3rd BRAHE-meeting, October 22, 2014 at 12:00 - 18:00

Biomedicum Helsinki, Lecture room 1, Haartmaninkatu 8, Helsinki

12:15 - 12:20 Opening of the meeting, Synnöve Carlson

12:20 - 13:35 Research Infrastructures at AU, UH and HUCH (13 + 2 min each) Chair: Synnöve Carlson
   12:35 - 12:50 Veikko Jousmäki (AU): Aalto NeuroImaging (ANI) Infrastructure
   12:50 - 13:05 Jyrki Mäkelä (HUCH): Research Infrastructures at HUCH
   13:05 - 13:20 Leonard Khirug (UH): Two-Photon Microscopy in awake rodents at the Viikki Campus

13:35 - 14:15 Science at AU, UH and HUCH (13 + 2 min)
   13:35 – 13:50 Simo Monto (UH, AU BRAHE postdoc): Behavioral relevance of working memory networks is revealed by MEG-guided TMS
   13:50 - 14:15 Snapshots (One slide/researcher/2 min + 2 min questions)
   Venkat Swaroop Achuta (UH): Defects of glutamate signaling during differentiation of neural progenitors lacking fragile X mental retardation protein
   Tage Orenius (ORTON, UTU, AU): Interaction of pain and affect in the neural pain matrix
   Eeva Parkkonen (AU): Dynamics of ~20-Hz motor-cortex oscillations in stroke recovery
   Tomi Rantamäki (UH): Insights into the antidepressant mechanisms of isoflurane anesthesia
   Patricia Seja (UH): Functional analysis of a single amino acid variant of KCC2 from patients with febrile seizures
   Sari Ylinen (UH): Predictive coding mediates word recognition and learning in 12- and 24-month-old children

14:15 - 15:15 Poster Session 1 + coffee (60 min)

15:15 - 16:45 Science at AU, UH and HUCH (13 + 2 min each) Chair: Eero Castren
   15:15 - 15:30 Hanna Renvall (AU): Attention to speech sounds within auditory scenes modifies temporal auditory cortical activity
   15:30 – 15:45 Mathieu Bourguignon (AU): Corticokinematic coherence mainly reflects movement-induced proprioceptive feedback
   15:45 – 16:00 Pirta Hotulainen (UH): Regulation of the actin cytoskeleton in dendritic spine morphogenesis
   16:00 – 16:15 Manuel Eugster (AU): Predicting term-relevance from brain signals
   16:15 – 16:30 Koos Zevenhoven (AU): Novel methods for improving source localization using hybrid ultra-low-field MRI and MEG
   16:30 – 16:45 Mikhail Yuryev (UH): Laser-induced ATP dependent cortical calcium waves in E13-E15 mouse embryos ex utero

16:45 - 17:15 Poster Session 2 + snacks (30 min)

17:15 -18:00 Plenary lecture (40 + 5 min) Chair: Mikko Sams
   Petri Ala-Laurila (UH): Vision at its ultimate limits: optimal strategies of neural computation