

Magnets, Macromolecules and Medicine in the New Century

INAUGURAL SYMPOSIUM FOR THE HENRY WELLCOME BUILDING FOR BIOMOLECULAR NMR SPECTROSCOPY

Programme

Tuesday 2 November 2004

- 18:15 Richard R Ernst (Nobel Prize for Chemistry, 1991)
Brailsford Prize Lecture "The responsibility of scientists as
a European view", Arthur Thomson Hall, Medical School
- 19:15 Evening Reception in the Arthur Thomson Hall Atrium

Wednesday 3 November 2004

Session I (European Research Institute)

- 9:00 Iain Campbell, University of Oxford "NMR, protein
modules and interactions"
- 9:25 David Cowburn, New York Structural Biology Centre,
"How NMR can advance structural proteomics --
segmental labeling and biomolecular interface
identification"
- 9:50 Robert Kaptein, Utrecht University, "Protein-DNA
Recognition. Structure, Dynamics, and Kinetics"
- 10:15 Break (and poster setup)

Session II (European Research Institute)

- 10:30 Heinz Rüterjans, J. W. Goethe University Frankfurt,
"Some Advantages of NMR in the Structure Determination
of Proteins"
- 10:55 Hartmut Oschkinat, Forschungsinstitut für Molekulare
Pharmakologie, "Protein Structure Determination by MAS
Solid-State NMR"
- 11:20 Ivano Bertini, University of Florence, "Inorganic
Structural Genomics by NMR"
- 11:45 Lunch in the European Research Institute Atrium and
Tours of the HWB-NMR facility

Session III (European Research Institute)

- 1:30 Harald Schwalbe, J. W. Goethe University Frankfurt,
"NMR in Structural Biology of RNAs and of Kinases"
- 1:55 Sheena Radford, University of Leeds, "Protein folding
dynamics and disease"
- 2:20 Markus Zweckstetter, Max Planck Institut für
Biophysikalische Chemie "Structural Biology with
natively unfolded proteins?"
- 2:45 Elizabeth Hounsell, Birkbeck University of London "NMR
studies of glycosylation in health and disease"
- 3:10 Break and Poster Viewing

Session IV (European Research Institute)

- 4:00 David Grainger, University of Cambridge. "NMR-based
metabolic fingerprinting: a new tool for diagnosis of
human disease"
- 4:25 Andy Blamire, Newcastle University, "Quantitative MRI
and MRS in diffuse CNS diseases"
- 4:50 Carles Arus, Universitat Autònoma de Barcelona, "A
decision support system for brain tumour diagnosis using
single voxel MRS"
- 5:15 Kevin Brindle, University of Cambridge, "Molecular
imaging in cancer"
- 7:00 Evening supper at the Birmingham City Council House

Thursday 4 November 2004

Session V (European Research Institute)

- 9:00 Mark Swindells, Inpharmatica
- 9:25 Linda Ball, Structural Genomics Consortium, "Structural
genomics and NMR studies of proteins"
- 9:50 Eva Lenz, AstraZeneca, "¹H NMR based metabonomic
studies of urine and plasma from human volunteers"
- 10:15 Break

Session VI (European Research Institute)

- 10:30 Don Robertson, Pfizer, NMR-based Metabonomics in
the Evaluation of Drug Safety
- 10:55 Jerry Bretherton, Oxford Instruments, "An Introduction
to Dynamic Nuclear Polarisation NMR Spectroscopy of
Solutions"
- 11:20 Iain Green, Varian Inc, "Quantitative Mixture Analysis -
A Technique to Measure Health by NMR"
- 11:55 Closing Comments

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