ISMRM Workshop on: 
Breaking the Barriers of Diffusion MRI

11–16 September 2016 
Sheraton Lisboa Hotel • Lisbon, Portugal

TARGET AUDIENCE: This workshop is designed for researchers (including Ph.D. students and postdocs); clinicians (e.g., neurologists, radiologists, neurosurgeons); MR technologists; government regulatory experts; nonprofit and academic groups interested in early diagnosis and public health; and members of the ISMRM Diffusion MRI and White Matter Study Groups.

OVERVIEW
The workshop program will focus on the latest methodology developments and clinical applications in Diffusion MRI.

Key topics include microstructural modelling, processing and analysis, fiber tractography, as well as the integration of novel diffusion MRI methods in clinical studies.

The workshop will feature invited scientific presentations, proffered papers, poster sessions and panel discussions.

EDUCATIONAL OBJECTIVES
Upon completion of this activity, participants should be able to:

• Review the fundamentals of diffusion acquisition, modeling and reconstruction.
• Recognize the current limitations in diffusion MRI, both from the standpoints of physical limits and obstacles to clinical translation.
• Explore the strengths and limitations of state-of-the-art methods for diffusion modeling and tractography.
• Analyze the emerging concepts in structural connectivity, g-ratio imaging, experimental validation of diffusion techniques.
• Describe the development and application of diffusion MRI outside the brain.

OPTIONAL BOOTCAMP:
(Morning Session: 2.0 CME available; Afternoon Session: 2.5 CME available)
The workshop will commence with an optional one-day “bootcamp” on Monday, 12 September for investigators and trainees less familiar with diffusion to learn the fundamentals of diffusion contrast, acquisition, processing, analysis and interpretation. This immersive refresher course has been developed to prepare participants to appreciate the latest scientific developments, controversies and clinical applications to be presented during the formal workshop program from Tuesday, 13 September through Friday, 16 September. The bootcamp will have an informal, intimate format to enable attendees to interact closely with lecturers and gain practical insights into working in the field of diffusion MR.

“We have now ventured into an era in which Diffusion MRI is applied to further our fundamental understanding of many organs in health and disease. We encourage all Diffusion MRI colleagues to join this comprehensive workshop, to learn and network on the field’s significant contributions, impact and potential advances.”

— The Organizers

COMMITEE CHAIR:
Christopher Hess, M.D., Ph.D.
University of California
San Francisco, CA, USA

ORGANIZING COMMITTEE:
Mara Cercignani, Ph.D.
Brighton & Sussex Medical School
Brighton, UK
Maxime Descoteaux, Ph.D.
Sherbrooke University
Sherbrooke, QC, Canada
Tim Dyby, Ph.D.
Copenhagen University Hospital
Hvidovre, Denmark
Alexander Leemans, Ph.D.
University Medical Center
Utrecht, The Netherlands

ISMRM WORKSHOP SERIES 2016
GROUND-BREAKING MR SCIENCE • SUPERIOR MR EDUCATION • GLOBAL NETWORKING

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FOR MORE INFORMATION INCLUDING HOUSING & REGISTRATION, PLEASE VISIT:
www.ismrm.org/workshops/Diffusion16
OR CALL: +1 510 841 1899

The International Society for Magnetic Resonance in Medicine designates this live activity for a preliminary maximum of 21.25* AMA PRA Category 1 Credits™. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

The International Society for Magnetic Resonance in Medicine designates the Optional Bootcamp portion of this live activity for a preliminary maximum of 4.50* AMA PRA Category 1 Credits™. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

* preliminary credit designation; subject to change