

Czech - Austrian Magnetic Resonance Workshop 2019

September 18 - 20, 2019

Frein an der Mürz, Austria



Organizers: Daniel Jiráček (IKEM), Martin Krššák (MUW)

Venue: Freinerhof, 8694 Frein an der Mürz Nr.2, Austria

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Wednesday, Sept 18, 2019

14:45 Coffee starter

15:15 Welcome

15:30 – 17:30 Scientific session 1

Reiter Ursula / Reiter Gert (Graz) Current Trends in Cardiac MR (25 + 5 min)

Kräuter Corina (Graz) Extraction of the mitral valve vortex ring from 4D flow MRI (12 + 3 min)

Albrecht Ingo Schmid (Wien) Cardiac MRS development for/at 7T (12 + 3 min)

Körner Tito (Wien) Real-time respiratory motion correction and phantom development at 7T (12 + 3 min)

Jiráček Daniel (Prague) Injectable fluorinated polymer implants as ^{19}F MR probe with tunable biodegradability (12 + 3 min)

Jiřík Radovan (Brno) Small-animal DCE-MRI using golden-angle compressed-sensing techniques (12 + 3 min)

19:30 - ... Late Evening session / News from the World

Vojtíšek Lubomír / Kudlička Petr (Brno) Introduction of MAFIL (Multimodal and Functional Imaging Laboratory) - Overview of realized projects and tasks

Hájek Milan (Prague) New equipment in Prague: VIDA & mq-Profiler



Thursday, Sept 19, 2019

8:45 - 10:30 Scientific session 2

Groeger Adriane (Siemens Healthineers; Erlangen) Actual possibilities for spectral evaluation at Siemens systems (20 min)

Pšorn Tomáš (Brno) py-bruker: Towards Conscious Bruker Data Representation and Manipulation (12 + 3 min)

Burian Martin (Prague) Is the hepatic fatty-acid chain length dependent on the hepatic fat content? (12 + 3 min)

Ruth Steiger (Innsbruck) TBA/ MR Activities in Innsbruck (12 + 3 min)

Dražanová Eva (Brno) Cerebral blood perfusion detected by ASL MRI in preclinical research (12+3 min)

!!!! Newly introduced – Power Pitch Presentations and Poster Discussion!!!!

Pavlova Iveta (Brno) Comparison of MRS in vitro / in vivo on a 9.4T Bruker scanner

Benčíková Diana (Wien) In vitro and in vivo validation of radial fast spin echo based T2 mapping of the liver

Czerny Raphaela (Wien) Flexible coaxial RF coils with multiple gaps and turns

10:30 – 11:00 Poster Discussion & Coffee Break

11:00 - 12:45 Scientific session 3

Nohava Lena (Wien) Wearable electronics: a flexible coil vest for MR mammography (BRACOIL) (12 + 3 min)

Gruber Bernhard (Wien) On-coil B0 shimming with flexible coils - first perspectives (12 + 3 min)

Maier Oliver (Graz) Accelerated whole brain 3D parameter quantification (12 + 3 min)

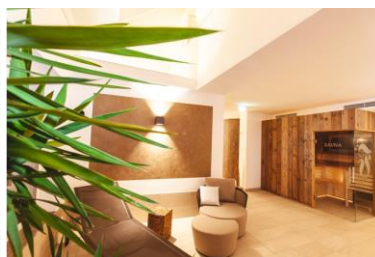
Birkl Christoph (Graz) Effect of iron extraction on quantitative MRI of post mortem human brain tissue (12 + 3 min)

Dezortová Monika (Prague) Wilson disease and its forms in MR (12 + 3 min)

Tinauer Christian (Graz) Relevance-guided Feature Extraction for Alzheimer's Disease Classification (12 + 3 min)

Lipka Alexandra / Hečková Eva (Wien) Ultra high-field MRSI in Multiple Sclerosis (12 + 3 min)

14:00 - 18:00 Excursion, Discussion in small, project specific, groups



Friday, September 20, 2019

08:45 - 10:30 Scientific session 4

Christoph Marx (Ergospect; Innsbruck) TBA /Ergometers and Applications (20 + 5 min)

Niess Fabian (Wien) Functional and metabolic heterogeneity along human calf muscles simultaneously measured with ^{31}P MRS/ ^1H ASL MRI at 7T (12+3 min)

Šedivý Petr (Prague) Origin of the ^{31}P MR signal at 5.3 ppm in patients with critical limb ischemia (12+3 min)

Wampl Stephan (Wien) In vivo Cardiac ^{31}P MRS at 7T (12+3 min)

Ziolkowska Natalia (Prague) New class of biodegradable responsive phosphorus-containing contrast agent for $^1\text{H}/^{31}\text{P}$ MR (12+3 min)

Galabov Radek (Prague) Comparison of Phase Contrast MRI Measurements of Turbulent Flow In Vitro and Lattice Boltzmann Method of Computational Fluid Dynamics (12+3 min)

10:30 - 11:00 Coffee Break

11:00 - 12:30 Scientific session 5

Latta Peter (Brno) A simple compensation method for improved half pulse excitation profile with a rephasing gradient (12+3 min)

Lazen Philipp (Wien) Simulation of MR Pulses and Overdiscrete Reconstruction in MRSI (12+3 min)

Söllradl Martin (Graz) Gradient echo modelling with macroscopic field variations and large flip angles (12+3 min)

Bachratá Beata (Wien) Simultaneous Multi-Metabolite Imaging: using multi-band principles to generate separate images of fat and water (12+3 min)

Ehrman Andreas (Wien) Super-resolution reconstruction in fMRI and QSM (12+3 min)

David Bancelin (Wien) Physiological noise in brainstem fMRI - Plan of my Project (12+3 min)

12:30 - Adjournment / Lunch



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