

# BRAIN HEALTH

## FROM GENES TO BEHAVIOR, IMPROVING OUR LIFE

Tuesday, October, 6<sup>th</sup>, 2015

PROGRAM

9:15 **Welcome**9:30 **SESSION 1: WHAT ARE EXISTING OR NEEDED TOOLS TO BETTER UNDERSTAND HUMAN BRAIN FUNCTION?**Chair: **Montserrat Bernabeu**, Institut Guttmann, Barcelona, Spain9:40 **Genomic Analysis of Neurodegenerative Disease****John Hardy**, University College of London, London, UK10:10 **Promoting Brain Health: Characterizing and Guiding the Changing Brain Across the Lifespan****Alvaro Pascual-Leone**, Harvard University, Boston, USA10:40 **Robot Assisted Rehabilitation: the MIT Perspective****Hermano Igo Krebs**, MIT, Boston, USA11:10 **Coffee Break**11:40 **SESSION 2: WHAT DO WE NEED AND WHAT CAN WE EXPECT FROM STRUCTURAL AND FUNCTIONAL BRAIN MAPPING?**Chair: **Gerard Conesa**, Universitat de Barcelona, Barcelona, Spain11:50 **The Human Connectome: Towards Whole-Brain Modeling****Gustavo Deco**, Universitat Pompeu Fabra, Barcelona, Spain12:20 **The Human Brain Project - The Impact of Informatics on Treatment of Brain Diseases****Richard Frackowiak**, CHUV University Hospital, Switzerland12:50 **Using the Human Connectome to Understand Neurological Symptoms and Guide Treatment****Michael Fox**, Harvard University, Boston, USA13:30 **Lunch**

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- 15:00 **SESSION 3: WHAT BIOLOGICAL, PSYCHOLOGICAL AND ENVIRONMENTAL FACTORS INFLUENCE BRAIN DEVELOPMENT SINCE CHILDHOOD AND ACROSS THE LIFESPAN?**  
Chair: **Rocío Sanchez-Carrión**, Institut Guttmann, Barcelona, Spain
- 15:10 **Perceptual Foundations of Language Acquisition**  
**Janet Werker**, University of British Columbia, Vancouver, Canada
- 15:40 **Prenatal Origins of Abnormal Brain Development**  
**Elisenda Eixarch**, Universitat de Barcelona, Barcelona, Spain
- 16:10 **Coffee break**
- 16:40 **How Environment Takes Advantage of Biological Constraints to Shape Early Brain Development**  
**Ghislaine Dehaene-Lambertz**, INSERM-CEA, Paris, France
- 17:10 **Open Debate**
- 18:00 **Summary and Remarks of Day 1**

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Wednesday, October, 7<sup>th</sup>, 2015

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**9:00 SESSION 4: WHAT ARE THE RIGHT INTEGRATIVE APPROACHES TO CHARACTERIZE AND MODULATE BRAIN FUNCTION?**Chair: **Eduard Vieta**, Hospital Clínic, Barcelona, Spain**9:10 Exercising Your Mind & Brain****Arthur Kramer**, University of Illinois, Illinois, USA**9:40 Action Videogames as Exemplary Learning Tools****Daphne Bavelier**, University of Geneva, CH and University of Rochester, USA**10:10 Coffee break****10:40 The Mediterranean Diet and Improved Cognitive Outcomes: Evidence from the PREDIMED Trial****Emilio Ros**, University of Barcelona, Barcelona, Spain**11:10 Evidence-Based Brain Health Approaches in Practice: The Brain Fit Club****Bonnie Wong**, Harvard University, Massachusetts, USA**11:50 SESSION 5: WHAT ARE THE CLINICAL, PUBLIC HEALTH AND EDUCATIONAL IMPLICATIONS OF BRAIN HEALTH, PREVENTION AND LONG TERM CARE?**Chair: **Àngels Bayés**, Clínica Teknon, Barcelona, Spain**12:00 "Brain Health" in Neurodegenerative Disease****Jaime Kulisevsky**, Universitat Oberta de Catalunya, Barcelona, Spain**12:30 Coaching the Brain for Good****Margaret Moore**, MBA, Harvard University, Massachusetts, USA**13:00 Conclusions****13:30 Summary and Conclusion Remarks**

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