

Mini Symposium

NanoBIOSOME: Design, development and production of nanocontainers and nanovehicles

Centro Nacional de Biotecnología

10th July 2017



Comunidad de Madrid

www.madrid.org

9:30 – 11:00 h 1st session

Chairman: Jesús Pérez-Gil

9:30 h Lara H. Moleiro

Departamento de Química-Física I. Universidad Complutense.

“Vesicle nanovehicles for macrophage targeting in antidepressant therapy”

9:45 h Víctor Almendro Vedia

Departamento de Química-Física I. Universidad Complutense.

“ATP-synthase reconstitution in giant unilamellar vesicles”

10:00 h Sergio Ángel

Departamento de Química-Física I. Universidad Complutense.

“Mechanical phenotyping of cancer plasma cells”

10:15 h Raquel Arroyo

Departamento de Bioquímica y Biología Molecular I. Universidad Complutense.

“AFM dissection of the structure and assembly of pulmonary surfactant collectin SP-D”

10:30 h Yeray Dorca

Dpto. Química Orgánica I. Universidad Complutense.

“On the quest of homochirality. Chiral amplification in triphenylbenzene-based supramolecular polymers”

10:45 h Rosario Fernández-Fernández

Centro Nacional de Biotecnología (CNB-CSIC)

“Building controllable nanocages based on the CCT chaperonin”

11:00 – 11:30 h Café

11:30 – 13:30 h 2nd session

Chairman: Francisco Monroy

11:30 h Diego de la Fuente Herrerueta

Departamento de Química-Física I. Universidad Complutense.

“Peptide-lipid bioconjugation for cell targeting and drug delivery”

11:45 h Guillermo González Rubio

Departamento de Química-Física I. Universidad Complutense.

“Large-Scale Plasmonic Pyramidal Supercrystals via Templated Self-Assembly of Monodisperse Gold Nanospheres”

12:00 h Alberto Hidalgo

Departamento de Bioquímica y Biología Molecular I. Universidad Complutense
“Surfing the interface: a drug vehiculization strategy for the respiratory pathway”

12:15 h **Jorge S. Valera**

Dpto. Química Orgánica I. Universidad Complutense.

“Exploiting pathway complexity in the self-assembly of N-heterotriangulenes: Solvent-mediated kinetic control at different levels of organization”

12:30 h **Marta Martínez**

Departamento de Bioquímica y Biología Molecular I. Universidad Complutense

“Protein-protein assembly and membrane poration by pulmonary surfactant protein complexes”

12:45 h **Arancha Mato**

Centro de Investigaciones Biológicas (CIB-CSIC)

“Phasins at hydrophilic-hydrophobic interfaces: a promising tool for new biotechnological applications”

13:00 h **Carolina Allende**

Centro Nacional de Biotecnología (CNB-CSIC)

“3D Cryo-EM of bacterial encapsulin nanocontainers”

13:15 h **Mónica Muñoz Úbeda**

Departamento de Química-Física I. Universidad Complutense.

“Efficient transport and delivery of MFN1 by Gemini/DOPE nanovehicles in MFN1-Knockout fibroblasts”

13:30 – 14:30 h **Lunch**

14:30 – 16:45 h **3rd session**

Chairwoman: Auxi Prieto

14:30 h **Paolo Natale**

Departamento de Química-Física I. Universidad Complutense.

“LLO toxin for endosomal escape”

14:45 h **Álvaro Ortega**

Centro Nacional de Biotecnología (CNB-CSIC)

“Human picobirnavirus capsid as a protein-based biotechnological platform”

15:00 h **Carlos P. Mata**

Centro Nacional de Biotecnología (CNB-CSIC)

“Insertion of T-epitopes to modulate RHDV capsid stiffness”

15:15 h **Begoña Sot**

IMDEA Nanociencia

“Design of new tools for immunotherapy based on molecular chaperones”

15:30 h Natalia Tarazona

Centro de Investigaciones Biológicas (CIB-CSIC)

“Characterization of the interfacial proteins network on the PHA granule surface”

15:45 h Sabrina Thomae

Departamento de Química-Física I. Universidad Complutense.

“Protein-Assisted Assembly of Raspberry-like Core/Satellite Gold Nanorods”.

16:00 h Berta Tíno

Departamento de Química-Física I. Universidad Complutense.

“DNA-amplification in microfluidic double emulsion templated vesicles”

16:15 h Andrés Tolosa Díaz

Departamento de Química-Física I. Universidad Complutense.

“Membrane adhesion mediated by the mitochondrial protein MFN1”

16:30 h Mikheil Kharbedia

Departamento de Química-Física I. Universidad Complutense.

“Active gels based on the bacterial division protein FtsZ”