**

**12.45h Nano-Lights in the Brain: Revealing Disease with Molecular Imaging. Dra. Pilar López Larrubia. IIB. Alberto Sols. CSIC**

**13.15-13.30h Questions**

**13.30-15.00h Free time for lunch break**

**AFTERNOON SESSION: FACILITATING THE SUCCESS OF THE NANO-BIOMEDICAL PRODUCT TO THE CLINIC – Design of a clean room, preclinical studies, daily bases on a clean room (Chair: Dra. Pilar Martin-Duque)**

**15.00h Regulatory aspect for the production of ATMPs in research. Dra. Ana Bonora Centelles. IIS La Fe**

**15.30h Experience of the ATMPs production at La Fe's Hospital. Dr. Cristobal Aguilar. IIS La Fe.**

**16.00h. Round table.**

**16.30h. Closing remarks.**