

**INTERNATIONAL SCHOOL ON MAGNETIC RESONANCE AND BRAIN FUNCTION – IV COURSE
PROGRAM**

	MONDAY, 22	TUESDAY, 23	WEDNESDAY, 24	THURSDAY, 25	FRIDAY, 26	SATURDAY, 27
	<i>Chairman Bruno Maraviglia</i>	<i>Chairman Nikos K. Logothetis</i>	<i>Chairman Richard Bowtell</i>		<i>Chairman Robert Turner</i>	<i>Chairman Klaas Prüssmann</i>
8.45	Opening					
9.00	Logothetis On the Interpretation of Field Potentials	Kuebler Relation between brain-computer interface performance and physical impairment - a review of 10 years work with paralysed patients	Logothetis In vivo connectivity: Electrical Stimulation & Paramagnetic Tracer Studies	Sightseeing tour	Uğurbil High Resolution Functional Imaging	Mac Kay T ₂ Relaxation in Brain and Spine
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10.00	Gore Measurements of Connectivity in the Brain by fMRI	Weiskopf Real-time fMRI used as a brain-computer interface	Gruetter Brain imaging and energy metabolism. New emerging perspectives		Bowtell Ultra High Field MRI: the Nottingham experience	Wise EEG and fMRI as tools for assessing the effect of drugs in the brain - Part 2
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.30	Coffee Break	Coffee Break	Coffee Break		Coffee Break	Coffee Break
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11.00	Villringer Toward imaging-guided stroke therapy	De Munck The hemodynamic response of the alpha-rhythm, as derived from simultaneous EEG, EKG and fMRI	Jasanoff Strategies for fMRI Using Molecular Imaging Agents		Mulkern Complementary aspects of diffusion imaging and fMRI	Avison Amphetamine-induced fMRI activation as a probe of dopamine transporter activity in vivo
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12.00	Bifone Mapping drug activity in the living brain with pharmacological MRI - part 1	Venneri Evaluating pharmacological treatment effects in dementia with MR	Iannetti EEG and fMRI as tools for assessing the effect of drugs in the brain – Part 1	Warren Imaging neuronal activity and other biomarkers with ultrafast lasers	Uğurbil Brain Energetics Studied by Low Gyromagnetic ratio Nuclei at High Fields	
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13.00						

		14:30-15:00 Poster session			14:30-15:00 Poster session	
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	Chairman John Gore	Chairman Alan Jasanoff	Chairman Rolf Gruetter		Chairmen Bruno Maraviglia & Girolamo Garreffa	Chairman Kâmil Uğurbil			
15.00	Bifone	Villringer	Warren	Sightseeing tour	Prüssmann Addressing dynamic field perturbations in MRI	Mangia Open issues about the metabolism of neuronal activation: what do experimental evidences from proton fMRS suggest?			
.15	Mapping drug activity in the living brain with pharmacological MRI - part 2	EEG-fMRI studies: Identifying rhythms, action potentials and their BOLD correlates	New signal enhancement methods for intermolecular multiple-quantum coherences						
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16.00	Prüssmann	Logothetis	Bowtell				State of the art and new targets of instrumentation for MRI	Fass (GE Healthcare) Convergent Technologies in Neurological Imaging	Bozzali Diffusion tensor MRI in neurological and psychiatric diseases
.15	Principles of parallel MRI	Structural and Functional Neurovascular Coupling	Effects of the Long Range Dipolar Field at High Magnetic Field in NMR and MRI						
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.45	Coffee Break	Coffee Break	Coffee Break						
17.00									
.15	Avison	Prüssmann	Turner						
.30	Optical imaging, High Speed Chronoamperometry and Electrophysiological Correlates of the fMRI Signal	Prospects of parallel MRI at high field	Cerebral Blood Volume: Measurement and Change						
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18.00	Formisano	Lemieux	Guttman	Coffee Break	Porter (Siemens Medical Solutions) Current developments in MRI Systems for functional Neuroimaging				
.15	“Brain reading” of fMRI data using machine learning methods	The investigation of spontaneous brain activity using EEG-correlated fMRI	Investigating multiple sclerosis: an example of image-centered explorations of neurological syndromes						
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					18.30-19.30 Guitar Concert: Piero Padoa				

Other activities:

Sunday, 21: 15.00 Poster can be posted from this time on in S. Domenico

19.00 Welcome gathering at Marsala Room