MONDAY, NOVEMBER 30TH

09.00 REGISTRATION

09.30 OPENING SESSION + INITIATION TO RESEARCH AWARDS
José Capilla Romá, Vice-Rector for Research, Innovation & Transfer, UPV
Margarita Blázquez Herranz, Vice-Director of the Sub-Directorate for Networks and Cooperative Research Centers, ISCIII
Ramón Martínez Mañez, Scientific Director of CIBER-BBN

10.15 PLENARY SESSION 1: RNA and Biomaterials for Musculoskeletal Regenerative Medicine
Martin van Groen, M.D. Department of Trauma Surgery, Klinikum Rechts der Isar. Technical University Munich.
Chairman: Julio San Román

11.00 EUROPA REDES Y GESTORES Project. Internationalization Platform
Cristina Rodriguez, CIBER-BBN, CIBERES, CIBERER
Chairman: Pablo Lagunza

11.30 COFFEE BREAK / POSTERS

12.00 INTRAMURAL PROJECTS (category Excellence)
Chairman: Jaume Veciana

12.10 NANOHYPERTHERMIA
Development of new nanoparticles and protocols for enhanced hyperthermia
José Javier Serrano Olmedo. Center for Biomedical Technology-Bioengineering and Telemedicine Group, UPyD.

12.20 MAGNETO-NH IA
Multipleplexed determination of pathogenic bacteria in sepsis by novel magneto-nanohollows immunoassay
Juan Pablo Salvador Vico. Nanobiotechnology for Diagnostics Group, CSIC

12.30 BIO-GATE
New nanoparticles containing bio-gated scaffolds for tuberculosis diagnosis
Elena Aznar Gimeno. Applied Molecular Chemistry Group of IDM, UPV.

12.40 BIOPRINTING
The high potential of new biocompatible materials and 3D printing technologies for tissue engineering
David Rodríguez García. Center for Biomedical Technology-Bioengineering and Telemedicine Group, UPyD.

13.00 OLIGOCODES
A universal Diagnostic Platform Based On Oligonucleotide Codified Nanoparticles and DNA Microarray Sensor Devices
Mª Pilar Marco Colás. Nanobiotechnology for Diagnostics Group, CSIC

13.20 MOLOGIO
Molecular Imaging strategies for development of surrogate biomarkers of early therapy response/resistance detection in glioblastoma
Carles Anús Caraltó. Research Group in Biomedical Applications of Nuclear Magnetic Resonance, UAB.

13.30 MUDIRES-2PSD
Multimodal Diagnosis by Signal Interpretation of the Respiratory System oriented to Pulmonary Diseases and Sleep Disorders
Raimon Jané Campos. Biomedical Systems and Signals Research Group, IBEC

13.40 NANOXEN++
Xenopus TropicaIs as a platform to test light-regulated drugs with applications in nanomedicine
Pau Gorostiza Langa. Nanomembrane Group, UB

13.50 NANOMETS
Drug nanconjugeats and nanovesicles for the treatment of metastatic colorectal cancer
Ramón Mangues Bafalluy. Oncogenesis and Antitumour Drug Group, IIB SANT PAU

14.00 LUNCH / POSTERS

15.30 INTRAMURAL PROJECTS (category Excellence)
Chairman: Julio San Román

15.40 E-LEUKEMIA
The nanocanduicept of reox proteins of the respiratory chain and its physiopathological implication in leukenia
Pau Gorostiza Langa. Nanomembrane Group, UB

15.50 BIOMIMES
New abdoliminal biometric prothesies to improve adaptation to host tissue properties. Application in hernia repair
Gemma Pascual González. Translational Research Group in Biomaterials and Tissue Engineering, UAB.

16.00 HOT-SCAFF
Plasmic scaffolds for deliberate regulation of transgene expression in bone tissue engineering
Nuria Vilaboa Díaz. Research Group in Bone Physiopathology and Biomaterials, FIOBI-HULP.

16.10 NANOPROTHER
Cell-targeted nanomedicines base on therapeutic, protein-only nanoparticles
Antoni Villaverde Corrales. Nanobiotechnology Group, UAB.

16.20 COLOCOMB
Combatory and targeted nanomedicines for the treatment of advanced colorectal cancer
Simó Schwartz Navarro. Drug Delivery and Targeting Group, VHIR.

16.30 NANO-OPHTHAL
New si-RNA-nanoparticle conjugates for the treatment of ocular surface inflammations
Santiago Sala Vergés. Molecular Nanoscience and Organic Materials Group, CSIC.

16.40 CP-SENS
Development of a biosensing diagnostic tool for the fast identification of infection by Pneumocystis
Anna Avinyó Andrés. Nucleic Acid Chemistry Group, CSIC.

16.50 BIOSURFACES
Biofunctionalization of titanium implant surfaces: protein conformation, osseointegration and antimicrobial activity
José Luís Gómez Ribelles. Biomaterials Centre, UPyD.

17.00 PS VALVE
Patient-Specific image-based computational flow dynamic simulations for assessment of optimal biological aortic Valve replacement selection and delivery
Miguel Ángel Martínez Barca. Group of Structural Mechanics and Materials Modeling, UZ.

17.10 DYNAMIC-VASC
Dynamic Molecular Bio-Interfaces for Controlled Environments
Towards Vascular Morphogenesis
Inma Ratera Bastardas. Molecular Nanoscience and Organic Materials Group, CSIC.

17.20 TEA
New Therapeutic Approaches for Retinal Degenerative Diseases
Eduardo Fernández Jover. Neuroprosthesis and Neuroengineering Research Group, UMH

17.30 COFFEE BREAK / POSTERS

18.00 INTRAMURAL PROJECTS (category Excellence)
Chairman: Ramón Mangues

18.00 B-CUBE
Microfluidic blood-brain barrier model for screening of novel pharmacological drugs
Rosa Villa Sanz. Biomonitoring Group, UAB

18.10 ULTRASEN-4BIO-2MD
Characterization and evaluation of novel ultrasensitive piezoresistive all-organic sensors for biomedical signals applied to multimodal diagnosis
Raimon Jané Campos. Biomedical Systems and Signals Research Group, IBEC.

18.20 ORDECA
Organic Radicals and Radical Dendrimers as Contrast Agents in Magnetic Resonance Imaging
José Vidal Gancedo. Molecular Nanoscience and Organic Materials Group, CSIC.

18.30 Presentaciones resultado I convocatoria CIBER-BBN, CIBERES y SEPAR
Chairman: Ramón Mangues

18.40 NANOBIOPHREATS
Design and evaluation of a novel impedimetric immunoassay for the diagnosis of respiratory sepsis origin due to Pseudomonas aeruginosa
Mª Pilar Marco Colás. Nanobiotechnology for Diagnostics Group, CSIC

19.10 BUS TO HOTEL

20.30 DINNER
HOTEL BARCELÓ, Av. de França, 11, 46023 Valencia
TUESDAY DECEMBER, 1ST

09.00  **PLENARY SESSION 2: Knowledge, Technology and Value in Health**
Juan Bigorra M.D, Ph.D.
Director Strategy and Innovation Barcelona Global Health Institute
Senior Advisor Innovation. University of Barcelona Clinic Hospital
Chairman: José Becerra

09.40  **NEW CIBER-BBN GROUP PRESENTATION**
Chairman: Ramón Martínez Málnez

10.00  **NANOBIOCEL PRESENTATION**
Chairman: José Becerra

10.40  **GROUPS PRESENTATIONS / HIGHLIGHTS**
Chairman: José Becerra

11.00  Towards a safe and non-invasive approach for the treatment of inherited retinal diseases
Gustavo Puras Ochoa. NANOBIOCEL: Micro and Nano Technologies, Biomaterials and Cells Research Group, UPV/EHU

11.04  Effect of cell adhesion and surface stiffness on T cell activation using nanostructures
Judith Guasch Camell. Molecular Nanoscience and Organic Materials Group, CSIC

11.12  **COFFEE BREAK / POSTERS**

11.45  **GROUPS PRESENTATIONS / HIGHLIGHTS**
Chairman: Raimon Jané

11.45  Prokaryotic protein nanocages based on human vaults: a new drug delivery system?
José Luis Corchero Nieto. Nanobiotechnology Group, UAB

12.01  Multifunctional polymeric nanoparticles as advanced delivery systems across the blood-brain barrier
Aurora Dols Pérez. Colloidal and Interface Chemistry Group, CSIC

12.09  Silk-graphene-based biomaterials for tissue engineering
Rick Visser. Tissue Bioengineering and Regeneration Laboratory (LABRET), UMA

12.17  New drug eluted stents for vascular applications. From the laboratory to the clinical application
Julio San Román del Barrio. Biomaterials Group, CSIC.

12.25  **Biomedical Engineering Group University of Seville: Translation to the Public Health System and Industry**
Lara Mª Roa Romero. Biomedical Engineering Research Group, US

12.33  **Integrated Project of Excellence derived from NanoMets Intramural Project**
Ramón Mangues Bafullay. Oncogenesis and Antitumour Drug Group, IIB SANT PAU

12.41  **Neurogenesis and vascularization of the damaged brain using a biomimetic scaffold**
Elisabeth Engel López. Research Group in Biomaterials, Biomechanics and Tissue Engineering, IBEC

12.49  **Single molecule footprinting of nucleic acid drugs**
Félix Ritort Farran. Small Lab, UB

12.57  **Highlights grupo GEMM**
Miguel Ángel Martínez Barca. Group of Structural Mechanics and Materials Modeling, UZ

13.05  **Null Diffusion Statistics for the Enrichment of Metabolomics Data**
Álex Perera Lluna. Biomedical Systems and Signals Research Group, IBEC

13.15  **YOUNG SCIENTIST FORUM ON BIOMATERIALS**

13.15  **CIBER-BBN YSF in Biomaterials Award**

13.30  Being successful in ERC Calls. The advantages of a Consolidator Grant
María Jesús Vicent. Polymer Therapeutics Lab. Centro de Investigación Príncipe Felipe

13.45  Promotion of the Scientific, Technological and Innovative Culture in Biomedicine
Joana Magalhaes. Tissue Bioengineering and Cell Therapy Group, CHUAC, INIBIC

14.00  **CLOSING**

14.15  **LUNCH**

17.00  **STEERING COMMITTEE & ADVISORY BOARDS MEETING**

**JORNADAS CIBER-BBN 2015**

**Valencia, 30 nov - 1 dic 2015**

**AUDITORIO. Edificio 8B, Planta 3º, Cubo Azul**
**Universidad Politécnica de Valencia**
**Camino de Vera s/n, 46022 Valencia**