The Fresco Conference
4th International Workshop on Synaptic Plasticity:

“from bench to bedside”

12 - 14 September 2016
Lucca, Italy
Session 1
Homeostasis: from the neuron to the brain
Chairs: J. Rothwell, P. Calabresi
8:30-9:15 lecture 1
Molecular mechanisms for homeostatic regulation of synaptic strength; D. Tsien
9:15-10:00 lecture 2
Beyond Neurons: Immune (lymphatic?) system and synaptic plasticity; D. Gentonze
10:00-10:45 lecture 3
Tracing plasticity in the human motor cortex: use-dependency and homeostasis; H. Stiebner
10:45-11:15 Break
11:15-12:05 lecture 4
Sleep and Synaptic Homeostasis; C. Cirelli
12:05-12:15 Comments from the Chairs
12:15-12:45 General discussion
12:45-14:45 Lunch and Poster session 1
Chairs: D. Volpe, A. Mantovani

Session 2
Frontiers in Neuro-Rehabilitation
Chairs: G. Abbruzzese, G. Frazzitta
14:45-15:30 lecture 1
Early rehabilitation in stroke? R. Nudo
15:30-16:15 lecture 2
Modulating Neural Activity to Promote Corticospinal Tract Axonal Outgrowth and Motor Function after Injury; J. Martin
16:15-17:00 lecture 3
Effects of Reward on Brain Plasticity: Implications for Rehabilitation. L. Cohen
17:00-17:30 Break
17:30-18:30 lecture 4
Genetics, plasticity and Rehabilitation. N. Giladi
18:20-18:30 Comments from the Chairs
18:30-19:00 Discussion
19:00-19:15 Paolo Fresco Remarks
19:15-20:15 Cocktail

Session 3
Brain oscillations and plasticity
Chairs: P. Manganotti, S. Rossi
8:30-9:15 Lecture 1
TEP: principles and clinical applications; M. Massimini
9:15-10:00 Lecture 2
Detection and classification by advanced EEG analyses in neuropsychiatric disorders; N. Iritano
10:00-10:45 Lecture 3
Brain connectivity analyses with EEG: Techniques and Clinical Applications; P. Rossi
10:45-11:10 Break
11:10-12:00 Lecture 4
Closed loop stimulation: a future approach to neurological disorders; U. Ziemann
12:00-12:10 Comments from the Chairs
12:10-12:40 General discussion
12:40-14:45 Lunch and Poster session 2
Chairs: E. Ricciardi, L. Marinelli

Session 4
Brain oscillations in Neurological Disorders
Chairs: E. Isaias, E. Di Lazzaro
14:45-15:30 Lecture 1
Alzheimer’s disease as a disorder of cortical plasticity; G. Koch
15:30-16:15 Lecture 2
What we have learned about dystonia from oscillatory activity in basal ganglia. E. Neumann
16:15-17:00 Lecture 3
From oscillations to plasticity and beyond: a cortical theory of Parkinson’s disease; G. Foffani
17:00-17:30 Break
17:30-18:30 Main Lecture
Transcranial alternating stimulation, brain oscillations and cognitive functions; S. Rossi
18:20-18:30 Comments from the Chairs
18:30-19:00 Discussion
19:00-19:30 What’s in the pipeline? Highlights from the posters; D. Volpe, L. Marinelli
A. Mantovani, E. Ricciardi