

# International Neuropsychological Symposium 2019

Vietri sul Mare, ITALY

Tuesday, June 25 – Saturday, June 29

**Lloyd's Baia Hotel, Via Enrico de Marinis, 2, 84019 Vietri sul mare SA**

## **Monday, June 24**

**18.00 – 19.00: Registration**

**19.00 – 20.00: Welcome reception at Lloyd's Baia Hotel**

## **Tuesday, June 25**

**08.50 – 09.00** Welcome – James Bisley

### **Topic 1. Perceptual and Cognitive Plasticity across the Lifespan**

Organizers: Krystel Huxlin, Concetta Morrone & Mriganka Sur

**Tuesday Morning** – Topic 1 / Session 1 – Chair: Concetta Morrone

#### **Development**

**09.00 – 10.00** **Michela Fagiolini** (Harvard University, USA)

Inhibitory processes during development and in brain disorders

**10.00 – 11.00** **John Foxe** (University of Rochester, USA)

Endophenotypic markers in childhood neuropsychiatric diseases

**11.00 – 11.30** *Coffee break*

**11.30 – 12.30** **Mriganka Sur** (Massachusetts Institute of Technology, USA)

Mechanisms of plasticity in developing brain circuits

**12.30 – 13.00** *General discussion & end of session*

**Tuesday Afternoon** – Topic 1 / Session 2 – Chair: Krystel Huxlin

#### **Spontaneous plasticity in normal and pathological states**

**16.00 – 17.00** **Duje Tadin** (University of Rochester, USA)

Visual plasticity associated with lifespan, disease and individual differences

**17.00 – 17.30** *Coffee break*

**17.30 – 18.30** **Concetta Morrone** (University of Pisa, Italy)

Neural plasticity of the visual brain in infants and in adults

**18.30 – 19.30** **Holly Bridge** (University of Oxford, UK)

Visual pathways and plasticity in adult hemianopia and anophthalmia

**19.30 – 20.00** *General discussion & end of session*

**Wednesday, June 26****Wednesday Morning** – Topic 1 / Session 3 – Chair: Mriganka Sur**Intervention-induced plasticity and broader contexts****09.00 – 10.00 Ione Fine** (University of Washington, USA)

Cortical reorganization due to blindness: does architecture determine function?

**10.00 – 11.00 Krystel Huxlin** (University of Rochester, USA)

Early versus late training-induced visual recovery in hemianopia - dynamics and limits of plasticity post-damage

**11.00 – 11.30 Group Photo and Coffee break****11.30 – 12.30 Friedhelm Hummel** (EPFL, Switzerland)

Brain stimulation to alter and study mechanisms of reorganization and recovery after focal brain lesions

**12.30 – 13.00 General discussion & end of session****Topic 2. Deep Learning and the Brain**Organizers: Simon Thorpe, David Freedman & David Plaut**Wednesday Afternoon** – Topic 2 / Session 1 – Chair: David Freedman**16.00 – 17.00 Simon Thorpe** (Brain and Cognition Research Center, France)

Deep Learning and the Brain - What's missing

**17.00 – 17.30 Coffee break****17.30 – 18.30 Talia Konkle** (Harvard University, USA)

Feature modeling across the visual cortex: insights from deep nets

**18.30 – 19.30 Niko Kriegeskorte** (Columbia University, USA)

Cognitive computational neuroscience of vision

**19.30 – 20.00 General discussion & end of session**

**Thursday, June 27**

**Thursday Morning** – Topic 2 / Session 2 – Chair: Simon Thorpe

**09.00 – 10.00 James DiCarlo** (Massachusetts Institute of Technology, USA)

Reverse engineering visual intelligence

**10.00 – 11.00 Leila Reddy** (Brain and Cognition Research Center, France)

Reconstructing faces from fMRI patterns using deep generative neural networks

**11.00 – 11.30 Coffee break**

**11.30 – 12.30 David Freedman** (University of Chicago, USA)

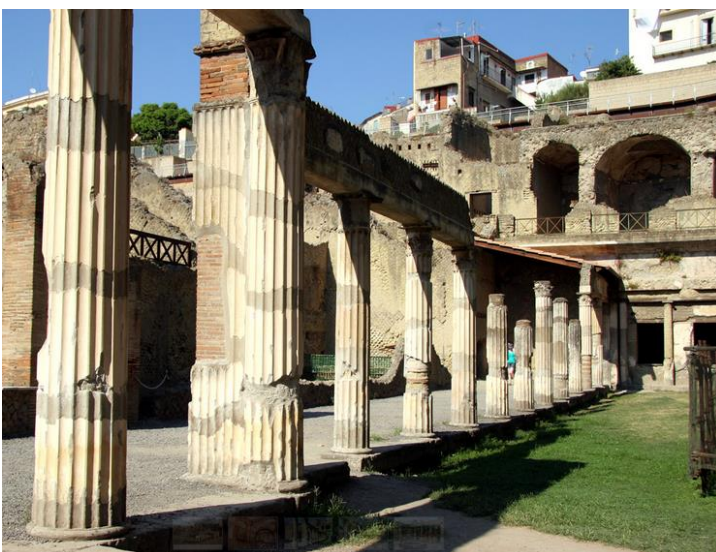
Neural circuit mechanisms of cognition in biological and artificial neural networks

**12.30 – 13.00 General discussion & end of session**

**Thursday Afternoon** – Excursion: Guided tour of Herculaneum

**14.30 – 19.15 Departure by bus from Lloyd's Baia Hotel at 14.30**

Located in the shadow of Mount Vesuvius, Herculaneum was an ancient Roman town destroyed by volcanic pyroclastic flows in 79 AD. Herculaneum is one of the few ancient cities to be preserved more or less intact, with no later accretions or modifications. Unlike Pompeii, the pyroclastic material that covered Herculaneum carbonized and thereby preserved wood in objects such as roofs, beds and doors as well as other organic-based materials such as food. Although it was smaller than Pompeii, Herculaneum was a wealthier town, possessing an extraordinary density of fine houses with, for example, far more lavish use of colored marble cladding. (Wikipedia)



**Friday, June 28****Topic 3. The Brain's Brake: Inhibitory Mechanisms in Cognition and Motor Control**

Organizers: Leonardo Chelazzi, Giuseppe Di Pellegrino & Paolo Bartolomeo

**Friday Morning** – Topic 3 / Session 1 – Chair: Leonardo Chelazzi

**09.00 – 10.00** **Alberto Bacci** (Institut du Cerveau et de la Moelle épinière, France)  
Inhibitory control of cortical microcircuits

**10.00 – 11.00** **Birte Forstmann** (University of Amsterdam, Netherlands)  
The anatomo-functional role of the subthalamic nucleus in strategic decision-making

**11.00 – 11.30** *Coffee break*

**11.30 – 12.30** **Nico Boehler** (Ghent University, Belgium)  
A wider view on response inhibition: attention, motivation, and trigger failures

**12.30 – 13.00** *General discussion & end of session*

**Friday Afternoon** – Topic 3 / Session 2 – Chair: Giuseppe Di Pellegrino

**16.00 – 17.00** **Ruth Krebs** (Ghent University, Belgium)  
Should I stay or should I go: Exploring reward-triggered response biases

**17.00 – 18.00** **Antonino Vallesi** (University of Padova, Italy)  
Hemispheric gradients of executive functioning beyond cognitive inhibition

**18.00 – 18.30** *Coffee break*

**18.30 – 20.00** *Business meeting*

**Friday Evening** – Social Dinner

**20.30** *Dinner at Lloyd's Baia Hotel*

Details will be provided at the meeting

**Saturday, June 29****Saturday Morning** – Topic 3 / Session 3 – Chair: Paolo Bartolomeo**09.00 – 10.00 Joy Geng** (University of California, Davis, USA)

Active and passive sources of information in distractor ignoring

**10.00 – 11.00 Michael Anderson** (University of Cambridge, UK)

A supramodal inhibitory control mechanism underlies the stopping of actions and thoughts

**11.00 – 11.30 Coffee break****11.30 – 12.30 Marie Banich** (University of Colorado at Boulder, USA)

Inhibitory control over information in working memory

**12.30 – 13.00 General discussion & end of session**