### MONDAY 12 NOVEMBER

**9:00** | **REGISTRATION** | Imperial Hall
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**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 Mañé, CIBER-BBN Scientific Director
**10:00** | **PLENARY LECTURE I** | Imperial Hall
Chair: Jordi Aguilló
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: FRAILTY & 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

**15:00** | **DEBATE ON RARE DISEASES** | Castilla Hall
**DEBATE ON FRAILTY & HEALTHY AGEING** | Imperial Hall
**COFFEE BREAK / POSTERS** | Azalea, Europa & Simancas Halls

**16:30** | **NANOBIOSIS INFRASTRUCTURE** | Imperial Hall
Chair: Simó Schwartz
Nanobiosis: Achievements and further goals
Jaume Veciana, ICMAB-CSIC
Bionand, the new node of NANOBIOSIS
Maria L. García Martín, BIONAND
ALBA: Synchrotron Light for Health and Biomedicine
Nuria Valls, IKT Sincrotrón ALBA

**17:30** | **INTRAMURAL PROJECTS SESSIONS I & II**

**DIAGNOSIS & INFECTIOUS DISEASES**
*Imperial Hall*
*Chair: M. Pilar Marco*

**DIAGNOSIS**
*Chair: Julio San Román*

**NANOBIO-ATTACK**
Highly positively charged nanovesicular structures for the treatment of biofilm formation in lower extremity ulcers
Nora Ventosa, ICMAB-CSIC

**QS-PROFILE**
Immunochip of diagnostic strategies based on the quorum sensing system
M. Pilar Marco, ICMAC-CSIC

**NANOLVAC**
New nanoparticles and nanocomplexes for tuberculosis and/or listeria vaccination
Isabel García, CICBIOMAGUNE

**BONE REGENERATION**
*Castilla Hall*
*Chair: Rafael Castillio, UCM*

**DIABETIC FRAILTY**
*Chair: Leonardo Santos, CSIC*

**NEW STRATEGIES**
*Chair: Ana Paula Candiota, IGMAM-
INP*

**GATE 3**
*Chair: Beatriz Lozano Torres, IQMA*

**OSTEOSILK**
Silk/graphene-based biomaterials as scaffolds for orthopaedic surgery and bone tissue engineering
Rick Visser, UMA

**LUNCH / POSTERS** | Imperial Hall

**20:30** | **DINNER** | Restaurante La Parrilla de San Lorenzo, c/Pedro Niño, 1, 47001 Valladolid

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### TUESDAY 13 NOVEMBER

**9:00** | **PLENARY LECTURE II** | Imperial Hall
Chair: Ramón Martínez Mañé
Safety and proof-of-concept efficacy of drug loaded nano-and immunonanoparticles in transgenic lung and xenograft prostate cancer models
Jürgen Bolak, 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
Alginates microcapsules incorporating hyaluronic acid recreate closer in vivo environment for mesenchymal stem cells
Alberto Cañabano-Hernández, UPV-EHU
An OFF—ON two-photon fluorescent probe for tracking cell senescence in vivo
Beatriz Lozano Torres, ICMAB-CSIC
Peptide-based nanostructured materials with intrinsic pro-apoptotic activities in CCRX4+ solid tumors
Naroa Serna, UAB

**10:45** | **COFFEE BREAK / POSTERS** | Azalea, Europa & Simancas Halls

**11:15** | **INTRAMURAL PROJECTS SESSIONS III & IV**

**CANCER**
*Imperial Hall*
*Chair: Ramón Mínguez*

**NANOPROFILER II**
Tumor-targeted nanomedicines based on therapeutic protein-only nanoparticles
Antonio Villaverde, IBB-UAB

**NOTAGOS**
Nanoscale imaging as a tool for adjusting therapy combination to improve glioma management: preclinical studies
Ana Paula Candiota, IGMAM-INP

**GOLIATH**
Gold-silica hybrids for light-assisted therapy of melanoma
Rafael Castillio, UCM

**OPHTHALMOLOGY & CHRONIC DISEASES**
*Castilla Hall*
*Chair: Raimon Jané*

**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, IGMAM-INP

**ORDECA**
Organic radicals and radical dendrimers to improve the magnetic resonance imaging
José Vidal, ICMAB-CSIC

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**Note:** The schedule is subject to change. Please check the official program for the latest updates.
Drug nanconjugates and nanovesicles for targeted therapy in disseminated cancer

Isolda Casanova, H. Sant Pau

Optogenetic approach in visual rehabilitation

Lawrence Humphreys, UMH

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

Cancer stem cell targeted nanomedicines for treating triple negative breast cancers,

Ibáne Abasolo, H.Vall d’Hebron

Optogenetic approach in visual rehabilitation

Lawrence Humphreys, UMH

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

Microfluidic model of retinal neurovascular unit to identify new therapeutic targets in diabetic retinopathy

José Yeste, CNM

Durotaxis of cancer associated fibroblasts

Raimon Sunyer, IBEC

Prediction of drug diffusion on complex biomimetic environment

Sara Oliván, UNIZAR

Development of new nanoparticles and protocols for enhanced hyperthermia

Elena Aznar, IQMA-UPV

www.ciber-bbn.es

www.nanbiosis.es

www.ciberisciii.es

Hotel Felipe IV: 983 30 70 00

Sociedad Cooperativa Radio-Taxi Valladolid: 983 291411 / 983 207755

Radiotaxi Metropolitano Valladolid: 983 910400

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

Hotel Felipe IV

Calle Gamazo, 16, 47004

VALLADOLID