

Helsinki TMS Hub Kickoff

Understanding and repairing complex neuropathologies with transcranial magnetic stimulation (TMS)

Online mini-conference

Date: Thursday 10th of September 2020, 9.00 – 12.00

Organizations: BioMag Laboratory, Helsinki University Hospital (HUH) in collaboration with the

University of Helsinki and Aalto University

Welcome to the Helsinki TMS Hub Kickoff and mini-conference aiming to increase awareness about the latest advances in the field of transcranial magnetic stimulation (TMS), to boost collaboration between scientists and health care professionals working with TMS and foster translation of technological and methodological innovations into effective clinical applications.

TMS is a unique noninvasive neuromodulation method to probe and repair the brain function. TMS has shown diagnostic and therapeutic potential in a wide variety of disease states in neurology and psychiatry. Multi-locus TMS, studies of TMS-induced neuroplasticity and advanced combinations of TMS with neuroimaging and electrophysiology will shape our understanding of cortical networks and define the future treatments of complex neuropathologies.

Helsinki TMS Hub is an interdisciplinary collaborative project between Helsinki University Hospital, the University of Helsinki, and Aalto University. Helsinki TMS Hub aims to provide infrastructure and support for researchers and research groups as well as organizes TMS courses and events. BioMag Laboratory HUH is the TMS Hub's core facility. The project is funded by the Helsinki Network Brain and Mind's Grand Challenge program.

Preliminary Program

9.00 - 9.10	Welcome and Opening remarks
	Docent Hanna Renvall, Head of BioMag Laboratory, HUH
9.10 – 9.20	Helsinki TMS Hub: an overview
	Dr. Andrei Rodionov , Scientific Coordinator, Helsinki TMS Hub
Mini-lectures	
9.20 - 9.40	TBA
	Professor Risto Ilmoniemi , Head of Department of Neuroscience and Biomedical Engineering, Aalto University
9.40 – 10.00	Functional network models for relevant and reliable TMS targeting
	Docent Tuukka Raij, HUS/HYKS psychiatry
10.00 - 10.20	rTMS in neuropathic pain – HUH experiences
	Dr. Selja Vaalto , Department of Clinical Neurophysiology, HUH

10.20 - 10.40	Made in BioMag: from TMS-EEG to cortical mapping and rehabilitation approaches
	Dr. Pantelis Lioumis , Department of Neuroscience and Biomedical Engineering, Aalto University
10.40 – 11.00	Paired associative stimulation for spinal cord injury patients: success stories and future directions
	Dr. Anastasia Shulga , BioMag Laboratory, HUH, Clinical Neurosciences, Neurology, HUH
11.00 – 11.10	Online coffee break
11.00 - 11.10	Online coffee break Virtual round table: Translation of TMS research and technological innovation into clinical practice
	Virtual round table: Translation of TMS research and
11.10 – 11.50	Virtual round table: Translation of TMS research and technological innovation into clinical practice Moderator: Docent Hanna Renvall, Head of BioMag

The Helsinki TMS Hub Kickoff and mini-conference is an online meeting organized via Zoom video conferencing service due to the Coronavirus situation. Participation is free of charge, but registration is compulsory. After the registration participants will receive a confirmation letter by email including a link to online meeting room.

Registration:

https://elomake.helsinki.fi/lomakkeet/106273/lomake.html Keep informed at www.biomag.hus.fi









Contact organizers:

andrei.rodionov@tmshub.fi

Dr. Andrei Rodionov PhD (Neurology) Helsinki TMS Hub BioMag Laboratory, Helsinki University Hospital