

**HIGHER FIELD MR (1.5 T & UP) IN ONCOLOGY:  
STRATEGIC FRONTIERS IN CANCER DIAGNOSIS AND TREATMENT  
A National Cancer Institute (USA) Workshop with the Endorsement of the  
International Society of Magnetic Resonance in Medicine**

**Moat House Hotel, Glasgow, Scotland  
Friday, April 20, 2001 (Just before ISMRM)**

**Program**

Chairman: Gary Glover, PhD  
Co-Chairman: Michael Knopp, MD, PhD

7:30 am	Continental Breakfast	
8:00	Welcome/Introductions	C. Leon Partain, MD, PhD
8:05	Biomedical Imaging Program at NCI	Daniel C. Sullivan, MD
8:15	Mechanisms of Funding Technology Development	Larry P. Clarke, PhD
8:30	Purpose of Workshop	Gary Glover, PhD
8:45	PANEL I: Molecular and Clinical Oncology Perspective	June Taylor, PhD - Moderator Michael Knopp, MD, PhD - Co-Moderator
9:00	1. Overview of Clinical Problems and Future Directions in Oncology	Michael Knopp, MD, PhD
9:15	2. High Field MR: A Molecular Biology Perspective	King Li, MD, MBA
9:30	3. High Field MR: An Oncology Perspective	June S. Taylor, PhD
9:45	4. Clinical Results at 3.0 T	Matt Bernstein, PhD and John Huston, MD
10:15	5. Discussion	
10:30	COFFEE BREAK	

10:45	PANEL II: High Field MRS; Potential in Oncology	Gary Glover, PhD - Moderator Douglas A. Kelley, PhD
10:50	1. MRS in Cancer at 1.5 T	John R Griffiths, MD, PhD
11:05	2. MRS in Cancer at 4.0 T	Michael Garwood, PhD
11:20	3. Opportunities and Challenges at Very High Fields (7 – 12 T): Comparison/Contrast to PET	Thomas F. Budinger, MD, PhD
11:35	4. Discussion	
12:00	LUNCH (Deli Sandwich)	
1:00	PANEL III: High Field Methodology: Functional, Molecular, and Dynamic MRI	Gustav von Schulthess, MD, PhD Moderator Jeffrey L. Evelhoch, PhD Co-Moderator
1:10	1. Smart Contrast Agents	Thomas Meade, PhD
1:30	2. Contrast Mechanisms: Field Dependence	Charles Springer, PhD
1:45	3. Dynamic Contrast Enhanced MR: Opportunities and Pitfalls at High Field	Jeffrey L. Evelhoch, PhD
2:00	4. Monitoring Chemotherapeutic Response Using Diffusion MRI	Robert J. Gillies, PhD
2:15	5. fMRI Potential in Oncology: Presurgical Planning	Robert Turner, PhD
2:35	6. Discussion	
3:00	COFFEE/TEA TIME	
3:30	Summary/Recommendations	Michael Vannier, MD Gary Glover, PhD Michael Knopp, MD, PhD
5:30	ADJOURN	

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### **Other Invited Academic Participants**

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|--------------------------------|---------------------------------------|
| 1. Jeffrey R. Alger, PhD       | UCLA                                  |
| 2. Mark Badnarski, MD, PhD     | Stanford                              |
| 3. James Basilion, PhD         | MGH/Harvard                           |
| 4. Zaver M. Bhujwala, PhD      | Johns Hopkins                         |
| 5. Truman Brown, PhD           | Columbia                              |
| 6. Donald W. Chakeres, MD      | Ohio State University                 |
| 7. Peter Choyke, MD            | NIH                                   |
| 8. John C. Gore, PhD           | Yale University                       |
| 9. Mark Haacke, PhD            | MRI Institute for Biomedical Research |
| 10. John Kurhanewicz, PhD      | UCSF                                  |
| 11. Robert Lenkinski, PhD      | Beth Israel                           |
| 12. James MacFall, PhD         | Duke                                  |
| 13. D. R. Newell, D. Phil.     | University of Newcastle               |
| 14. Ronald R. Price, PhD       | Vanderbilt                            |
| 15. Kathleen M. Schmainda, PhD | Medical College of Wisconsin          |
| 16. Michael Smith, PhD         | Penn State                            |

### **Invited Commercial Participants**

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|----------------------------|---------------------------|
| 17. Jonathan Allis, PhD    | Siemens                   |
| 18. Thomas Balzer, PhD     | Schering, Berlin          |
| 19. Lindsey Carver, PhD    | GE                        |
| 20. Friedrich Cavagna, PhD | Bracco                    |
| 21. David Feldman, PhD     | Berlex                    |
| 22. Dennis Fujii, PhD      | Nicomed                   |
| 23. Hiroyuki Fujita, PhD   | USA Instruments           |
| 24. Roy Gordon, PhD        | Bruker                    |
| 25. Andrea Kassner, PhD    | Philips                   |
| 26. Elaine Keeler, PhD     | Marconi                   |
| 27. Peter Luyten, PhD      | Philips                   |
| 28. Derek Shaw, PhD        | GE                        |
| 29. Ravi Srinivansan, PhD  | Advanced Imaging Research |
| 30. Richard Stevens, PhD   | Medical Advances/IGC      |
| 31. Mike F. Tweedle, PhD   | Bracco                    |

### **Biomedical Imaging Program/National Cancer Institute Staff**

32. Daniel C. Sullivan, MD
33. Edward V. Staab, MD
34. Larry P. Clarke, PhD
35. Houston Baker, PhD
36. C. Leon Partain, MD, PhD

**Total Invited Participants 51**

### **Support Staff**

1. Nancy Pursell, BIP/NCI/NIH
2. Fran Oscar, Palladian Partners, Inc.
3. Cordie Miller, ISMRM, Meetings Director
4. Barbara Sammons, Center for Imaging Research, VUMC
5. Jane Tiemann, ISMRM, Executive Director

**Backup Potential Participants**

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|------------------------------|--|
| 1. Michal Neeman, PhD        | Weizmann Institute, Israel                   |
| 2. Gordon Jayson, M D        | Manchester, Oncology                         |
| 3. Robert C. Bast, MD        | MD Anderson Cancer Center                    |
| 4. Nicholas J. Vogelzang, MD | University of Chicago Cancer Research Center |
| 5. Jason Koutcher, MD        | Memorial Sloan Kettering Cancer Center       |

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