





# HOW MIND EMERGES FROM BRAIN: A VIEW INTO THE FUTURE

**PROGRAM** 

COTXERES PALAU ROBERT. PASSEIG DE GRÀCIA, 107, BARCELONA

# Thursday, July 12th, 2012

9:15

Welcome

Miquel Martí

Director of B-Debate

Mara Dierssen

Center for Genomic Regulation

Mavi Sánchez-Vives

Institut d'Investigacions Biomèdiques August Pi i Sunyer

9:30

Early Auditory Experience Leaves an Imprint in Vocal Motor Circuits

**Richard Mooney.** Duke University, North Carolina, USA

10:10

Lose Your Inhibition: Learn More

Elly Nedivi, MIT, Cambridge, USA

10:50

Coffee Break

11:20

Complementary Learning Systems Revisited: Gene Activation and Memory Encoding in Neocortex During Hippocampus-dependent Learning

**Richard Morris,** University of Edinburgh, Edinburgh, UK

12:00

Keynote lecture: Beyond Optimality to Individual Brains

**Eve Marder,** Brandeis University, Massachusetts, USA

12:45

Open Debate Chairs: **Mara Dierssen** and **Eve Marder** 

13:30

Lunch

15:00

The Functional Scope of Single Neurons

**Gábor Tamás,** University of Szeged, Szeged, Hungary

15:4

Hypothalamic Circuit Interactions: Ready for Prime Time?

**Christian Broberger.** Karolinska Institutet. Stockholm, Sweden

16:20

Coffee Break

16:40

Theta Network Oscillations: Focus on GABAergic cells

**Marco Capogna,** MRC Anatomical Neuropharmacology Unit, Oxford, UK

17:20

Open Debate Chair: **Richard Morris** 

18:15

Transportation to CosmoCaixa

18:45

Visit to CosmoCaixa

20:00

Dinner at CosmoCaixa

22:00

Transportation to the Hotel

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Generalitat de Catalunya
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Secretaria d'Universitats i Recerca









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### 9:00

Motor Control by Sensory Cortex

Carl Petersen. EPFL, Lausanne, Switzerland

### 9:40

The Traumatized Brain: Why Do Life's Stressors Scar Some and Not Others?

**Andrew Holmes**, National Institutes of Health, USA

## 10:20

Coffee break

# 10:50

GABAergic Projecting Neurones That Reciprocally Connect the Hippocampus and Medial Entorhinal Cortex and Modulate Activty at Long Distance

**Hannah Monyer**, University Hospital in Heidelberg, Heidelberg, Germany

### 11:30

Probing the Connectivity and Function of Sensory Cells Interfacing the Spinal Circuits with Cerebrospinal Fluid

Claire Wyart, ICME, Paris, France

12:10 Keynote lecture: Trk Receptors Are Computational Sensors

Moses Chao, Skirball Institute of Biomolecular Medicine, NYU School of Medicine, NY, USA

### 13:00

Open Debate Chairs: **Moses Chao** and **Hannah Monyer** 

# 13:45

Lunch

# 15:00

Promiscuity and Discrimination in Neural Microcircuits

**Gilad Silberberg,** Karolinska Institute, Sweden

### 15:40

Coffee Break

### 16:00

Using Virtual Reality to Understand Brain Function

Mavi Sánchez-Vives, ICREA-IDIBAPS, Spain

### 16:40

The Creative Brain and Brain Machine Interfaces

**Eilon Vaadia**, Hebrew University of Jerusalem, Israel

### 17:20

Closing remarks

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