



UNIVERSITA' DEGLI STUDI DELL'AQUILA
Dipartimento di Scienze e Tecnologie Biomediche



FORSCHUNGSZENTRUM JÜLICH
in der Helmholtz-Gemeinschaft

Mini-Workshop

**Current Magnetic Resonance Research
at the University of L'Aquila and
the Forschungszentrum Jülich**

L'Aquila, March 16, 2007

Organisers:

Prof. Marcello Alecci (Università dell'Aquila)

Prof. N. Jon Shah (Forschungszentrum Jülich)

Place:

Università degli Studi dell'Aquila

Dip. di Scienze e Tecnologie Biomediche

Coppito 2 - Aula C.2.10

08:30	Start of the Mini-Workshop	<i>N. J. Shah M. Alecci</i>
08:30	Welcome from the Director of Dipartimento STB Welcome from the Head of Applied Physics	<i>E. Scarnati A. Sotgiu</i>
08:40	New MR Activities at the Forschungszentrum Juelich	<i>N. J. Shah</i>
09:00	The MR Group in L'Aquila: a Brief Overview of Current Research Projects	<i>M. Alecci</i>
09:20	From 1.5T to 9.4T MRI: Quantitative and High Resolution Imaging	<i>A. Oros-Peusquens G. Placidi</i>
09:45	Acquisition Sequences for Rapid MRI	<i>G. Placidi</i>
10:10	High Performance MRI Simulations: Application to Spatially Selective Excitation Pulse Design	<i>T. Stöcker</i>
10:35	<i>Coffee break at the University Bar</i>	
10:50	MR Imaging of Lung Metastasis in vitro and Potential for Applications in Animal Models	<i>M. Alecci</i>
11:20	Sodium MR Imaging Strategies at 4T in the Human Brain	<i>S. Romanzetti</i>
11:45	Design of RF Surface coils for Clinical MR Spectroscopy	<i>M. Alfonsetti</i>
12:10	Novel Techniques for SPRITE Sodium Tumour MR Imaging	<i>J. Kaffanke</i>
12:35	Diffusion in the Heterogeneous Biological Materials with a Random Structure	<i>O. Posnanzky</i>
13:00	<i>Lunch</i>	
14:30	Development of a Veterinary MRI System	<i>A. Sotgiu</i>
14:55	Hardware Development for High Field MRI	<i>A. Celick</i>
15:20	Modelling of TEM Resonators for High Field MRI	<i>A. Vitacolonna</i>
15:40	<i>Coffee break at the University Bar</i>	
16:00	Fast T1 Mapping, EPIK and Motion Correction	<i>I. Gilani</i>
16:20	Simulation of Flat Permanent Magnet for Surface MRI	<i>M. Ciarrocchi</i>
16:40	Development of Methods for MR and PET for Functional and Structural Brain Imaging	<i>M. Ullisch</i>
17:00	Basic Principles of Parallel MRI	<i>Y. Kupriyanova</i>
17:20	Adjournment	<i>N. J. Shah, M. Alecci</i>
18:00	Visit to the MRI Laboratory	<i>M. Ciarrocchi A. Vitacolonna</i>