

1st nanoBIOSOMA SYMPOSIUM on “DESIGN, DEVELOPMENT & PRODUCTION OF NANOCARRIERS & NANOVEHICLES”

July 12-13th 2018
Centro Nacional de Biotecnología
Lecture Hall

July 12th

9:30

Welcome and Session 1
Chairman: José M. Valpuesta

09:30 – 10:20 h

Claus-Michael Lehr
Helmholtz-Institute for Pharmaceutical Research Saarland (HIPS);
Saarbrücken; Germany
“Towards novel lung-targeted nanomedicines”

10:20 - 10:45

Itziar Alkorta
Instituto Biofisika and University of the Basque Country (UPV/EHU); Leioa; Spain
“Solid Lipid Nanoparticles, smart drug carries that improve drug delivery into cells”

10:45 – 10:55

Carolina Allende-Ballester
Centro Nacional de Biotecnología (CNB-CSIC); Madrid; Spain
“IBDV virus-like particles for biotechnological applications”

10:55 – 11:30

Coffee Break

Session 2
Chairman: José R. Castón

11:30 – 11:55

Andrés de la Escosura
Universidad Autónoma de Madrid; Madrid; Spain
“Porphyrinoid (Bio)hybrid materials as an emerging toolbox for light management applications”

11:55 – 12:05

Álvaro Artiga
Instituto de Ciencia de Materiales de Aragón; Zaragoza; Spain
“Inkjet printed encapsulation of gold nanoparticles inside cell-adhesive chitosan hydrogels”

12:05 – 12:15

María E. F. Brollo
Instituto de Ciencia de Materiales de Madrid (CSIC); Madrid; Spain
“Drug delivery nanocarriers based on magnetoliposomes”

12:15 – 12:25

Miguel Cantero
Centro Nacional de Biotecnología (CNB-CSIC); Madrid; Spain
“Building nanocages based on the CCT chaperonin”

12:25 – 12:35

Guillermo González-Rubio

Universidad Complutense de Madrid; Madrid; Spain

"Gold nanoparticles induce nucleation of REPA-WH1 prionoid amyloid oligomers"

12:35 – 12:45

Alberto Hidalgo

Universidad Complutense de Madrid; Madrid; Spain

"Pulmonary surfactant and drug delivery: surfing the lungs to vehiculize drugs"

12:45 – 13:10

Juan J. Giner-Casares

Universidad de Córdoba; Córdoba; Spain

"Air/liquid interfaces for unravelling mechanism of self-assembly"

13:10 – 14:30

Lunch

Session 3

Chairman: Auxi Prieto

14:30 – 15:20

Luisa de Cola

AXA chair of Supra-molecular and Biomaterial Chemistry at ISIS;
University of Strasbourg; France

"Hybrid materials for biomedical applications"

15:20 – 15:45

Fernando Herranz

Centro Nacional de Investigaciones Cardiovasculares Carlos III (CNIC);
Madrid; Spain

"Tuning nanomicelles' protein corona for selective delivery in atherosclerosis"

15:45 – 15:55

Yurena Luengo

IMDEA Nanociencia; Madrid; Spain

"Antibacterial activity of Fe₂O₃/Ag nanocomposites synthesized by an aqueous route"

15:55 – 16:25

Coffee Break

Session 4

Chairman: Andrés Guerrero

16:25 – 17:15

Jeroen Cornelissen

MESA+ Institute for Nanotechnology; University of Twente; The Netherlands

"Using viruses as building blocks in functional materials"

17:15 – 17:40

Fernando Martínez-Pedrero

Universidad Complutense de Madrid; Madrid; Spain

“Magnetic Biohybrid Vesicles Transported by an Internal Propulsion Mechanism”

17:40 – 17:50

María Martínez Negro

Universidad Complutense de Madrid. Madrid. Spain.

“Biophysical study of Polycationic Cyclodextrin-DNA nanocomplexes: protein corona analysis and its effect on CDplexes Uptake by cancer cells”

17:50 – 18:00

Arancha Mato

Centro de Investigaciones Biológicas (CIB-CSIC); Madrid; Spain

“New strategies for expanding the functionalization of bacterial polyesters”

18:00 – 18:10

Paula Milán Rois

IMDEA Nanociencia; Madrid; Spain

“Gold nanoparticles against uveal melanoma”

July 13th

Session 5

Chairman: Luis Sánchez

09:30 – 10:20

Gustavo Fernández

University of Munster; Münster; Germany

“Self-assembled structures of BODIPY dyes and their potential biomedical applications”

10:20 – 10:45

Gorka Salas

IMDEA Nanociencia; Madrid; Spain

“Magnetic nanoparticles as nanobiodevices”

10:45 - 10:55

Mónica Muñoz Úbeda

Instituto de Investigación Biomédica Hospital 12 de Octubre (i+12);
Madrid; Spain

“Efficient expression of OPA1 mitochondrial membrane fusion protein in in vitro and in vivo experiments by using GEMINI/DOPE– based lipoplexes”

10:55 – 11:30

Coffee Break

Session 6

Chairman: Jesús Pérez Gil

11:30 – 11:40

Álvaro Ortega-Esteban

Centro Nacional de Biotecnología (CNB-CSIC); Madrid; Spain;

“Structure and biophysics of human picobirnavirus capsid”

11:40 – 11:50

Ismael Plaza García-Abadillo

Universidad Complutense de Madrid; Madrid; Spain

“Endosomal escape of plasmonic gold nanoparticles or Quantum dots mediated by Listeria monocytogenes Listeriolysin O toxin LLO”

11:50 – 12:00

Marina Santana-Vega

Newcastle University; Newcastle upon Tyne; UK

“Light-conversion systems based on mesoporous organosilica”

12:00 – 12:10

Laura Sanz-Ortega

Centro Nacional de Biotecnología (CNB-CSIC); Madrid; Spain

“Magnetic nanoparticles attached to T cells can target them to peripheral lymph nodes”

12:10 – 12:35

Jesús Sanz

Centro de Investigaciones Biológicas (CIB-CSIC); Madrid; Spain

“Dendrimeric nanoparticles: multivalency on our side”

12:35 – 13:00

Álvaro Somoza

IMDEA Nanociencia; Madrid; Spain

“Smart Nanoparticles for the Treatment of Cancer”

13:00 – 13:05

Concluding remarks

13:05 – 14:30

Lunch

