

# NEURO REGENERATION

IS IT THE COMMON FRONTIER FOR  
BIOENGINEERING, NEUROSCIENCE,  
ROBOTICS AND NEUROREHABILITATION?

PROGRAM

COSMOCAIXA. C/ ISAAC NEWTON, 26. BARCELONA

**Wednesday, October, 23<sup>rd</sup>, 2013**

9:00 **Registration**

9:30 **Welcome**

9:50 **SESSION 1: NEUROREGENERATION, IS THERE ALREADY A  
TRANSLATIONAL EXPERIENCE IN CLINICAL PRACTICE?**

Chair: **Joan Vidal**, Institut Guttman, Barcelona, Spain

10:00 **Learning from Nerve Repair. Schwann Cell Transplantation into the Injured Spinal Cord**  
**James D. Guest**, University of Miami, Miami, USA

10:45 **Coffee break**

11:15 **Daniel P. Lammertse**, University of Colorado, USA

12:00 **John Steeves**, University of British Columbia, Vancouver, Canada

12:45 **Clinical Translation of Human Neural Stem Cells for Neurodegenerative Disorders**  
**Ann Tsukamoto**, StemCells INC, Newark, Canada

13:30 **Lunch**

B-DEBATE IS AN INITIATIVE OF:



WITH THE COLLABORATION OF:

# NEURO REGENERATION

IS IT THE COMMON FRONTIER FOR  
BIOENGINEERING, NEUROSCIENCE,  
ROBOTICS AND NEUROREHABILITATION?

**Wednesday, October, 23<sup>rd</sup>, 2013**

**15:00 SESSION 2: WHICH ARE THE KEYSTONES IN  
NEUROREGENERATION TO BUILD UP A PATHWAY TO THE  
CLINICS?**

Chair: **Anna Veiga**, Centre de Medicina Regenerativa de Barcelona, Barcelona, Spain

**15:10 Reprogramming and Regeneration Strategies for Healing and Improving Human Health**  
**Juan Carlos Izpisua**, Salk Institute for Biological Studies, San Diego, USA and Center for  
Regenerative Medicine, Barcelona, Spain

**15:50 Preclinical Studies of Rho Inhibition to Enhance Axonal Regeneration After SCI**  
**Marina Mata**, University of Michigan, USA

**16:30 Coffee break**

**16:40 Preclinical Studies of Rho Inhibition to Enhance Axonal Regeneration After SCI**  
**David Fink**, University of Michigan, USA

**17:20 Challenges for Clinical Translation of Stem Cells in Amyotrophic Lateral Sclerosis**  
**Letizia Mazzini**, Eastern Piedmont University, Novara, Italy

**18:00 Visit to CosmoCaixa**

**19:00 Cocktail at CosmoCaixa**

B-DEBATE IS AN INITIATIVE OF:



WITH THE COLLABORATION OF:



# NEURO REGENERATION

IS IT THE COMMON FRONTIER FOR  
BIOENGINEERING, NEUROSCIENCE,  
ROBOTICS AND NEUROREHABILITATION?

**Thursday, October, 24<sup>th</sup>, 2013**

**9:30    SESSION 3: IS NEUROREGENERATION THE “NEXT STOP” IN  
SPINAL CORD INJURY MEDICAL CARE?**

Chair: **Xavier Navarro**, Institut de Neurociències, UAB Barcelona, Spain

**9:40    Future Regenerative Therapies**

**James Fawcett**, University of Cambridge, United Kingdom

**10:25    Coffee break**

**10:45    Towards the Combination of Cell Therapy and Neurosteroid Treatment to Repair  
the Injured Spinal Cord**

**François Féron**, Centre National de la Recherche Scientifique, Marseille, France

**11:30    Armin Blesch**, Universitätsklinikum Heidelberg, Germany

**12:15    Alessandro Vercelli**, Neuroscience Institute of the Cavalieri Ottolenghi Foundation, Faculty of  
Medicine and Surgery, and Neuroscience Institute of Turin (Torino, Italy)

**13:00    Lunch**

B-DEBATE IS AN INITIATIVE OF:



WITH THE COLLABORATION OF:





# NEURO REGENERATION

IS IT THE COMMON FRONTIER FOR  
BIOENGINEERING, NEUROSCIENCE,  
ROBOTICS AND NEUROREHABILITATION?

**Thursday, October, 24<sup>th</sup>, 2013**

**14:30 SESSION 4: IS NEUROREGENERATION FEASIBLE WITHOUT A  
MULTIDISCIPLINARY APPROACH?**

Chair: **Joan Comella**, Vall d'Hebron Institut de Recerca, Barcelona, Spain

**14:40 V. Reggie Edgerton**, UCLA University, Los Angeles, USA

**15:20 Neuroregeneration and Neuroengineering – Competition or Convergence?**  
**Rüdiger Rupp**, Universitätsklinikum Heidelberg, Germany

**16:00 Coffee break**

**16:10 Neural Interfaces for Restoring Communication and Mobility**  
**Leigh R. Hochberg**, Brigham and Women's Hospital, Boston, USA

**16:50 Putting the Word "Cure" in Neurological Rehabilitation: a Field Comes of Age**  
**Rajiv Ratan**, Weill Cornell Medical College, New York, USA

**17:30 Characterization and Modulation of Brain Plasticity: Challenges and Opportunities**  
**Alvaro Pascual-Leone**, Harvard University, Boston, USA

**18:10 Conclusions and closing remarks**

B-DEBATE IS AN INITIATIVE OF:



WITH THE COLLABORATION OF:

