

8th ISMRM Nordic Chapter Annual meeting
August 22-23, 2024, Turku, Finland

MRI - From Research to Clinical Use

All sessions are in Medisiina D building of University of Turku located just next to Turku University Hospital

Thursday 22.8.

13:00	Session 1: Advances in clinical Neuro MRI	Jani Saunavaara & Leif Östergård
13:00	Opening words	Jani Saunavaara
13:10	Emerging imaging techniques (Combined TMS, EEG, MRI)	Joonas Laurinoja, Kuopio, FI
13:35	skiftiTools: An R package for visualizing and manipulating skeletonized brain diffusion tensor imaging data for versatile statistics of choice	Harri Merisaari, Turku, FI
13:45	MRI and Beyond	Vesa Vaajamäki, GE
14:00	Advanced neuroimaging techniques in clinical use	Jussi Hirvonen, University of Tampere, FI
14:25	<i>What would clinicians need?</i>	
14:30	<i>Coffee break</i>	
15:00	Session 2: Hot Topics in MRI	Emil Ljungberg & Faisal Mahmood
15:00	MRI safety	Lars Hanson, DRCMR/DTU, DK
15:25	Deep Resolve/AI	Nicholas Behl, Siemens
15:50	Deep learning in diffusion modelling and reconstruction: application to intravoxel incoherent motion	Peter While, St. Olav's Hospital, NOR
16:15	Imaging the 3D Structure of Sinoatrial Node Using Rotating Frame Relaxation Maps in the Swine Heart	Yi Li, Oulu, FI
16:25	Zero echo time imaging for preclinical fMRI studies	Ekaterina Paasonen, Kuopio, FI
16:35	Power pitch session: (3 minute presentations) <i>Seyed Amir Mirmojarabian, Rui Jian Chu, Elmo Pulli, Ville Iso-Kouvola</i>	
16:55	Instructions for the Session 3 and the Dinner	Jani Saunavaara
17:00	Session 3: Poster session, sponsor exhibition, and snacks + Optional University hospital tours	
19:30	<i>Social Dinner at Sokos Hotel Kupittaa Restaurant</i>	Sokos Hotel Kupittaa



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Friday 23.8.

9:15	Session 4: Use of MRI in new treatments	Vanessa Wiggermann & Fredrik Jäderling
9:15	MRI Guided Focused Ultrasound	Teija Sainio, Turku University Hospital, FIN
9:40	MR - LINAC/ RT	Faisal Mahmood, Odense University Hospital, DK
10:05	Bone density prediction from any head MRI	Björn Siquurdsson, Lyngby, DK
10:15	Time-dependent diffusion MRI as a potential quantitative imaging biomarker for radiotherapy	Minea Jokivuolle, Odense, DK
10:25	Coffee break	
10:55	Session 5: MRI and Cancer	Kine Mari Bakke & Lars Hanson
10:55	Use of perfusion MRI	Leif Östergård, CFIN, DK
11:20	Gradients, Diffusion and Cancer	Maysam Jafar, Philips
11:45	Fast protocols for prostate MRI	Fredrik Jäderling, Karolinska, SE
12:10	A Novel DWI Modelling Based on Information Theory and Its Radiomics With Application in Prostate Cancer Detection	Rui Jian Chu, Turku, FI
12:20	Cross-Vendor Reproducibility of Machine-Learning Models in Radiomics based Prostate MRI Analysis	Jatin Chaudhary, Turku, FI
12:30- 12:35	Closing remarks & Lunch	

Accepted abstracts (random order)

skiftiTools: An R package for visualizing and manipulating skeletonized brain diffusion tensor imaging data for versatile statistics of choice	Harri Merisaari, Turku, FI
Narrowband fMRI BOLD signal entropy predicts neonatal age	Ilkka Suuronen, Turku, FI
Zero echo time imaging for preclinical fMRI studies	Ekaterina Paasonen, Kuopio, FI
Radiomics-optimized MRI: Evaluation of keyhole technique to prostate cancer DWI	Rui Jian Chu, Turku, FI
Relaxation along fictitious field to identify myocardial infarction at 3T – A case-control segment-wise study	Seyed Amir Mirmojarabian, Oulu, FI
Machine Learning Assisted Prediction of Cartilage Proteoglycan Content Using MR Fingerprinting	Ville Kantola, Oulu, FI



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Bone density prediction from any head MRI	Björn Siquardsson, Lyngby, DK
Repeatability and reproducibility evaluations of structural brain MRI with super resolution (SR) imaging: Preliminary results in sub-millimeter 3T	Ekaterina Saukko, Turku, FI
Time-dependent diffusion MRI as a potential quantitative imaging biomarker for radiotherapy	Minea Jokivuolle, Odense, DK
A Novel DWI Modelling Based on Information Theory and Its Radiomics With Application in Prostate Cancer Detection	Rui Jian Chu, Turku, FI
Cross-Vendor Reproducibility of Machine-Learning Models in Radiomics based Prostate MRI Analysis	Jatin Chaudhary, Turku, FI
Reproducibility of ADC measurements of prostate DWI sequences between MRI scanners	Ville Iso-Kouvola, Turku, FI
Neonatal White Matter Microstructure Predicts Attention Disengagement from Fearful Faces at 8 months	Hilyatushalihah K. Audah Turku, FI
Maternal per-fluoroalkyl substances during pregnancy are associated with multimodal brain structural outcomes in 5-year-old children: A study from the FinnBrain Birth Cohort.	Aaron Barron, Turku, FI
A Semi-Automatic Abdominal Adipose Tissue and Muscle Segmentation on Dixon MRI in Ten Stages	Rui Jian Chu, Turku, FI
Title: The role of the mean diffusivity of the amygdala in the perception of emotional faces in 8 months old infants	Nilofaar Hashempour, Turku, FI
Imaging the 3D Structure of Sinoatrial Node Using Rotating Frame Relaxation Maps in the Swine Heart	Yi Li, Oulu, FI
Examining speech disfluency through the analysis of grey matter densities in 5-year-olds using voxel-based morphometry	Ashmeet Jolly, Turku, FI
Exploring the Influence of Maternal Prenatal Depressive Symptoms and Hair Cortisol Concentration on Infant Corpus Callosum Integrity the perception of emotional faces in 8 months old infants	Mariani Wigley Isabella L.C Turku, FI
Exposure to Maternal Pre and Postnatal Psychological Distress: Effects on Brain Structure in 5 year old Children	Elmo P. Pulli, Turku, FI



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