workshop

for transcranial magnetic stimulation (TMS) in brain research

27.5.2011
Jyväskylä

INTERBRAIN

UNIVERSITY ALLIANCE FINLAND

Workshop for transcranial magnetic stimulation (TMS) in brain research

27.5.2011 Hippos auditorium, Jyväskylä

Program

9.30-10.00 Registration and coffee

10.00-10.30 **Principles of TMS**
Petro Julkunen, PhD
Department of Clinical Neurophysiology, Kuopio University Hospital, Finland

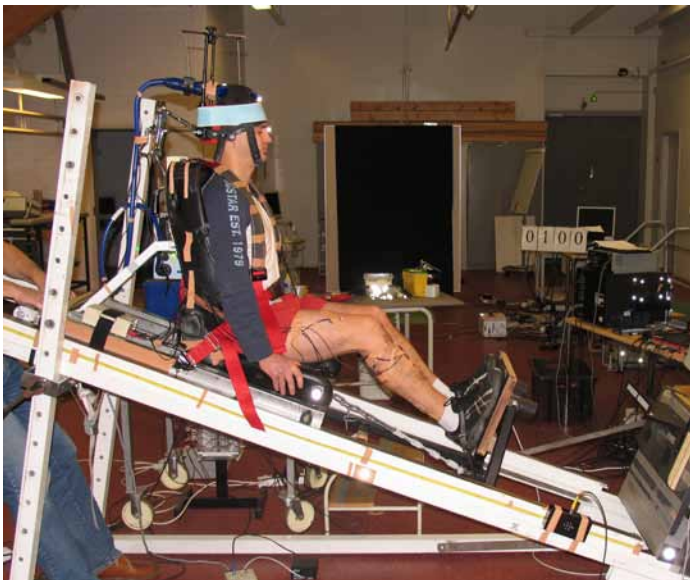
10.30-11.30 **Modulation of motor learning in health and after cerebral stroke**
Ulf Ziemann, MD
Department of Neurology, Johann Wolfgang Goethe University of Frankfurt, Germany

Introduction for demos:

11.30-11.45 **1. Can interventional paired associative stimulation modify muscle fatigue resistance during sustained isometric maximal voluntary contraction?**
Janne Avela, PhD
NMRC, Department of Biology of Physical Activity, University of Jyväskylä, Finland

11.45-12.00 **2. Repetitive TMS in leg motor cortex in stroke**
Sinikka Peurala, PhD
GT, Department of Health Sciences, University of Jyväskylä, Finland

12.00-13.00 Lunch (at your own expense)



13.00-14.30 Demos of PAS and rTMS, Laboratory of the Department of Biology of Physical Activity

14.30-14.50 Jukka Kinnunen, MSc
Mega Electronics Ltd, Kuopio, Finland

14.50-15.10 **Locating speech areas in posterior frontal lobe by navigated rTMS**
Laura Säisänen, MSc
Department of Clinical Neurophysiology, Kuopio University Hospital, Finland

15.10-15.30 **Probing modifications of cortical excitability during stroke recovery with navigated TMS**
Pantelis Lioumis, MSc
BioMag Laboratory, HUSLAB, Helsinki University Central Hospital, Finland

15.30-15.50 **Locating motor cortex with navigated TMS: correlation with other localizing methods**
Anne-Mari Vitikainen, MSc
Department of Neurophysiology, HUSLAB, Helsinki University Central Hospital, Finland

15.50-16.15 Coffee

16.15-16.30 **Repeatability of the effects of interventional paired associative stimulation on soleus muscle motor excitability**
Susanne Kumpulainen, MSc
SMI, Department of Health Science and Technology, Aalborg University, Denmark

16.30-17.15 **The potential of imagination: Precise temporal association between cortical potentials and afference induces cortical plasticity**
Natalie Mrachacz-Kersting, PhD
SMI, Department of Health Science and Technology, Aalborg University, Denmark

17.15-17.45 **Assessing neuroplasticity with TMS and other imaging methods**
Ina M. Tarkka, PhD
Department of Health Sciences, University of Jyväskylä, Finland

Seminar buffet follows immediately next door to the auditorium

meganeuro

More information and registration: research.jyu.fi/interbrain/
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