INTERNATIONAL SCHOOL ON MAGNETIC RESONANCE AND BRAIN FUNCTION – IX WORKSHOP

PROGRAM_2011

	Thursday, 26	**Friday, 27**	**Saturday, 28**	**Sunday, 29**	**Monday, 30**	**Tuesday, 31**
	Chairman B. Maraviglia	*Chairman F. Giove*	*Chairman S. Capuani*		*Chairman D. Rothman*	*Chairman J. T. Vaughan*
8:45	Opening					
9:00			**Kiselev** Structural complexity and non-Gaussian diffusion: An overview			
:15	**Logothetis** In vivo connectivity: Probing New Experimental and Analysis Methods	**Hertz** Cytosolic/mitochondrial trafficking during glucose metabolism and glutamate production in brain			**Jezzard** Quantitative Methods for Measurement of Cerebral Physiology and Blood Flow Using MRI	**Villringer** The female brain
:30			**Magin** Anomalous Diffusion Models Derived Using Fractional Calculus			
:45						
10:00	**Lemieux** Intracranial EEG-fMRI in humans: technique, epilepsy, BOLD-EEG coupling	**Sonnewald** Glial Neuronal interactions studied by 13CMR spectroscopy			**Rothman** Components of functional brain activity and their energy demands	**Warren** Using Nonlinear Optics to Explore Neuronal Firing and Improve Cancer Detection
:15						
:30			*Coffe Break*			
:45	*Coffe Break*	*Coffe Break*			*Coffe Break*	*Coffe Break*
11:00			**Barrick** Two-step anomalous diffusion tensor imaging			
:15						
:30	**Vaughan** Next generation NMR: neuroimaging technology and techniques	**Warren** New opportunities to explore brain structure with intermolecular coherences	**Grebenkov** Anomalous Diffusion: theoretical aspects and biological applications		**Gruetter** Unraveling brain metabolism using imaging - the perspective of a physicist	**Rothman** 13C MRS studies of substrate specific neuroenergetics
:45						
12:00			**Capuani** Spatio-temporal anomalous diffusion in heterogeneous media: a new approach			
:15						
:30	**Merkle** Opportunities and challenges for for MR coils within a vertical magnet setup	**Waagapetersen** Fueling of glutamatergic neurotransmission in the tripartite synapse	**Ozarslan** A fractal model of neural tissue to characterize the diffusion-time dependence of MR signal			**Mangia** Detection of brain activation using MRI without echo
:45						
13:00						

Sightseeing tour

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	Chairman N.K.Logothetis	*Chairman P. Jezzard*	*Chairman W.S. Warren*		*Chairman R. Gruetter*	*Chairman F. Giove*
15:00		**Aloisi** The pathology of multiple sclerosis: old paradigms and new insights	**Duyn** Study of Brain Structure with Magnetic Susceptibility Contrast		**Logothetis** Resting State Activity in Humans, Monkeys and Rats	**Porro** Functional parieto-frontal networks identified from resting state fMRI
:15	**Bowtell** Exploiting new understanding of artefacts in EEG-fMRI					
:30		**Bagnato** Imaging iron in patients with multiple sclerosis by 7 Tesla	**Mackay** Imaging Myelination in vivo: the challenges and the successes			**Iannetti** Neural mechanisms for the detection of salient sensory events
:45						
16:00	**Smith** Recent developments in resting-state FMRI				**Panzeri** Information theoretic methods for the analysis of fMRI recordings	
:15						
:30		*Coffe break*	*Coffe break*			*Coffe break*
:45	*Coffe break*			Sightseeing tour	*Coffe break*	
17:00		**Guttmann** Genetic and environmental determinants of multiple sclerosis activity and progression: a role for neuroimaging?	**Ronen** Applications of diffusion weighted spectroscopy in one and two dimensions to brain microstructure and function			**Mulkern** Reversible vs irreversible transverse relaxation mechanisms: tools to sort them out and apply them to fMRI
:15	**Eschenko** Neural-Event Triggered fMRI in the Rat				**Formisano** Combining functional neuroimaging, machine learning and computational modeling to understand brain functions	
:30						
:45		**Reich** The Gestation and Birth of a Multiple Sclerosis Plaque	**Villringer** What happens in the brain when we learn something?			
18:00	**Miller** Steady-state imaging techniques for detecting susceptibility changes in the brain				**Wise** The brain in the body:fMRI as a toll to probe physiological brain response and the control of bodily functons	
:15						
:30		**Poster session**	**Poster session**			
:45						
19:00						