

6th ONE-DAY SYMPOSIUM

**YOUNG BELGIAN MAGNETIC
RESONANCE SCIENTISTS
(6th YBMRS)**

Brussels, Friday, November 30th, 2007

Universitaire Stichting / Fondation Universitaire
Egmontstraat 11 / 11, rue d'Egmont
B-1000 BRUSSELS

Jointly Organized by

FNRS Groupe de Contact
Résonance Magnétique Pluridisciplinaire

FWO-Vlaanderen Wetenschappelijke Onderzoeksgemeenschap
*Gevorderde NMR toepassingen in de
materiaal-, chemische en biomedische wetenschappen*

Event Organized by
Michel Luhmer (ULB), José C. Martins (UGent)

Programme

- 8.15 Registration of the Participants and Coffee/Tea
- 8.55-10.15 **Morning Session 1**
FNRS - Groupe de Contact RMP
- 8.55 Introduction
- 9.00 *Peter J. Hore, Oxford University, UK*
**Photochemical NMR hyperpolarization -
Applications to protein structure and folding**
- 9.50 *Epiphanie Mugeniwabagara (UIB)*
Photo-CIDNP with Ru(II) polyazaaromatic coordination complexes
E. Mugeniwabagara, S. Perrier, I. Kuprov, A. Kirsch-De Mesmaeker, P.J. Hore,
M. Luhmer
*Laboratoire de Résonance Magnétique Nucléaire Haute Résolution, CP 160/08,
Université Libre de Bruxelles*
- 10.15-10.40 **Coffee/Tea Break**
- 10.40-12.20 **Morning Session 2**
FWO - Onderzoeksgemeenschap NMR
- 10.40 *David Bourry (UGent)*
**Structure-function relationship of actin binding modules studied by
NMR**
D. Bourry, M. Van Troys, A. Matagne, M. Dumoulin, C. Ampe, J. C. Martins
*NMR and Structure Analysis Unit, Department of Organic Chemistry and Department
of Biochemistry, Universiteit Gent and Laboratoire d'Enzymologie, Université de Liège*
- 11.05 *Silvia Kovacs (KUL)*
fMRI of human tonotopy and application to tinnitus
S. Kovacs, R. Peeters, M. Smits, D. De Ridder, S. Sunaert, P Van Hecke
University Hospitals Leuven

Programme Continued

- 11.30 *Filip Desmet (UA)*
Characterisation of the heme environment of the globin-coupled sensor of *Geobacter sulfurreducens* using EPR
F. Desmet, L. Thijs, H. El Mkami, G. M. Smith, S. Dewilde, L. Moens, S. Van Doorslaer.
Department of Physics, *Universiteit Antwerpen*
- 11.55 *Aline Hocq (UMH)*
Nuclear Magnetic Relaxation of iron containing human tissues
A.Hocq, S. Saussez, R.N. Muller, M. Luhmer, P. Gillis, Y. Gossuin
Biological Physics Department, Université de Mons-Hainaut
- 12.20-14.00 **Lunch Break**
- 14.00-15.40 **Afternoon Session 1**
FNRS - Groupe de Contact RMP
- 14.00 *Pavletta Denkova (VUB)*
Dynamics and supramolecular structure investigations of surfactant solutions by Diffusion Ordered NMR Spectroscopy
P.Denkova, L.Van Lokeren, R. Willem
HNMR, Vrije Universiteit Brussel and Institute of Organic Chemistry, Bulgarian Academy of Sciences
- 14.25 *Marco Giardiello (ULg)*
Responsive Lanthanide Probes: Design and Application
M. Giardiello, M. P. Lowe
Coordination and Radiochemistry, Université de Liège, and Department of Chemistry, University of Leicester, UK
- 14.50 *Sophie Vandebussche (ULB)*
NMR study of interactions between carbohydrates and aromatic moieties
S. Vandebussche, J. Jiménez-Barbero, K. Bartik
Molecular & Biomolecular Engineering, Université Libre de Bruxelles and CSIC, Madrid, Spain

Programme Continued

- 15.15** *Nicolas Charlier (UCL)*
EPR Molecular Imaging of Melanin in Melanomas
N. Charlier, E. Vanea, J. DeWever, M. Dinguizli, O. Feron, J.F. Baurain, and B. Gallez
Biomedical Magnetic Resonance Unit, Université Catholique de Louvain
- 15.40** **Coffee/Tea break**
- 16h05-17h10** **Afternoon Session 2**
FWO - Onderzoeksgemeenschap NMR
- 16.05** *Kurt Baeten (UH)*
Tracking of immune cells using paramagnetic particles in an animal model for multiple sclerosis
K. Baeten, J.J.A. Hendriks, N. Hellings, E. Theunissen, L. De Ryck, P. Stinissen, J. Gelan, P. Adriaensens
Hasselt University, Diepenbeek
- 16.30** *Uwe Himmelreich, Katholieke Universiteit Leuven*
What contributions can Magnetic Resonance make to stem cell research?
- 17.20** Closing Remarks by the Chairman
- 17.25** End