

BRAIN HEALTH

FROM GENES TO BEHAVIOR, IMPROVING OUR LIVES

Tuesday, October, 6th, 2015

PROGRAM

9:15 **Welcome**

9:30 **SESSION 1: WHAT ARE EXISTING OR NEEDED TOOLS TO BETTER UNDERSTAND HUMAN BRAIN FUNCTION?**

Chair: To be confirmed, Institution, Barcelona, Spain

9:40 **Genomic Analysis of Neurodegenerative Disease**

John Hardy, University College of London, London, UK

10:10 **Promoting Brain Health: Characterizing and Guiding the Changing Brain Across the Lifespan**

Alvaro Pascual-Leone, Harvard University, Boston, USA

10:40 **Robot Assisted Rehabilitation: the MIT Perspective**

Hermano Igo Krebs, MIT, Boston, USA

11:10 **Coffee Break**

11:40 **SESSION 2: WHAT DO WE NEED AND WHAT CAN WE EXPECT FROM STRUCTURAL AND FUNCTIONAL BRAIN MAPPING?**

Chair: To be confirmed, Institution, Barcelona, Spain

11:50 **The Human Connectome: Towards Whole-Brain Modeling**

Gustavo Deco, Universitat Pompeu Fabra, Barcelona, Spain

12:20 **The Human Brain Project - The Impact of Informatics on Treatment of Brain Diseases**

Richard Frackowiak, CHUV University Hospital, Switzerland

12:50 **Using the Human Connectome to Understand Neurological Symptoms and Guide Treatment**

Michael Fox, Harvard University, Boston, USA

13:30 **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: To be confirmed, Institution, 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, Geneva, Switzerland

16:10 **Coffee break**

How Environment Takes Advantage of Biological Constraints to Shape Early Brain Development

16:40 **Ghislaine Dehaene-Lambertz**, INSERM-CEA, Paris, France

17:10 **Open Debate**

18:00 **Summary and Remarks of Day 1**

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9:00 **SESSION 4: WHAT ARE THE RIGHT INTEGRATIVE APPROACHES TO CHARACTERIZE AND MODULATE BRAIN FUNCTION?**

Chair: To be confirmed, Institution, 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 Rochester, Minnesota, 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: To be confirmed, Institution, Barcelona, Spain

12:00 **Title TBC**

Jaime Kulisevski, 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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