Session 1: Homeostasis: from the neuron to the brain

Chairs: John Rothwell + Paolo Calabresi

8:30 -9:15 lecture 1 (35'+10' discussion) The molecular bases of the homeostatic plasticity control. Dick Tsien

9:15-10:00 lecture 2 (35'+10' discussion) Beyond Neurons: Immune (glymphatic?) system and synaptic plasticity. Diego Centonze

10:00-10:45 lecture 3 (35'+10' discussion) *Tracing plasticity in the human motor cortex: use-dependency and homeostasis;* Hartwig Siebner

10:45-11:15 break

11:15-12:05 lecture 4: (40'+10' discussion) Sleep and Homeostasis; Chiara Cirelli

12:05-12:15 Comments from the Chairs (2 slides each)

12:15-12:45 general discussion

12:45-14:45 Lunch and Poster session 1,

Chairs: Paolo Girlanda, Daniele Volpe, Antonio Mantovani

Session 2: Frontiers in Neuro-Rehabilitation

Chairs: Giovanni Abbruzzese + Giuseppe Frazzitta

14:45-15:30 lecture 1 (35'+10' discussion) Early rehabilitation in stroke? Ralph Nudo

15:30-16:15 lecture 2 (35'+10' discussion) Effects of transspinal direct stimulation on sensorimotor plasticity. Jack Martin

16:15-17:00 lecture 3 (35'+10' discussion) *Effects of Reward on Brain Plasticity: Implications for Rehabilitation.* Leo Cohen

17:00-17:30 break

17:30-18:30 lecture 4 (40'+10' discussion) Genetics, plasticity and Rehabilitation. Nir Giladi

18:20-18:30 Comments from the Chairs (2 slides each)

18:30-19:00 Discussion

19:00-19:15 Paolo Fresco Remarks

19:15-20.15 Cocktail

September 13, 2016

Session 3: Brain oscillations and plasticity

Chairs: Paolo Manganotti +Simone Rossi

8:30 -9:15 lecture 1 (35'+10' discussion) *TEP: principles and clinical applications.* Marcello Massimini

9:15-10:00 lecture 2 (35'+10' discussion) Detection and classification by advanced EEG analyses in neuropsychiatric disorders. Nathan Intrator

10:00-10:45 lecture 3 (35'+10' discussion) Brain connectivity analyses with EEG: Techniques and Clinical Applications. Paolo Rossini

10:45-11:10 break

11:10-12:00 lecture 4 (40'+10' discussion) Closed loop stimulation: a future approach to neurological disorders. Ulf Zieman

12:00-12:10 Comments from the Chairs (2 slides each)

12:10-12:40 general discussion

12:40-14:45 Lunch and Poster session 2

Chairs: Paolo Girlanda, Emiliano Ricciardi, Lucio Marinelli

Session 4: Brain oscillations in Neurological Disorders

Chairs: Ioannis Isaias, Enzo DiLazzaro

14:45-15:30 lecture 1 (35'+10' discussion) Movement inhibition and prefrontal modulation of beta oscillations. Giacomo Koch

15:30-16:15 lecture 2 (35'+10' discussion) What we have learned about dystonia from oscillatory activity in basal ganglia. Wolf-Julian Neumann

16:15-17:00 lecture 3 (35'+10' discussion) What we have learned about Parkinson's disease from oscillatory activity in basal ganglia. Guglielmo Foffani

17:00-17:30 break

17:30-18:30 main lecture (40'+10' discussion) Transcranial alternating current stimulation: an

appealing tool to modulate brain oscillations. Simone Rossi

18:20-18:30 Comments from the Chairs (2 slides each)

18:30-19:00 Discussion

19:00-19:30 What's in the pipeline? Highlights from the posters; Paolo Girlanda, Daniele Volpe, Lucio Marinelli, Antonio Mantovani, Emiliano Ricciardi

September 14, 2016

Session 5: Functional plasticity in Neuropsychiatry (and beyond)

Chairs: Mark George + Walter Paulus

8:30 -9:15 lecture 1 (35'+10' discussion) *Impulse control disorders and plasticity*. Pietro Pietrini 9:15-10:00 lecture 2 (35'+10' discussion) *To sleep, per chance to dream*. Giulio Tononi 10:00-10:45 lecture 3 (35'+10' discussion) *Modulation of gamma activity and conscious awareness in dreams*. MA Nitsche

10:45-11:10 break

11:10-12:00 lecture 4 (40'+10' discussion) *Memory formation: from physiology to pathology.* Cristina Alberini

12:00-12:10 Comments from the Chairs (2 slides each)

12:10-12:35 Discussion

12:35-13:00 Summary & Concluding remarks Mark Hallett