OVERVIEW

The course is aimed at training radiologists, technologists and physicists on how to collect high quality spectroscopy data and how to interpret it in a clinical setting. The goal is to describe the primary place of MRS in neuro-diagnosis. The requirements for successful 1H MRS will be defined at the scanner console and by means of a teaching files. Normal limits, unacceptable data, and normal regional variations will be covered as will the influence of altering acquisition and post aquisitional parameters. Sources of failure in MRS, and strategies for solving them is an important part of the course. At a more advanced level the techniques for acquiring robust multi-voxel MRS and reconstruction of chemical shift images will be covered. The participants will be taught how to exploit the huge gains that come with high field MR scanners and acquiring and reading brain spectra from high field scanners.

OBJECTIVES/GOALS

To provide fundamental information necessary to use and interpret MRS via experts in the field, hands-on scanner training and small group interpretation sessions.

REGISTRATION INFORMATION

For specific tuition fees, see the registration form. All foreign payments must be made by a draft on a United States Bank or by Visa or Mastercard. If paying by check, please make payable to Harvard Medical School and mail with completed registration form to Harvard Medical School Department of Continuing Education, PO Box 825, Boston, MA 02117-0825. If paying by credit card, please register online at www.cme.hms.harvard.edu/courses/neurospectroscopy, Telephone or mail- in registration with credit card payment is not accepted. Inquiries should be directed to the above address, made by phone: (617) 384-8600, Monday Friday, 10 AM to 4 PM (EST), or by email: hms-cme@hms.harvard.edu. Upon receipt of registration a confirmation will be mailed to the address listed on the form.

Please note: Program changes/substitutions may be made without notice. Upon receipt of registration, a confirmation letter will be mailed to the address listed on the form.

REFUND POLICY

A handling fee of $60 is deducted for cancellation. Refund requests must be received by mail or fax one week prior to the course. No refunds will be made thereafter.

ACCREDITATION

Harvard Medical School is accredited by the Accreditation Council for Continuing Medical Education (ACCME) to provide continuing medical education for physicians.

Harvard Medical School designates this educational activity for a maximum of 15 AMA PRA Category 1 Credit(s)™. Physicians should only claim credit commensurate with the extent of their participation in the activity.

COURSE LOCATION

Bornstein Amphitheater and Lee Bell Imaging Center, Brigham and Women’s Hospital, 75 Francis Street, Boston, MA

HARVARD MEDICAL SCHOOL FACULTY

R Gilberto Gonzalez, MD, PhD: Professor of Radiology, Harvard Medical School; Director of Neuroradiology, Massachusetts General Hospital

Carolyn Mountford, D Phil (Oxon): Visiting Professor in Radiology; Director, Center for Clinical Spectroscopy, Department of Radiology, Brigham and Women’s Hospital, Boston, MA

Saad Ramadan, PhD: Instructor in Radiology; Senior Scientist, Center for Clinical Spectroscopy, Department of Radiology, Brigham and Women’s Hospital, Boston, MA

Peter Stanwell, PhD: Instructor in Radiology; MR Physicist, Center for Clinical Spectroscopy, Department of Radiology, Brigham and Women’s Hospital, Boston, MA

GUEST FACULTY

Brian D Ross MD, FRCS, FRCPath, ASN, D Phil (Oxon): Professor of Radiology and Professor of Clinical Medicine, Keck School of Medicine, University of Southern California, Los Angeles, CA; Visiting Associate in Chemistry and Chemical Engineering, California Institute of Technology, Pasadena, CA and Director Clinical MR Unit, Huntington Medical Research Institutes, Pasadena, CA; Receipting of ISMRM Gold Medal

Alexander P Lin PhD: Director of MR Spectroscopy Clinical Services, Director of Imaging Research Huntington Medical Research Institutes; MR Staff Coordinator, Broad Imaging Center, California Institute of Technology, Pasadena, CA, Master Series Neurospectroscopy (National and International Coordinator)

Nouha Salibi, PhD: Staff Scientist, Siemens Medical Solutions USA, Inc.

Timo Schirmer, PhD: Chief Scientist and Manager, GE Healthcare, Applied Science Laboratory Europe

Ravi Seethamraju, PhD: Staff Scientist, Siemens Medical Solutions USA, Inc.

Thao T Tran, BS: Technology Training Coordinator; CVMR and Neurospectroscopy, Huntington Medical Research Institutes, Pasadena, CA; Master Series Neurospectroscopy (National and International Coordinator)
PROGRAM

FRIDAY, NOVEMBER 7, 2008

Single Voxel MR Spectroscopy
1:30 REGISTRATION
2:00 Welcome
2:05 Clinical Neuro-MRS
2:30 Changing the Face of Radiology
3:00 Acquiring Single Voxel Spectroscopy: Global and Focal Applications
3:30 Basic Math and Physics of Single Voxel MRS
4:00 Demo at the Scanner: Single Voxel MRS
6:00 Cocktails and Dinner

BORNSTEIN AMPHITHEATER
Carolyn Mountford
R Gilberto Gonzalez
Brian Ross
Alexander Lin
Peter Stanwell
Peter Stanwell/Alexander Lin

SATURDAY, NOVEMBER 8, 2008

8:00 CONTINENTAL BREAKFAST and Attendee Sign-In - Bornstein Amphitheater
9:00 Group 1: Acquisition of Single Voxel MRS: See one, Do one!
Group 2: Basic Reading Single Voxel
Group 3: Single Voxel Spectroscopy Display/Processing
Group 4: "Quantitative" Single Voxel MRS
1:00 BOX LUNCH

Lee Bell Scanner Room
Bornstein Amphitheater
Abrams Conference Room 1
Abrams Conference Room 2

Multivoxel MRS
2:00 Physics of CSI
2:30 Clinical CSI
3:00 Clinical MRS at High Field: 1.5T vs 3T
3:30 Post Acquisition Processing of Data
3:45 Display and Processing of CSI
4:00 Guest Lecture: Quantitation: LCModel, JMRUI and INTERPRET
5:00 Demo at Scanner
7:00 Adjoin

Saad Ramadan
Peter Stanwell
Brian Ross
Carolyn Mountford
Nouha Salibi
Timo Schirmer
Timo Schirmer

SUNDAY, NOVEMBER 9, 2008

8:00 CONTINENTAL BREAKFAST and Attendee Sign-In - Bornstein Amphitheater
9:00 Single Voxel Data Acquisition and Interpretation Workshops in Parallel
Group 1: Acquisition of Single Voxel MRS: See one, Do one!
Group 2: Basic Reading Single Voxel
Group 3: Single Voxel Spectroscopy Display/Processing
Group 4: "Quantitative" Single Voxel MRS
11:30 Writing and Reporting MRS Reports
12:15 Evidence-Based Medicine / Personalized Medicine and MRS
12:30 The Future is Bright - Round Table
1:00 Adjourn

Lee Bell Scanner
Bornstein Amphitheater
Aboms Conference Room 1
Aboms Conference Room 2

NEUROSPECTROSCOPY WORKSHOP BOSTON
Full Fee: $1,900  Course #2814264

First Name | Middle Initial | Last Name
Street | City | State | Zip Code
Daytime Phone | Fax Number | Email Address
Professional School Attended | Year of Graduation | Profession
Principal Specialty | Board Certified: Yes ____ No ____
Organization Affiliation

Please check if you wish to be excluded from receiving email notices of future HMS-DCE programs.

Registrations paid by credit card may be made online at: www.cme.hms.harvard.edu/courses/neurospectroscopy

Online Registrants - to ensure proper registration, please add the first three characters of the source code found here: Source Code: X ZZ