SYMPOSIUM AND TRAINING XVII:
HYPERPOLARIZATION IN BIOLOGY

Wednesday-Thursday
May 20-21, 2009

UT Southwestern Medical Center
T. Boone Pickens Biomedical Building
Dallas, Texas

Sponsored by
The National Center for Research Resources, UT Southwestern Advanced Imaging Research Center and the Office of Continuing Medical Education
SYMPOSIUM AND TRAINING XVII: HYPERPOLARIZATION IN BIOLOGY

Teaching Session – PROBING METABOLIC PATHWAYS BY 13C NMR: THE BASICS

WEDNESDAY, MAY 20, 2009

12:00 pm  Registration
1:00 pm  How NMR Illuminates Physiology and Medicine – Robert Shulman, Ph.D.
2:00 pm  Carbon Tracers and Enzyme Kinetics – A. Dean Sherry, Ph.D.
3:00 pm  Substrate Oxidation in Heart and Skeletal Muscle – Craig Malloy, M.D.
4:00 pm  Glucose Production and Complex Networks in Pancreas and Liver – Shawn Burgess, Ph.D.
5:00 pm  Problem Set – Sample Spectra and Discussion

Adjourn

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THURSDAY, MAY 21, 2009

8:00 am  Registration
9:00 am  Introduction to Dynamic Nuclear Polarization – Matthew Merritt, Ph.D.
10:00 am  The Journey of DNP-Enhanced Nuclear Spins: From the Polarizer to the Brain – Amber Comment, Ph.D.
11:00 am  Lunch
12:00 pm  13C Hyperpolarization: History, Results and Future – Charles Cunningham, Ph.D.
1:00 pm  How to Image Hyperpolarized 13C – Charles Cunningham, Ph.D.
2:00 pm  How to Image Hyperpolarized 13C– Mark Jeffrey, Ph.D.
3:00 pm  Imaging Tumour Responses to Treatment with Hyperpolarized 13C Magnetic Resonance Spectroscopic Imaging – Kevin Brindle, Ph.D.
4:00 pm  Early Clinical Perspectives on Hyperpolarized 13C – John Kuharicous, Ph.D.
5:00 pm  Discussion

Adjourn/Reception

REGISTRATION FORM

SYMPOSIUM AND TRAINING XVII: HYPERPOLARIZATION IN BIOLOGY

WEDNESDAY–THURSDAY, MAY 20–21, 2009

**Although there is no registration fee, in order to guarantee your lunch and course materials, we do require a completed registration form faxed to #214-648-4804 prior to May 13, 2009**

Name ___________________________ Degree ___________________________ Last Four Digits of SS# ___________________________

Address ___________________________ City ___________________________ State ___________________________ Zip Code ___________________________

Affirmative Business Phone ___________________________ Fax ___________________________

Email ___________________________ Please indicate preferred method to receive confirmation: ☐ Email ☐ Fax ☐ Mail

Type of Credit Requested: ___________________________ (please check) ☐ AMA ☐ General

Complete and mail directly or fax registration to:

UT Southwestern / Continuing Medical Education
5323 Harry Hines Boulevard
Dallas, Texas 75390-9059

Phone (214) 648-3138, 1-800-688-6878 Fax (214) 648-4804

EDUCATIONAL OBJECTIVES

Upon completion of this activity, participants should be able to link the educational objectives to Care Competencies (Medical Knowledge and Patient Care) and be able to:

- Summarize the fundamental advantages of 13C NMR compared to standard radiotracer or radionuclide methods

- Explain why the magnetic resonance signal is higher from hyperpolarized samples compared to ordinary MRI

- Identify the factors that currently limit hyperpolarized 13C imaging

- Discuss one example of a clinical condition, modeled in experimental animals, that can be evaluated by 13C hyperpolarization and imaging

ACCREDITATION

The University of Texas Southwestern Medical Center is accredited by the Accreditation Council for Continuing Medical Education to provide continuing medical education for physicians.

CREDIT DESIGNATION

The University of Texas Southwestern Medical Center designates this educational activity for a maximum of 9.75 AMA PRA Category 1 Credit™. Physicians should only claim credit commensurate with the extent of their participation in the activity.

Conflict of Interest

It is UT Southwestern’s policy that participants in CME activities should be made aware of any affiliation or financial interest that may affect the speaker’s presentation(s). Each speaker has completed and signed a conflict of interest statement. The faculty members’ relationships will be disclosed in the course syllabus.

Discussion of Off-Label Use

Because this course is meant to educate physicians with what is currently in use and what may be available in the future, there may be “off-label” use discussed in the presentations. Speakers have been requested to inform the audience when off-label use is being discussed.

REGISTRATION

Registration is complimentary, but in order to guarantee your lunch and course materials, we do require a completed registration form prior to May 13, 2009.

CANCELLATION POLICY

The Office of Continuing Medical Education reserves the right to limit registration and cancel courses, no less than one week prior to the course, should circumstances make this necessary.

LOCATION

UT Southwestern Medical Center
T. Boone Pickens Biomedical Building
6001 Forest Park Road
Dallas, Texas 75235

Parking

Complimentary parking is available in the Visitor Garage entered from 6001 Forest Park Road located adjacent to the T. Boone Pickens Biomedical Building. The garage elevators will take you to the third floor. Follow the directional signs to the conference room. Parking vouchers will be available at the registration desk.

ADA STATEMENT

We accommodate people with disabilities. Please call 214-648-3138 for more information, or mark the space indicated on the registration form. Please register as soon as possible.

The University of Texas Southwestern Medical Center is committed to providing programs and activities to all persons regardless of race, color, national origin, religion, sex, age, veteran status, or disability.

UT Southwestern is an equal opportunity institution.
The Symp osium issupported by an NIH-funded CenterforResearch

ElectronicObjectivestoCoreCompetencies (MedicalKnowledge and

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SYMPHONIA AND TRAINING XVII:
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