

International Workshop „Magnetic Resonance Studies“
(Project number: 72p15)

Final Report

The goal of this project was to organize the international workshop on magnetic resonance imaging (MRI) and spectroscopy (MRS) and to familiarize the audience with the scientific projects and recent advances on biomedical-research sites in Prague (Institute for Clinical and Experimental Medicine, Czech Republic), and Vienna (Medical University of Vienna, Austria). These traditional workshops started already in 1995. The workshop held this year took place in Alpenhof Semmering, 8685 Steinhaus am Semmering, Austria from May 21th to May 23rd 2015.

The focus of scientific part of the meeting was given to scientific lectures and project progress reports given by senior researchers of both institutes, guest lecturer (Dr. G. Helms, University Lund) and presentations given by graduate and postgraduate students on the topic of their projects in five scientific sessions. The focus was laid on:

- i) ¹H Magnetic resonance spectroscopy at 3T and 7T
- ii) ³¹P magnetic resonance spectroscopy of skeletal muscle and liver - Improvements in quantification, spectral and spatial resolution, dynamic and saturation transfer experiments
- iii) Novel concepts of contrast and contrast media in magnetic resonance imaging - biomedical and clinical applications
- iv) Phase imaging methods
- v) Advances and new approaches in MR hardware and software – coil design, data acquisition, correction methods in fMRI
- vi) Implementation of ¹H chemical exchange saturation transfer (CEST) in muscular-skeletal MR imaging.

The complete program of the workshop is attached.

Another important part of the workshop was informal discussions and consultations on MR data acquisition and evaluation as well as preparation of joint projects for the near future.

The workshop was complemented by short hiking tour in the surrounding and social event for all participants in the afternoon and evening of May 22nd.

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List of Participants:

1st Faculty of Medicine, Charles University Prague and Magnetic Resonance Unit, Institute for Clinical and Experimental Medicine:

1. Daniel Jirák
2. Milan Hájek
3. Dita Wagnerová
4. Vít Herynek
5. Monika Dezortová
6. Filip Jirů
7. Jaroslav Tintěra
8. Zuzana Ryznarová
9. Markéta Jirátová
10. Andrea Gálisová (Student)
11. Petr Šedivý (Student)
12. Jan Rydlo (Student)
13. Martin Burian (Student)
14. Miloslav Drobný (Student)
15. Radka Tušková (Student)

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16. Martin Krššák (Assoc. Prof.)
17. Wolfgang Bogner (Assoc. Prof.)
18. Martin Gajdošík (PhD Student)
19. Pedro Cardoso (PhD Student)
20. Barbara Dymerska (PhD Student)
21. Lenka Mináriková (PhD Student)
22. Marjeta Tušek-Jelenc (PhD Student)
23. Michal Považan (PhD Student)
24. Vladimír Mlynárik (Assoc. Prof.)
25. Simon Robinson (Assoc. Prof.)
26. Bernhard Strasser (PhD Student)
27. Benedikt Hager (PhD Student)
28. Albert Rechberger (PhD Student)
29. Paul Schenach (Diploma Student)
30. Korbinian Eckstein (Diploma Student)
31. Esau Poblador (Diploma Student)
32. Fabian Niess (Diploma Student)
33. Martin Meyerspeer (Assoc. Prof.)
34. Joachim Friske (PhD Student)
35. Andreas Berg (Assoc. Prof.)

36. Gunther Helms, Lund University, Sweden

Enclosure: Program of workshop (Program_Aktion2015final.pdf)
Empfangsbestätigung Tagegelder Pedagog/innen
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