

Sept. 20, 2012

8h:45 – 09:00 *Guillaume Masson*, director of the INT: Welcome Address

Session 1: Dynamics of Motor Control - chair: Alexa Riehle (INT)

09:00 – 09:20 INT speaker: *Laurent Vinay*

09:20 – 10:00 *Sten Grillner (Karolinska, Stockholm, Sweden)*: The computational logics of networks in motion – from ion channels to behavior

10:00 – 10:40 *Jörn Diedrichsen (ICN/UCL, London, UK)*: Optimal encoding of motor skills in cortical networks

10:40 – 11:10 coffee break & posters

11:10 – 11:50 *Eberhard Fetz (U Washington, Seattle, USA)*: Bidirectional interactions between the brain and implantable computers

11:50 – 12:30 *Nicholas Hatsopoulos (U Chicago, USA)*: Spatio-temporal spike patterning in motor cortex

12:30 – 14:30 lunch & posters

Session 2: Emotion and Motivation - chair: Thierry Chaminade (INT)

14:30 – 14:50 INT speaker: *Christelle Baunez*

14:50 – 15:30 *Ann Graybiel (McGovern Inst. Brain Research, MIT, Cambridge, MA, USA)*: The fate of valued behaviors: It's all in brain dynamics

15:30 – 16:10 *Trevor Robbins (Cambridge, UK)*: Fractionating impulsivity: Neuropsychiatric implications

16:10 – 16:40 coffee break & posters

16:40 – 17:20 *Claus Lamm (Univ. Vienna, Austria)*: Using a multi-modal neuroimaging approach to unravel the versatile social brain

17:20 – 18:00 *Luc Mallet (ICM, Paris, France)*: Bridging the gap between physio- and psychopathology: the example of DBS in Human-Repetitive Behaviors

18:30 wine & cheese & posters

Sept. 21, 2012

Session 3: From Retina to Perception - chair: Laurent Goffart (INT)

09:00 – 09:20 INT speaker: *Frédéric Chavane*

09:20 – 10:00 *Avinoam B. Safran (Institut de la Vision, Paris)*: Cerebral reorganization following retinal alteration in adults. Perceptual implications

10:00 – 10:40 *John Maunsell (Harvard Medical School, Boston, MA, USA)*: Attention, perception,

and the representations of visual stimuli by neuronal populations

10:40 – 11:10 coffee break & posters

11:10 – 11:50 Patrick Cavanagh (Paris Descartes, France): Coding perceived position on saccade maps

11:50 – 12:30 Moshe Bar (Bar Ilan, Ramat Gan, Israel): The proactive brain: predictions in visual cognition

12:30 – 14:30 lunch & posters

Session 4: New Advances in Brain Imaging at Multiple Scales - chair: H  l  ne Bras (INT)

14:30 – 14:50 INT speaker: Ivo Vanzetta

14:50 – 15:30 Nikos Logothetis (MPI T  bingen, Germany): In vivo connectivity: paramagnetic tracers, electrical stimulation & neural-event triggered fMRI

15:30 – 16:10 Ilka Diester (ESI, Frankfurt, Germany): Investigating neural circuits with optogenetics in rodents and primates

16:10 – 16:40 coffee break & posters

16:40 – 17:20 Serge Charpak (Paris Descartes, France): Imaging brain activity from capillaries

17:20 – 18:00 Giampietro Schiavo (Cancer Research UK, LRI, London, UK): Axonal transport: a process for all seasons

18:30 Farewell Ap  ritif

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Organizing Committee:

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