

MONDAY 12 NOVEMBER

- 9:00 REGISTRATION**
- 9:30 OPENING** *Imperial Hall*
José Antonio Íñiguez Arboleda, General Directorate of Networks and Cooperative Research Centers, Instituto de Salud Carlos III
Matilde Alonso Rodrigo, Head of Research Area, Universidad de Valladolid
Ramón Martínez Mañez, CIBER-BBN Scientific Director
- 10:00 PLENARY LECTURE I** *Imperial Hall*
 Chair: **Jordi Aguiló**
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: **Jaume Veciana**
Research on Rare Diseases: Overview
Pablo Lapunzina, CIBERER Scientific Director, Hospital La Paz
Biotechnology applied to the diagnosis and treatment of rare diseases, **Rafael Artuch**, Hospital Sant Joan de Deu-CIBERER
New challenges in the treatment of hereditary myopathies
Jordi Díaz Manera, Hospital Santa Creu i Sant Pau-CIBERER
- 11:45 COFFEE BREAK/POSTERS** *Azalea, Europa & Simancas Halls*
- 12:30 SCIENTIFIC SESSION II: FRAILITY & HEALTHY AGEING** *Imperial Hall*
 Chair: **José Becerra**
Novel methods and tools to study frailty
Ander Matheu, Biodonostia Health Research Institute-CIBERFES
Technological solutions to improve healthcare attention for the elderly: Experimentation in real environments
Rodrigo Pérez Rodríguez, Hospital Getafe-CIBERFES
Frailty, what are we talking about?
Marta Checa López, Hospital Getafe-CIBERFES
- 13:30 LUNCH / POSTERS** *Azalea, Europa & Simancas Halls*
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| 15:00 DEBATE ON RARE DISEASES <i>Castilla Hall</i> | DEBATE ON FRAILITY & HEALTHY AGEING <i>Imperial Hall</i> | COFFEE BREAK / POSTERS <i>Azalea, Europa & Simancas Halls</i> |
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- 16:30 NANBIOSIS INFRASTRUCTURE** *Imperial Hall*
 Chair: **Simó Schwartz**
Nanbiosis: Achievements and further goals
Jaume Veciana, ICMA-B-CSIC
Bionand, the new node of NANBIOSIS
María L. García Martín, 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: **M. Pilar Marco**

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-CSIC

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: **Julio San Román**

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: **Ramón Martínez Mañez**
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: **Jesús Santamaría**
Automated detection of epileptic ripples in MEG using beamformer-based virtual sensors
Carolina Migliorelli, UPC
Alginate microcapsules incorporating hyaluronic acid recreate closer in vivo environment for mesenchymal stem cells
Alberto Cañibano-Hernández, UPV-EHU
An OFF-ON two-photon fluorescent probe for tracking cell senescence in vivo
Beatriz Lozano Torres, IQMA-UPV
Peptide-based nanostructured materials with intrinsic pro-apoptotic activities in CXCR4+ solid tumors
Naroa Serna, UAB
- 10:45 COFFEE BREAK / POSTERS** *Azalea, Europa & Simancas Halls*
- 11:15 INTRAMURAL PROJECTS SESSIONS III & IV**
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| CANCER
<i>Imperial Hall</i>
Chair: Ramón Mangues

NANOPROTHER II
<i>Tumor-targeted nanomedicines based on therapeutic protein-only nanoparticles</i>
Antonio Villaverde , IBB-UAB

NOTAGLI
<i>Nosological imaging as a tool for adjusting therapy combination to improve glioma management: preclinical studies</i>
Ana Paula Candiota , UAB

GOLIATH
<i>Gold-silica hybrids for light-assisted therapy of melanoma</i>
Rafael Castillo , UCM | OPHTHALMOLOGY & CHRONIC DISEASES
<i>Castilla Hall</i>
Chair: Raimon Jané

INT-2-CARE
<i>Intelligent platform for the integral care of complex patients</i>
Elena Hernando , UPM

M-OLDOSA
<i>Multimodal analysis and health tools for diagnostic and monitoring improving of obstructive lung disease and obstructive sleep apnea patients</i>
Raimon Jané , IBEC-UPC

ORDECA
<i>Organic radicals and radical dendrimers to improve the magnetic resonance imaging</i>
José Vidal , ICMA-B-CSIC |
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NANOMETS-3

Drug nanconjugates and nanovesicles for targeted therapy in disseminated cancer
Isolda Casanova, H. Sant Pau

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 Juliá, UAB

NANOCANTRI

Cancer stem cell targeted nanomedicines for treating triple negative breast cancers,
Ibane Abasolo, H.Vall d'Hebron

DUROCAF

Durotaxis of cancer associated fibroblasts
Raimon Sunyer, IBEC

DRUG-DIFF

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

NANOHYPERThERMIa

Development of new nanoparticles and protocols for enhanced hyperthermia
Elena Aznar, IQMA-UPV

ORASI

Optogenetic approach in visual rehabilitation
Lawrence Humphreys, UMH

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

MICRO-BRB

Microfluidic model of retinal neurovascular unit to identify new therapeutic targets in diabetic retinopathy
José Yeste, CNM



www.ciber-bbn.es

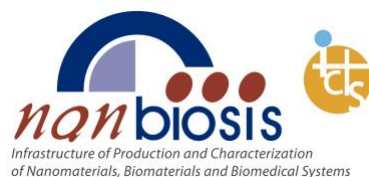
www.nanbiosis.es

www.ciberisciii.es

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CIBER-BBN 2018 ANNUAL CONFERENCE 12th- 13th November 2018



HOTEL FELIPE IV
Calle Gamazo, 16, 47004
VALLADOLID

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