

7th MAY / MORNING

9:00 h. **Flash presentations by junior group members.**

11:00h. **Poster session.**

11:15h. **Coffee Break.**

11:30h. **Optional:** guided visits to the architectural complex of Hospital de la Santa Creu I Sant Pau.

END OF THE CONFERENCE

Meeting rooms will be available for project kick off meetings.

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Centro Investigación Biomédica en Red
Bioingeniería, Biomateriales y Nanomedicina



4TH

May 6th&7th, 2010

**Annual
Conference**

Location:
Auditorium, Sant Pau Hospital (Barcelona)

6th MAYO / MORNING

9:00 h. **Arrival**

9:50 h. **Opening session**
D. José Jerónimo Navas Palacios,
 General Director of the Instituto de Salud Carlos III
D. Jaime Kulisevsky, Research Director of
 the Hospital de la Santa Creu i Sant Pau

Introduction to the conference
D. Manuel Doblare Castellano,
 Scientific Director of the CIBER-BBN

10:10 h. **Master Plan 2010-2013 (Manuel Doblare)**
 Cross Programmes
 · Translational research
 · Industrial transfer
 · Equipment
 · Training
 · Disclosure

10:45h. **Coffee Break**

11:15h. **Intramural research programme:**
 presentations of the new intramural
 projects

Bioengineering area

- Improving diagnosis, prognosis and therapy response in human glioma. Preclinical and translational studies. **Ana Paula Candiota**, U. Autònoma de Barcelona.
- Development of new therapeutic approaches for retinal dystrophies. **Eduardo Fernández**, U. Miguel Hernández.
- Indexes obtained from computational models and multiscale multimodal biomedical signals for the diagnosis of cardiac pathologies. **Pablo Laguna**, U. de Zaragoza.

Biomaterials area

- New therapeutic strategy as vehicles for localized delivery of therapy to brain tumors. **Jerónimo Blanco**, CSIC.
- Biological activity of matrix proteins at the cell-material interface. **Manuel Monleón**, U. Politècnica de Valencia.

- Development and validation of a new prosthetic implant concept for the repair of abdominal wall defects. **Juan Manuel Bellón**, U. de Alcalá de Henares.
- Cell Mechanics: understanding mechanotransduction and cell-substrate interaction mechanisms. Applications in cell therapy and tissue engineering. **Nuria Vilaboa**, Hospital la Paz de Madrid.
- Extracellular matrices for angiogenic activation and anti-inflammatory activity in regenerative medicine. **Julio San Román**, CSIC.
- New Approaches for Cartilage Regeneration. **Francisco Blanco**, Complejo Hospitalario A Coruña.
- 3D scaffolds and functionalized implants for regenerative medicine. **Mercedes Vila**, U. Complutense de Madrid.
- Bio-engineered cell in ocular surface reconstruction for corneal blindness: from basic research to clinical trials. **Margarita Calonge**, U. de Valladolid.

14:00h. **Lunch**

6th MAY / AFTERNOON

15:30h. **Intramural research programme:** presentations
 of the new intramural projects

Nanomedicine area

- New orthotopic/ectopic nude mice model of human thyroid undifferentiated/anaplastic carcinoma: Useful tool for new cell-therapies, drug testing and validation in humans. **Eugenia Mato**, Hospital Sant Pau
- Development of new nanoparticles and protocols for enhanced hyperthermia. **Francisco del Pozo**, U. Politècnica de Madrid.
- Nano-engineering inclusion bodies as new biomaterials for cell proliferation. **Jaume Veciana**, CSIC.
- Targeted therapy to improve the treatment of advanced breast cancer. **Simó Schwartz**, Hospital Vall d'Hebron.
- Nanobiosensor platforms for prognosis and predictive detection of Acute Myeloid Leukemia. **Laura Lechuga**, CSIC.
- A universal diagnostic platform. **Francisco Sánchez**, CSIC.
- Nanoparticles as new tools to fight HIV transmission. **Soledad Penadés**, CIC biomaGUNE.
- Use of non-invasive techniques to control nervous functions in animal models. **Fausto Sanz**, U. de Barcelona.

- Development of nanoparticles as vehicles for the treatment of metastatic colorectal cancer. **Ramón Mangués**, Hospital Sant Pau.
- Nanobioanalytical platforms for improved medical diagnosis of infections caused by pathogen microorganisms. **Josep Samitier**, IBEC.

Projects of the translational research program.

Multimodal diagnosis by interpretation of multi-scale signals in the Respiratory system. **Raimon Jane**, IBEC.

Nanoscaffolds for the re-implantation of detached RETINA. **José Javier Serrano**, Universidad Politècnica de Madrid.

Project of the equipment platforms program

Library of Tools for the Virtual Physiological Human. **Alejandro Frangi**, U. Pompeu i Fabra.

Project of the industrial transfer program

Non-invasive monitoring of intraocular pressure through a micronanotechnology based sensor contact lens. **Jordi Aguiló**, Centro Nacional de Microelectrónica.

17:30h. **Coffee Break**

18:00h. **Societies/Thematic networks**

Javier García- Sancho, Coordinator. Spanish Cell Therapy Network. RED TERCEL.
Enrique J. Gómez, General Secretary. Spanish Society of Biomedical Engineering. SEIB.
Joaquín Casariego, Technical Director Spanish Consortium to support Biomedical Research Networks. CAIBER.
Juan José Vaquero, Clinical Innovation Network.
Magí Farré, Committee Member. Spanish Clinical Pharmacology Society. SEFC.
Dr. Alvar Agustí, Scientific Director. Biomedical Research Networking Center on Respiratory Diseases. CIBERES.

20:30h Dinner