



BRAHE Meeting
March 9th, 2012
Biomedicum Helsinki



BRAHE -meeting

Time: March 9th, 2012, at 13:00 – 20:00 o'clock

Place: Biomedicum Helsinki 1, Haartmaninkatu 8, Lecture room 1

Modern neuroscience uses increasingly sophisticated methods of research and data analysis that require expertise from many different fields of science. An intense collaboration between the Aalto University and University of Helsinki in the field of neuroscience promotes successful application of cutting-edge technology to answer significant research questions and can thus markedly strengthen the world-wide impact and visibility of Finnish neuroscience.

The BRAHE (Brain research at Aalto University and University of Helsinki) consortium supports and develops neuroscience collaboration between the two universities. The executive board of BRAHE, together with the Doctoral Program Brain & Mind, will organize the first BRAHE -meeting in Biomedicum Helsinki 1 on March 9th, 2012. The purpose of the meeting is to bring together neuroscientists from the Aalto University and University of Helsinki to present and discuss their most recent research in the field of neuroscience.

Please register by February 24th, 2012 using the following e-mail address:
katri.wegelius@helsinki.fi



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13.00-13.05 Opening of the meeting, Synnöve Carlson

13.05-14:35 Collaborative brain research projects In Aalto University (AU) and University of Helsinki (UH) (10 + 5 min)

Chair: Synnöve Carlson

- 1. Kristina Laaksonen AU/UH:** Effect of afferent input on motor cortex excitability during stroke recovery
- 2. Juha Salmitaival AU/UH:** Brain function in Asperger syndrome during natural viewing
- 3. Hanna Renvall AU/UH:** Human auditory cortical activation is regulated by the TRAPPC9 and ROBO1 genes
- 4. Satu Lamminmäki AU/UH:** Human ROBO1 regulates interaural interaction in auditory pathways
- 5. Jessica Guzman-Lopez UH/AU:** State-dependent TMS effects in the visual cortex after visual adaptation: a combined TMS-EEG study
- 6. Andrey Zhdanov AU/UH:** Multi-channel system for combined magnetoencephalography and ultra-low-field MRI

14.35 -15.00 Coffee

15.00-16.30 Examples of brain research projects at AU and UH (10 + 5 min)

Chair: Mikko Sams

- 1. Leonard Khirug UH:** Advancing neuroscience from reduced preparations towards in vivo two-photon microscopy in anesthetized or awake rodents
- 2. Petri Ala-Laurila UH:** Nonlinear integration of sparse signals in the inner retina sets the absolute limit of vision
- 3. Lauri Nurminen AU:** Bridging the gap between single neurons and perception: contextual modulation in primary visual cortex and human perception
- 4. Satu/Matias Palva UH:** Inter-areal synchronization and local neuronal dynamics support cognitive states in the human brain
- 5. Elvira Brattico UH:** Musical expertise shaping auditory-limbic connectivity
- 6. Enrico Glerean AU:** fMRI phase synchronization as a measure of dynamic functional connectivity

16.30 – 17.45 Poster session

18.00 – 20.00 Yleisötilaisuus ”Aivotutkimus vauhdissa!” (30 + 10 min)

Puheenjohtaja: Kimmo Alho

18.00 - 18.30 Matti Haltia UH: Hermoston tutkimusta Aristoteleesta Alzheimeriin

18.40 - 19.10 Eero Castrén UH: Muovautuvat aivot

19.20 - 19.50 Riitta Hari AU: Mitä aivokuvantaminen kertoo aivoista ja mielestä