## General Information:

**MEETING VENUE:**

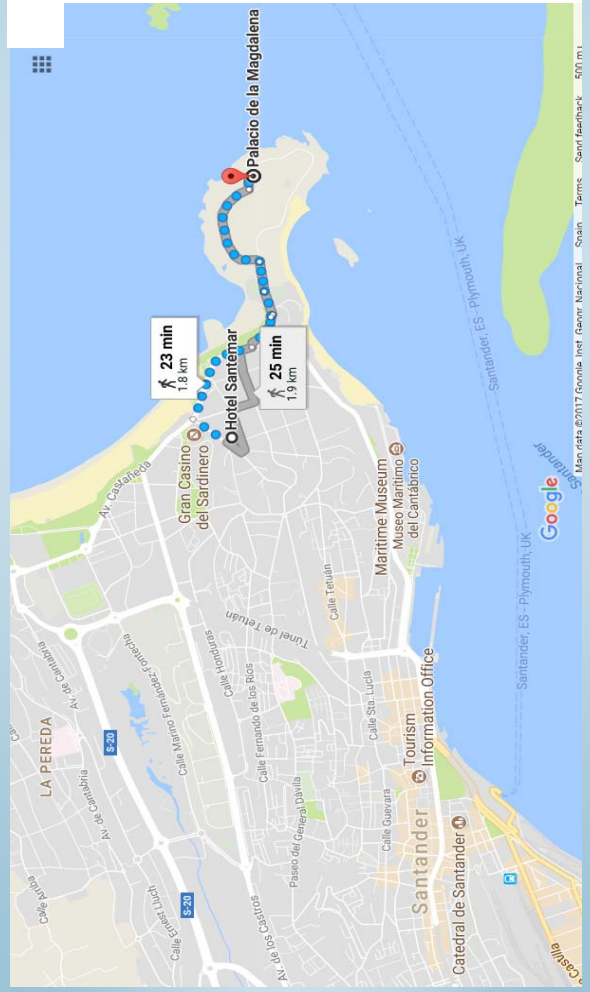
HOTEL SANTEMAR
Calle Joaquín Costa, 28,
39005 Santander,
Cantabria (Spain)
Phone: +34 942 272 900
Fax: +34 942 278 604

**BADGE** Identification badge will be necessary for admission to the scientific sessions and social events.

**FEE INCLUDES:**
- Access to all scientific sessions.
- Coffee and soft drinks in scheduled pauses.
- Dinner on Monday 13th in the Palace of *La Magdalena*.

**MEETING LANGUAGE:** English is the official language of the Meeting. All slides must be in English.

Taxi Santander: 942 33 33 33




# CIBER-BBN

## CENTRO DE INVESTIGACIÓN BIOMEDICA EN RED

## BIOINGENIERÍA, BIOMATERIALES Y NANOMEDICINA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# 11th CIBER-BBN ANNUAL CONFERENCE

**Santander, Nov. 13 – 14 2017**

**HOTEL SANTEMAR**
**Calle Joaquín Costa, 28, 39005 Santander**

## MONDAY, 13th NOVEMBER

**09:00** Registration

**09:30** Opening

- Ángel Pazos Carro. University of Cantabria Rector
- Mª Luisa Real. Cantabria Regional Government's Minister of Health
- Ramón Martínez Máñez. CIBER-BBN Scientific Director

**10:15** SCIENTIFIC SESSION INFECTIOUS DISEASES

*Chair: M. Pilar Marco*

- *Challenges in prevention of invasive pneumococcal disease and antibiotic resistance.* José Enrique Yuste (National Microbiology Centre, ISCIII, CIBERES)
- *Challenges in development of antimicrobial strategies alternative to the use of conventional antibiotics.* Junkal Garmendia (Agrobiotechnology Institute, CSIC)
- *The Perfect Storm: The Crisis of Antibiotics. Namomedicine in the era of Antibiotic Resistance.* Joan Gavaldà (Vall d'Hebron Research Institute)

**11:15** SCIENTIFIC SESSION CARDIOVASCULAR DISEASES

*Chair: Pablo Laguna*

- *CIBERCV challenges in preclinical research: from the molecule to a porcine model.* Borja Ibáñez (CNIC, CIBERCV)
- *CIBERCV challenges in clinical practice: from imaging-signals processing techniques to new therapies in regenerative medicine.* Javier Bermejo (University General Hospital Gregorio Marañón, CIBERCV)
- *CIBERCV challenges in the identification and validation of biomarkers.* Antonio Bayés- Genís (University Hospital Germans Trias i Pujol, CIBERCV)
- *Challenges of biomedical engineers in a Cardiology Unit.* Francisco Alarcón (Clinical and Provincial Hospital of Barcelona, CIBERCV)

**12:15** COFFE BREAK / Posters

**13:00** NANBIOSIS

*Chair: Jaume Veciana*

- *Past and Future of NANBIOSIS.* Jaume Veciana (NANBIOSIS Scientific Director)
- *3 Success stories*
  - *Success stories using an innovative approach to preclinical research.* Francisco M. Sánchez Margallo (NANBIOSIS Deputy Scientific Director and CCMIJU Scientific Director)
  - *PENTRI project: Synthesis and biological characterization of protein nanoparticles for the treatment of triple negative breast cancer. A joint effort of three NANBIOSIS Units (U1, U3 and U20).* Ibane Abasolo (Scientific Coordinator of Unit 20: *In vivo* Experimental Unit)
  - *Mimicking specific viral cell entry in the generation of protein-only nanoparticles targeting metastatic colon cancer stem cells. Symbiosis between U1 and U18 NANBIOSIS units.* Neus Ferrer (Scientific Director of Unit 1: Protein Production Platform)
- *Translational Medicine: navigating the long and winding pathway to the patient.* Anton Ussi (Operations & Finance Director for European Infrastructure for Translational Medicine -EATRIS)

**14,30** LUNCH / Posters

**16:00** NEW CIBER THEMATIC AREAS INSTITUTIONAL PRESENTATIONS

*Chair: Ramón Martínez-Máñez*

- CIBERONC (Oncology), Joaquín Arribas, CIBERONC Scientific Director
- CIBERCV (Cardiovascular Diseases), Javier Bermejo, CIBERCV Scientific Deputy Director
- CIBERFES (Fragility and Healthy Ageing), Adolfo Diez, CIBERFES Steering Committee Member

**17:00** PARALLEL DEBATES FOR SCIENTIFIC SESSIONS (Infectious/Cardiovascular)

**19:00** END

**20:30** DINNER (Palace of *la Magdalena*)

## TUESDAY, 14th NOVEMBER

**9,30** PLENARY LECTURE 1

*Chair: Simó Schwartz*

*Regulatory Strategy. Navigating through the regulations.* Xavier Luria, Drug Development & Regulation.

**10,30** 2018-2021 STRATEGIC PLAN PRESENTATION

**11:30** COFFE BREAK / Posters

**12:15** COLLABORATIVE PROJECTS WITH CIBERES and SEPAR (2nd edition)

*Chair: Jordi Aguiló*

- **MICROCOPD.** *3D analysis of vascular architecture in emphysematous lungs using microcomputed tomography (microCT).* Ignacio Ochoa
- **PVI-ANS-NCOG.** *Effects of an early neurocognitive intervention on patient-ventilator interaction and stress in critically ill patients receiving mechanical ventilation.* David Hernando
- **TARMAC.** *New tools for the diagnosis and treatment of respiratory infectious diseases: pH-responsive matryoshka nanoparticles for an efficient and controlled intracellular delivery of oral antibiotics and gated nanoparticles for the detection of pathogenic microorganisms showing intracellular persistence.* Elena Aznar and Manuel Arruebo

COLLABORATIVE PROJECTS WITH IMIBIC

- **MICROANGIOTHECAN.** *A Biomimetic Microfluidic Device for the Development of Predictive Markers to Antiangiogenic Therapy in Cancer.* Ignacio Ochoa

**13:15** PLENARY LECTURE 2

*Chair: Julio San Román*

*Blue to Red Biotechnology: using macromolecules from marine origin in tissue engineering* João Mano, University of Aveiro.

**14:15** CLOSING

**14:30** LUNCH / Posters

## INTERNAL MEETINGS

***Monday 13th November***

**18:00 – 19:30** NANBIOSIS SCIENTIFIC ADVISORY BOARD

***Tuesday 14th November***

**16:30 – 18:30** CIBER-BBN SCIENTIFIC ADVISORY BOARDS / STEERING COMMITTEE MEETING