

MONDAY 12 NOVEMBER**9:00 REGISTRATION****9:30 OPENING** *Imperial Hall*

TBC, Instituto de Salud Carlos III

TBC, Universidad de Valladolid

Ramón Martínez Máñez, CIBER-BBN Scientific Director**10:00 PLENARY LECTURE I** *Imperial Hall*Chair: **Jordi Aguiló**, UAB*The Janssen Autism Knowledge Engine (JAKE™): A Set of Tools and Technologies to Assess Treatment Outcomes***Nikolay Manyakov**, Janssen Research and Development.**10:45 SCIENTIFIC SESSION I: RARE DISEASES** *Imperial Hall*

Chair: TBC

TBC, **Pablo Lapunzina**, CIBERER Scientific Director, Hosp. La Paz*Biotechnology applied to the diagnosis and treatment of rare diseases*, **Rafael Artuch**, Hosp. Sant Joan de Deu, Barcelona.*New challenges in the treatment of hereditary myopathies***Jordi Díaz Manera**, Hosp. Santa Creu I Sant Pau, Barcelona**11:45 COFFEE BREAK/POSTERS** *Azalea, Europa & Simancas Halls***12:30 SCIENTIFIC SESSION II: FRAILTY & HEALTHY AGEING***Imperial Hall*

Chair: TBC

*Technological solutions to improve healthcare attention for the elderly: Experimentation in real environments***Rodrigo Pérez Rodríguez**, Hosp. Getafe*Frailty, what are we talking about?* **Marta Checa López**

Hosp. Getafe

TBC

13:30 LUNCH / POSTERS *Azalea, Europa & Simancas Halls***15:00 DEBATE ON RARE DISEASES***Imperial Hall***DEBATE ON FRAILTY & HEALTHY AGEING***Iberia Hall***COFFEE BREAK / POSTERS***Azalea, Europa & Simancas Halls***16:30 NANBIOSIS INFRASTRUCTURE** *Imperial Hall*Chair: **Jaume Veciana**, ICMA B*Nanbiosis: Achievements and further goals***Jaume Veciana**, ICMA B*Bionand, the new node of NANBIOSIS*, **Marisa García**, BIONAND*ALBA: Synchrotron Light for Health and Biomedicine***Nuria Valls**, ICTS Sincrotrón ALBA**17:30 INTRAMURAL PROJECTS SESSIONS I & II****DIAGNOSIS & INFECTIOUS DISEASES***Imperial Hall*

Chair: TBC

NANOPROBE*Gated sensing materials and devices for the detection of infectious diseases and urological cancer***Elena Aznar**, IQMA-UPV**PcP-SENS***Development of a biosensor point-of-care diagnostic tool for the fast identification of infection by Pneumocystis***Anna Aviñó**, IQAC-CSIC**BIOFILM-ATTACK***New highly positively charged nanovesicular structures for the treatment of biofilm formation in lower extremity ulcers***Nora Ventosa**, ICMA B**QS-PROFILE***Immunochemical diagnostic strategies based on the quorum sensing system***M.Pilar Marco**, IQAC-CSIC**NANOTLVAC***New nanoparticles and nanocomplexes for tuberculosis and/or listeria vaccination* **Isabel García**, CICBIOMAGUNE**20:30 DINNER***Restaurante La Parrilla de San Lorenzo, c/Pedro Niño, 1, 47001 Valladolid***BONE REGENERATION***Castilla Hall*

Chair: TBC

CHONDRONANONET-2*Nanopatterned cell carriers for improved architectural communication networks in chondrogenesis towards osteoarthritic joint repair-2***Anna Lagunas**, IBEC**COATREG-3D***Bioactive coatings to promote tissue regeneration and ingrowth into 3D custom-made porous titanium endoimplant***Leonor Santos**, UMA**VASCUMAT***Nanostructured advanced technologies based on hybrid biomaterials for in situ regeneration to treat congenital pseudarthrosis and non-consolidating bone fractures***Óscar Castaño**, IBEC**OSTEOSILK***Silk/graphene-based biomaterials as scaffolds for orthopaedic surgery and bone tissue engineering***Rick Visser**, UMA**TUESDAY 13 NOVEMBER****9:00 PLENARY LECTURE II** *Imperial Hall*

Chair: TBC

Safety and proof-of-concept efficacy of drug loaded nano- and immunonanoparticles in transgenic lung and xenograft prostate cancer models, **Jürgen Borlak**, Hannover Medicine School**9:45 YOUNG RESEARCHERS BEST PAPERS AWARDS***Imperial Hall*

Chair: TBC

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10:45 COFFEE BREAK / POSTERS *Azalea, Europa & Simancas Halls***11:15 INTRAMURAL PROJECTS SESSIONS III & IV CANCER***Imperial Hall*

Chair: TBC

NANOPROTHER II*Tumor-targeted nanomedicines based on therapeutic protein-only nanoparticles***Antonio Villaverde**, IBB-UAB**NOTAGLI***Nosological Imaging as a Tool for adjusting therapy combination to improve glioma management: preclinical studies***Ana Paula Candiota**, UAB**GOLIATH***Gold-silica hybrids for light-assisted therapy of melanoma***Rafael Castillo**, UCM**NANOMETS-3***Drug nanconjugates and nanovesicles for targeted therapy in disseminated cancer***Isolda Casanova**, H. Sant Pau**CHRONIC DISEASES & OPHTHALMOLOGY***Castilla Hall*

Chair: TBC

INT-2-CARE*Intelligent platform for the integral care of complex patients* **Elena Hernando**, UPM**M-OLDOSA***Multimodal analysis and m-Health tools for diagnostic and monitoring improving of Obstructive Lung Disease and Obstructive Sleep Apnea patients* **Raimon Jané**, IBEC-UPC**ORDECA***Organic radicals and radical dendrimers to improve the magnetic resonance imaging* **José Vidal**, ICMA B-CSIC**MICRO-BRB***Microfluidic model of retinal neurovascular unit to identify new therapeutic targets in diabetic retinopathy***José Yeste**, CNM

CLU3

Taking glioblastoma progression monitoring to the next level: clinical use of MR spectroscopy through a radiologist-friendly interface based on unsupervised machine learning and 3D display,
Margarita Julia, UAB

DUROCAF

Durotaxis of cancer associated fibroblasts, **Raimon Sunyer, IBEC**

NANOCANTRI

Cancer Stem Cell Targeted Nanomedicines for Treating Triple Negative Breast Cancers,
Ibane Abasolo, H. Vall d'Hebron

DRUG-DIFF

Prediction of drug diffusion on complex biomimetic environment
Sara Oliván, UNIZAR

NANOHYPERThERMIA

Development of new nanoparticles and protocols for enhanced hyperthermia
J. Javier Serrano, CTB-UPM

EYEPOC-II

Point of care biosensor devices to detect biomarkers as evaluation end-points for therapeutic clinical trials in ocular surface inflammation,
Amalia Enríquez de Salamanca, IOBA

ORASI

Optogenetic approach in visual rehabilitation,
Lawrence Humphreys, UMH

13:15 LUNCH / POSTERS *Azalea, Europa & Simancas Halls*

INTERNAL MEETINGS

Monday 12 November

18:30-19:30 NANBIOSIS SCIENTIFIC ADVISORY BOARD
Iberia Hall

Tuesday 13 November

15:30- 18:30 SCIENTIFIC ADVISORY BOARDS & STEERING COMMITTEE ANNUAL MEETING
Iberia Hall



www.ciber-bbn.es

www.nanbiosis.es

www.ciberisciii.es



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12th-13th November 2018



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