

9.50 *Biological activity of matrix proteins at the cell-material interface.* BIOPROTERIAL. **José Luis Gómez**, CBM-UPV.

10.10 *Bio-engineered stem cell niches in ocular surface reconstruction: from basic research to clinical trials.* BIOSCAFF-EYE. **Margarita Calonge**, IOBA-UVA.

10.30 *Use of human pluripotent stem cells as vehicles for localized delivery of therapy.* ES-CELLTHERAPY. **Jerónimo Blanco**, TC-CSIC.

10.50 COFFEE BREAK

PARALLEL SESSIONS

Biomaterials session

Chairperson: **Margarita Calonge**
Salón **MEDITERRÁNEO** (floor 1)

11.30 *Microfluidic devices supporting renal-like tissue to complement hemodiafiltration and for the administration of regenerative therapies.* MICROREN. **Luis Fernández**, GEMM-I3A.

11.50 *New approaches for cartilage regeneration.* NACRE. **Cristina Ruiz**, CBTTC-CHUAC.

12.10 *Elastic like recombinant polymers for wound healing applications.* REWOUND. **Elisabeth Engel**, GBBIT-IBEC.

12.30 *3D scaffolds and implants functionalized and reinforced with recombinant protein polymers for regenerative medicine.* SCAFFTIDE 3D. **Ana García Fonoteca / María Vallet**, GIBI-UCM.

12.50 *Titanium-supported engineered bone tissue for orthopaedic surgery.* TELTIS. **Leonor Santos / José Becerra**, LABRET-UMA.

13.15 NEW ADMINISTRATION OFFICE PRESENTATION

Manuel Sánchez, Managing Director CIBER

14.00 END OF THE CONFERENCE

Margarita Blázquez, **Pablo Laguna** and **José Becerra**

14.20 LUNCH (buffet at hotel restaurant)

Nano-scaffolds for the reimplantation of detached retina. NANORETINA. **José Javier Serrano**, GBT-UPM.

Targeting cancer stem cells to improve the therapy of advanced breast cancer. NANOSTEMNESS. **Petra Gener**, GDLF-HUVH.

Nanocarriers for antiapoptotic drug transport across the Blood-Brain-Barrier. NANO-TRANS-BRAIN. **Conxita Solans**, QCI-CSIC.

Nanomedicine Session

Chairperson: **Jesús Santamaría**
Salón **TORREMOLINOS** (floor 0)

Use of optical molecular nanoswitches to control nervous functions in xenopus tropicalis. NANOXEN. **Pau Gorostiza**, NANOMEMB-UB.

A universal diagnostic platform. OLIGOCODES. **Pilar Marco**, Nb4D-IQAC-CSIC.

Unraveling the mechanisms of action of cell-penetrating and anticancer peptides: bringing together single molecule, cell assays and bulk characterization. PEPSIN. **Félix Ritort**, BIOSMALL-UB.

Gold nanoparticles for the thermal ablation of tumor cells and for the activation of therapeutic genes. PHOTOTHERAPY. **Jesús Santamaría**, NFP-INA.

ciber-bbn
Centro Investigación Biomédica en Red
Biotecnología, Biomateriales y Nanomedicina



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ANNUAL CONFERENCE

ciber-bbn

November 21st - 22nd, 2013

Hotel Meliá Costa del Sol
Torremolinos, Málaga



7th ANNUAL CONFERENCE CIBER-BBN

November 21st-22nd, 2013
Hotel MELIÁ COSTA DEL SOL, Torremolinos, Málaga



21st NOVEMBER

8.15 REGISTRATION

9.00 PLENARY SESSION

Salón **MÁLAGA** (floor -1)
Chairperson: **M. Pilar Marco**
Conference: *Polymer conjugates as nanosized medicines*. M^a **Jesús Vicent**, Centro de Investigación Príncipe Felipe.

10.00 OPENING SESSION

Salón **MÁLAGA** (floor -1)
Lisardo Bosca, Deputy Director General of the Sub-Directorate for Research Promotion and Evaluation at the Instituto de Salud Carlos III.

Pablo Laguna Lasaosa, Scientific Director of the CIBER-BBN

Adelaida de la Calle Martín, President University of Málaga

10.30 PRESENTATION OF THE RESEARCH INITIATION FELLOWSHIPS

Salón **MÁLAGA** (floor -1)

10.45 COFFEE BREAK

(Barlovento)

PARALLEL SESSIONS

Bioengineering and Biomedical Imaging Session

Chairperson: **Pablo Laguna**
Salón **MEDITERRÁNEO** (floor 1)

11.15 *Towards a body area network to measure stress levels*. ES3. **Jordi Aguiló**, GBIO-CNM.

11.35 *Non-invasive monitoring of intraocular pressure through a micro-nanotechnology based sensor contact lens*. GLAUCO-ESENTINEL. **Jordi Aguiló**, GBIO-CNM.

11.55 *Indexes obtained from computational models multiscale multimodal biomedical signals for the diagnosis of cardiac pathologies*. INDI-MUSICA. **Pablo Laguna**, GTC-ISA.

12.15 *Multimodal imaging tools for neurological diseases*. MIND-t. **Andrés Santos**, BIT-UPM.

Nanomedicine Session

Chairperson: **Jesús Santamaría**
Salón **TORREMOLINOS** (floor 0)

New nanoparticles containing bio-gated scaffoldings for diagnosis and delivery applications. BIO-GATES. **Ramón Martínez Máñez**, IQMA-UPV.

New orthotopic ectopic nude mice model of human thyroid undifferentiated/anaplastic carcinoma: Useful tool for new cell-therapies, drug testing and validation in humans. CELL-NANO_THYROID. **Alberto Leiva**, EDUAB-HSP.

Glyconanoparticles and glycodendrimers as new tools to fight HIV transmission. GLYCOHIV. **Soledad Penadés**, LNB-CICBIO.

Advanced diagnostic tool for early identification of liver failure. LIVERPOC. **Laura Lechuga**, ICN2.

12.35 *Multimodal diagnosis by interpretation of multiscale signals in the respiratory system*. MUDIRES. **Raimon Jané**, SISBIO-UPC-IBEC.

12.55 *Personalized decision support for enhanced control in pervasive healthcare platforms*. PERSONA. **Elena Hernando**, GBT-UPM.

13.15 LUNCH

(Barlovento)

PARALLEL SESSIONS

Bioengineering and Biomedical Imaging Session

Chairperson: **Jordi Aguiló**
Salón **MEDITERRÁNEO** (floor 1)

14.30 *Improving diagnosis, prognosis and therapy response in glioma and stroke, Preclinical and translational studies*. PROGLIO2. **Carles Arús**, GABRMN-UAB.

14.50 *Development of new therapeutic approaches for retinal dystrophies*. RETINA. **Eduardo Fernández**, NN-UMH.

15.10 *Advanced micro-chamber for organotypic cell culture monitorization*. MICHOR-MON. **Bernardo Celda**, GABRMN-UVEG.

15.30 *Telemedical artificial pancreas: Clinical Validation*. TAP-VAL. **Alberto Leiva**, EDUAB-HSP.

15.50 *Image guided therapies for safer minimally invasive surgeries*. THEMIS. **Ignacio Oropesa**, GBT-UPM.

16.10 *Disposable multiplexed microsensor for direct detection of BNP and Troponin by impedance measurements*. TROPNA. **Jordi Aguiló**, GBIO-CNM.

Development and biological evaluation of metalloproteinase-sensitive multifunctional carriers for the combined therapy of advanced colorectal cancer. METALOTRIGGER. **Ibane Abasolo**, GDLF-HUVH.

Nucleic acids derivatives as potential drugs. NADD. **Ramón Eritja**, GQNA-CSIC.

Nanomedicine Session

Chairperson: **M. Pilar Marco**
Salón **TORREMOLINOS** (floor 0)

Nano-engineering inclusion bodies as new biomaterials for cell proliferation. NAINBO2. **Inma Ratera**, NANOMOL-CSIC.

New nano approaches for HIV microbicide drugs. NANOBICIDE. **Rafael Gómez**, GDAB-UAH.

Development of nanoparticles as vehicles for the treatment of metastatic colorectal cancer. NANOCOMETES. **Ramón Mangués**, GOA-HSCSP.

Development of nanomedicines for enzymatic replacement therapy in Fabry disease. NANOFABRY. **Simó Schwartz**, GDLF-HUVH.

Development of new nanoparticles and protocols for enhanced hyperthermia. NANOHYPERTERMIA. **José Javier Serrano**, GBT-UPM.

Nanobioanalytical platforms for improved medical diagnosis of infectious caused by pathogen microorganisms. NANOMEDIAG. **Josep Samitier**, NANOMED-IBEC.

16.30 *Characterization and validation of novel ultrasensitive piezoresistive all-organic sensors for multimodal biomedical signals*. ULTRASEN-4BIO. **Raimon Jané**, SISBIO-UPC-IBEC.

17.00 CIBER-BBN MASTER PLAN

Salón **MÁLAGA** (floor -1)

PARALLEL SESSIONS

17.30 Organized Presentations of new project ideas

Chairperson: **Simó Schwartz**
Salón **TORREMOLINOS** (floor 0)

Coffee break & networking

(salón **BARLOVENTO**)

18.30 / 20.00 POSTER SESSION

(salón **BARLOVENTO**)

20.30 DINNER

(**Casa Juan Los Mellizos**)

22nd NOVEMBER

8.30 PLENARY SESSION

Salón **MÁLAGA** (floor -1)
Chairperson: **Jordi Aguiló**
Conference: *A Description of the Human Brain Project*. **Vicente Martín**, Universidad Politécnica de Madrid.

PARALLEL SESSIONS

Biomaterials session

Chairperson: **José Becerra**
Salón **MEDITERRÁNEO** (floor 1)

9.10 *Development and validation of a new prosthetic implant concept for the repair of abdominal wall defects*. ABDOMESH. **Gemma Pascual**, GITBIT-UAH.

9.30 *Biomimetic extracellular matrices for angiogenic activation and anti-inflammatory activity in regenerative medicine*. BIOGELANGIO. **Julio San Román**, GBP-CSIC.

Nanomedicine session

Chairperson: **Simó Schwartz**
Salón **TORREMOLINOS** (floor 0)

Developing of electrophoretic and photonic techniques for pathogenic microbes identification and monitoring. NANOPHOR. **José Javier Serrano**, GBT-UPM.

Tuning nano-architecture and function in protein-only artificial viruses. NANOPROVIR. **Antoni Villaverde**, NBT-UAB.