

JUHA E JÄÄSKELÄINEN

Citizen of Finland

Home address: Päivärinteentie 7 as 1, 70 300 Kuopio, Finland

+358 44 717 4660 juha.e.jaaskelainen@kuh.fi

Present positions www.kuopioneurosurgery.fi

Professor of Neurosurgery / UEF University of Eastern Finland 2004 –

Chairman of Neurosurgery / KUH NeuroCenter / Kuopio University Hospital 2004 –

Director of KUH Neuro-Oncology Group

Education

MD 1977 / Medical School / Kuopio University / Finland

Neurosurgeon 1985 / Neurosurgery / Helsinki University Hospital / Finland

PhD 1986 and Docent of Neurosurgery 1995 / Helsinki University

Visiting Professor 2001–2 / Neurosurgery / Brigham & Women's Hospital / Harvard Medical School

Present scientific positions of trust

Cancer Society of Finland / Chairman of Clinical Research Grant Evaluation Committee 2011 –

Scandinavian Neurosurgical Society / Member of Resident Training Committee 2003 –

EANS European Association of Neurosurgical Societies

* Member of Research Committee 2003 – / Lecturer in Training Courses for residents

Acta Neurochirurgica (EANS journal) / Editorial board member 2009 –

Research and development / UEF University of Eastern Finland 2004 –

Kuopio Intracranial Aneurysm Research Group www.uef.fi/ns / Finnish Academy Funding 2008-

Kuopio NPH and Early Alzheimer Disease Group www.uef.fi/nph

Development of pre / intraoperative brain mapping integrated to operation microscope

* Collaboration with NexStim www.nexstim.com

Development of advanced optics for neurosurgical operation microscope

* Medi-Imaging Project with UEF Optics www.medi-imaging.org 2010 –

* collaboration with Zeiss / leading manufacturer of operation microscopes

Supervision of PhD theses

6 completed – 11 in progress

Scientific original articles in international peer-reviewed journals (H index = 36)

130 in total – 71 on neuro-oncology – 15 on microneurosurgical operation techniques

Advisor in medical technology industry

Elekta Neuromag (former Neuromag), Helsinki

* neurosurgical applications of magnetoencephalography (MEG)

NexStim, Helsinki www.nexstim.com (contact Henri Hannula)

* neurosurgical applications of navigated transcranial brain stimulation (NBS)

5 most relevant articles related to the present project

130. Antikainen J, von und zu Fraunberg M, Orava J, **Jääskeläinen JE**, Hauta-Kasari M. Spectral Imaging of Neurosurgical Target Tissues Through Operation Microscope. *Optical Review* 2011;18: 458-461

111. Säisänen L ... **Jääskeläinen JE**, Mervaala E. Non-invasive preoperative localization of primary motor cortex in epilepsy surgery by navigated transcranial magnetic stimulation. *Epilepsy Res* 2010;92:134-44

95. Hernesniemi J ... **Jääskeläinen JE**. Microneurosurgical management of anterior communicating artery aneurysms. *Surg Neurol* 2008;70:8-28

79. Korvenoja A ... **Jääskeläinen JE** ... Seppä M. Sensorimotor cortex localization: comparison of magnetoencephalography, functional MR imaging, and intraoperative cortical mapping. *Radiology* 2006;241:213-22

74. Hernesniemi J ... **Jääskeläinen JE**. Some collected principles of microneurosurgery: simple and fast, while preserving normal anatomy: a review. *Surg Neurol* 2005;64:195-200