



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)*

Preliminar programme:

11th MARCH

9.30h Opening of the course by the authorities

José Luis Poveda – Gerente de la Agrupación Sanitaria Interdepartamental ASI Valencia Sur, Hospital La Fe

Hortensia Rico – Decana de la Facultad De Farmacia Y Ciencias De La Alimentación De La Universitat De València

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

11.15h 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

13.30h 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

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

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

17.30h Questions and debate.

12th 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.

10.30h 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.