

**British Chapter International Society for Magnetic Resonance in Medicine  
(BCISMRM)  
10<sup>th</sup> Annual Meeting 2004, Edinburgh**

Venue: John McIntyre Centre, Pollock Halls, University of Edinburgh

**Thursday 2<sup>nd</sup> September 2004**

0800 onwards: check-in (NB no on-site registration)

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**0945 Welcome**

*Ian Marshall, University of Edinburgh*

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**1000 The Annual Bill Moore Memorial Lecture. Introduced by Peter Morris.**

A history of MRI at Aberdeen.

*Jim Hutchison, University of Aberdeen.*

1045 Coffee.

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**1115 Session 1: Heart and Lung. Chaired by Tom Redpath.**

1115: Invited Lecture 1. Recent Advances in Cardiovascular MR.

*John Ridgway, Leeds General Infirmary.*

1140: L1. Feature Extraction in Cardiac MRI using Padé Approximants.

*M.F. Callaghan, D.J. Larkman, S. Shmitz, J.V. Hajnal, Imperial College, London.*

1152: L2. Alveolar size in symptom-free adults.

*Barnaby Waters, John Owers-Bradley, Mike Silverman, Univs. of Nottingham and Leicester.*

1204: L3. Quantitative analysis of regional airways obstruction using dynamic hyperpolarized <sup>3</sup>He MRI - Preliminary results in children with cystic fibrosis.

*P Koumellis, EJR van Beek, C Hill, N Woodhouse, S FICHELE, MNJ Paley, C Taylor, J M Wild, University of Sheffield.*

1216: L4. Ventilation MRI using Single Point Imaging and gadolinium enhancement.

*Anthony Price, Albert Busza, Alan White, Peter Morris, University of Nottingham and GlaxoSmithKline.*

1230 Lunch, posters and exhibition.

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**1330 Session 2: Diffusion Imaging. Chaired by Mark Bastin.**

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1330: Invited Lecture 2. Diffusion imaging techniques for assessing brain structure and connectivity. *Gareth Barker*, Institute of Psychiatry, London.

1355: L5. Multiple Coils for Diffusion Weighted Segmented EPI.

*David Atkinson, Joseph V. Hajnal, David J. Larkman, Philipp G. Batchelor, Derek L.G. Hill*, King's College and Imperial College, London.

1407: L6. The impact of increased spatial resolution in anisotropy measurements.

*R. G. Nunes, P. Jezzard, T. E.J. Behrens, S. Clare*, University of Oxford.

1419: L7. Automatic Segmentation of White Matter Pathways by Application of a Region Growing Algorithm. *Thomas R. Barrick, I. Nigel C. Lawes, Chris A. Clark*, St. George's Hospital Medical School, London.

1431: L8. Direct estimation of fibre orientations in partial volume contaminated regions using spherical deconvolution. *J.-Donald Tournier, Fernando Calamante, David G. Gadian, Alan Connelly*, University College London.

1443: L9. Mapping Diffusion Tensor Shape and Direction.

*Yuji Shen*, Department of Clinical Neuroscience, St George's Hospital Medical School.

1500 Tea.

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**1530 Session 3: Perfusion Imaging. Chaired by David Thomas.**

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1530: Invited Lecture 3. Arterial Spin Labelling Perfusion Imaging and its Application to fMRI. *Peter Jezzard*, fMRIB Centre, Oxford University.

1555: L10. Single-shot multi-slice perfusion weighted imaging using echo volumar imaging. *Wietske van der Zwaag, Sue Francis, Richard Bowtell*, University of Nottingham.

1607: L11. EPI artifact control with SENSE and higher-order shims on a clinical 3.0 T scanner. *M. Alex Dresner, Jo Hajnal*, Imperial College, London.

1619: L12. BOLD and Perfusion Changes in Brain from Altered Concentrations of Inspired Oxygen and Carbon Dioxide. *Daniel Bulte, Peter Chiarelli, Richard Wise, Peter Jezzard*, University of Oxford.

1631: L13. Monitoring blood flow and oxygenation changes accompanying hyperaemia in plantar foot muscle using MRI. *I Cavin, C Hoad, P Gowland, I Macdonald, R Donnelly, S Francis*, University of Nottingham.

1643: L14. Investigating the Haemodynamic Response During Infusion of Gd-(HP-DO3A) with High Temporal Resolution. *Nicholas Blockley, Susan Francis, Penny Gowland*, University of Nottingham.

1700 Close of session.

1900 Reception and conference dinner (Playfair Library, Old College).

**Friday 3<sup>rd</sup> September 2004**

**0900 Session 4: Safety update. Chaired by Roger Ordidge.**

0900: Invited Lecture 4. MR Safety: Bioeffects and regulatory issues.  
*Penny Gowland*, University of Nottingham.

**0940 Session 5: Molecular Imaging. Chaired by Martyn Paley.**

0940: L15. A Generic Method for Imaging Transgene Expression.  
*Po-Wah So, Sarah Hotee, Amy H. Herlihy, Jimmy D. Bell*, Imperial College, London.

0952: L16. Gene therapy for stroke: an MRI study.  
*Romina Aron Badin, Louise van der Weerd, Mark F. Lythgoe, David L. Thomas, David G. Gadian, David S. Latchman*, Institute of Child Health and University College, London.

1004: L17. Mapping of neutrophil migration in the lung *in vivo* using MRI.  
*S Hotee, KK Changani, A White, K Bhakoo, JD Bell*, Imperial College and GlaxoSmithKline.

1016: L18. Development of a new contrast agent for blood pool imaging and targeted contrast delivery using rHA and Gd-DTPA. *Jim M Wild<sup>1</sup>, John Woodrow<sup>2</sup>, Berndt Misselwitz<sup>3</sup>, Edwin JR van Beek<sup>1</sup>, Richard Johnson<sup>2</sup>*, University of Sheffield<sup>1</sup>, Upperton Ltd<sup>2</sup> and Schering AG<sup>3</sup>.

1030 Coffee.

**1100 Session 6: Advanced spectroscopy. Chaired by Peter Morris and Doug Rothman.**

1100: Invited Lecture 5. High Field <sup>1</sup>H MRS Studies of Neurotransmitter Metabolism.  
*Doug Rothman*, Yale University.

1140: L19. Non-invasive regional cerebral thermometry by proton spectroscopic imaging.  
*Thornton JS, Cady EB, Bainbridge A, Priest AN, Iwata O, Iwata S, Shanmugalingam S, Wyatt JS, Robertson N, Ordidge RJ*, Institute of Child Health and University College London.

1152: L20. MRI & <sup>31</sup>P MRS studies of Brain Energetics in a Model of Cerebral Vasoconstriction. *Raman Saggi, John P. Lowe, Andrew. M. Blamire, Daniel. C. Anthony, Peter Styles, Nicola R. Sibson*, University of Oxford.

1204: L21. Amino acid measurements in vivo using 2D J-resolved MR Spectroscopy.  
*H. Hawesa, S. Williams*, University of Manchester.

1216: L22. Detecting GABA at 1.5T: Comparison of 2D JPRESS and 2D L-COSY.  
*Kristin Haga, Katherine Lymer, Joanna Wardlaw, Albert Thomas\*, Ian Marshall*, University of Edinburgh and \*UCLA.

1228: L23. Magnetization transfer spectroscopy of metabolites and macromolecules of human brain in vivo. *MA McLean, RJ Simister, GJ Barker, JS Duncan*, University and King's Colleges, London.

1245 Lunch, posters and exhibition.

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**1345 Session 7: Clinical fMRI. Chaired by Gordon Waiter.**

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1345: Invited Lecture 6. Applications of functional MRI in clinical research and practice. *Paul Matthews*, fMRIB Centre, Oxford University.

1410: L24. Evaluation of a new method to correct the effects of motion -induced B<sub>0</sub>-field variation during fMRI. *J.P. Marques, R.W. Bowtell*, University of Nottingham.

1422: L25. Dissociation of blood oxygenation level dependent MRI responses and evoked potentials to visual activation in mild hypoxic hypoxia. *Pasi I. Tuunanen, Ian J. Murray, Neil R.A. Parry, Risto A. Kauppinen*, University of Manchester, University of Kuopio and UMIST.

1434: L26. Olfactory fMRI In The Brain Stem Using An Interleaved Gradient Echo EPI Method To Compensate For Susceptibility Artifacts. *Anderson Mon, Martyn Paley, Paul Griffiths, Jim Wild*, University of Sheffield.

1446: L27. Direct Detection of firing of the optic nerve using Magnetic Resonance Imaging. *Li Sze Chow, Greg Cook, Elspeth Whitby, Martyn Paley*, University of Sheffield.

1458: L28. Functional Imaging of Appetite Regulation: a comparison of fMRI and c-Fos expression. *Jennifer A. Stark, Karen E. Davies, Shane McKie, Steve R. Williams, Simon M. Luckman*, University of Manchester.

1515 Tea.

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**1540 Session 8: MR in cancer. Chaired by Martin Leach.**

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1540: Invited Lecture 7. MRI of cancer. *Scott Semple*, University of Aberdeen.

1605: L29. Late tissue effects following radiotherapy of the prostate measured with quantitative MRI. *David L. Buckley, Sajida K. Khaki, John P. Logue, Charles E. Hutchinson*, University of Manchester and Christie Hospital.

1617: L30. Changes in Dynamic Contrast-Enhanced MRI Pharmacokinetic Parameters pre- and post-Radiotherapy in Cervical Carcinoma. *S. B. Donaldson, D. L. Buckley, C. M. L. West, B. M. Carrington, R. D. Hunter, S. E. Davidson, A. P. Jones*, Christie Hospital and University of Manchester.

1629: L31. Effects of an anti-Angiogenic and anti-Tumour Antibody on Tumour Vasculature determined by Dynamic Contrast Enhanced MRI. *Inna V. Linnik, David L. Buckley and Steve R. Williams*, University of Manchester.

1645 Close of conference.