La plasticité cérébrale: imagerie et modèles
30 – 31 octobre 2003

Jeudi, 30 octobre

08h30 – 08h50	Inscription (salle 5345) et café
08h50 – 09h10	Mots de bienvenue C. Léger, Directeur CRM Y. Joanette, Directeur RNQ B. Goulard, Comité d'organisation

Section 1: Cognitive models : Human

09h10 – 09h50	R. Toro (Institut de Sciences Cognitives de Lyon, UMR 5015) "Geometric model of the cortical organisation: neuroanatomic constraints for plasticity"
09h50 – 10h30	S. Lehericy (University of Minnesota) "fMRI and MEG study of reorganization of brain function in dystonia"
10h30 – 11h00	Pause-café
11h00 – 11h40	J. Doyon (Dép. de phychologie, Université de Montréal) "Plasticity within the cortico-striatal and cortico-cerebellar systems during motor learning"
11h40 – 12h20	C. Weiller (Dept. of Neurology, University of Hamburg) "Studying brain reorganization during motor and language recovery using TMS, PET, fMRI and DTI-MRI"

Lunch

Section 2: Clinical models

14h00 – 14h40	S. Cappa (Dept. of Neurology, University of San Raffaele, Italy) "Recovery and brain plasticity: methodological issues"
14h40 – 15h20	M. Lassonde (Dép. de psychologie, Université de Montréal) "Electrophysiological and functional imaging analysis of auditory localization in blind individuals"
15h20 – 15h50	Pause-café
15h50 – 16h30	H. Duffau (Service de Neurochirurgie, Salpêtrière, INSERM, Paris) "Study of brain connectivity and plasticity applied to surgery of low-grade gliomas in eloquent areas"
16h30 – 17h10	J.Gotman (Epilepsy Group, MNI, McGill University) "Combining EEG and fMRI in the study of epilepsy"

Cocktail de bienvenue

Vendredi, 31 octobre

Section 3: a-Cognitive model: Animal

08h30 – 09h10	S. Rossignol (CRSN, Université de Montréal) "Locomotor plasticity after spinal cord injuries"
09h10 – 09h50	F. Lepore (Dép. de psychologie, Université de Montréal) "Auditory activation of visual cortex in early enucleated rats"
09h50 – 10h20	Pause-café

b- Data analysis and statistical models 1

10h20 – 11h00	K. Worsley (Dept. of Mathematics & Statistics, McGill University) "Detecting brain damage using structure density, structure thickness and vector deformations"
11h00 – 11h40	T. Santner (Dept. of Statistics, Ohio State University) "Modification of the FDR procedure for fMRI data"

Lunch

Section 4: a- Data acquisition and models

13h45 – 14h25	L. Garnero (UPR 640, CNRS, LENA, Paris) "Dynamical imaging of cortical connectivity from MEG signals: methods and application to binocular rivalry"
14h25 – 15h05	D. Boas (MGH, Harvard University) "Near infrared spectroscopy and imaging of cerebral plasticity"
15h05 – 15h45	T. Paus (McConnell Brain Imaging Center, MNI, McGill University) "Changes in cortical excitability and connectivity induced by transcranial magnetic stimulation"
15h45 – 16h15	Pause-café

b- Data analysis and statistical models 2

16h15 – 16h55 C. Büchel (Dept. of Neurology, University of Hamburg)
"fMRI in systems neuroscience"

16h55 – 17h35 H. Benali (INSERM, Paris / CRM, Université de Montréal)
"Functional networks. Functional MRI imaging and modeling"

17h35 – 17h50 Conclusion
Y. Joanette, Directeur RNQ
B. Goulard, Comité d'organisation