



The American Neurological Association

*Second Annual*  
**Summer Course**

for Clinical and Translational Research in the Neurosciences

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August 13-16, 2009 | Vail Marriott Mountain Resort & Spa | Vail, CO



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## Course Description

This course is designed to further the development of young clinical neuroscientists interested or engaged in translational or clinical research. The course immediately precedes the NINDS/ University of Rochester Clinical Research course, which is designed to focus on clinical trials. Compared to fields such as oncology, cardiology, and diabetes and metabolism, the clinical neurosciences currently lack well established pathways for providing this kind of training for fellows and junior faculty. This three-day course will engage selected residents, research fellows, and junior faculty members in an analysis of the development of therapies for neurological diseases. Most participants will be in neurology or neurosurgery, and most will not have already developed long-term research programs or funding, but they should have declared intentions to work in this field.

Throughout the course, strategies for career development will be interwoven with didactic material. The sequence of topics will work forward from early stages of development, including initial screening and efficacy testing in model systems, to the evolution of therapeutic hypotheses, through early, middle and late stage clinical trials, to the post-marketing assessment of therapies.

Lectures, group discussions, and case examples will be used as learning strategies. Case studies will include examples of both successful and failed translational attempts, and also of instructive but flawed clinical trials. Case studies will be provided prior to the course to participants and will be used throughout as a basis for discussions.

Each day will include time for career development sessions focused on individual students. Some of these individual stories—those that have more general implications for career development—will be worked up in more detail and presented for discussion involving the whole group of students and faculty.



## Accreditation, Certification, and Application Information

### Accreditation

The American Neurological Association is accredited by the Accreditation Council for Continuing Medical Education to provide continuing medical education for physicians.

### Certification

The American Neurological Association designates this educational activity for a maximum of 26 AMA PRA Category 1 Credit(s)<sup>™</sup>. Physicians should only claim credit commensurate with the extent of their participation in the activity.

### Application Processes and Fees

#### Required Application Materials:

To register, please complete the registration form on page 7, scan, and return by e-mail to ana@llmsi.com.

**In addition to your application form, you MUST submit the following items:**

- A statement including: (1) a short introduction of yourself, including your current position and an outline of your career plan and clinical/translational research interests; (2) your career goals for the next 10 years; and (3) your primary objectives for this course (what you hope to learn/accomplish).
- A copy of your NIH bio-sketch or CV with abbreviated bibliography.

The application, statement and biosketch should be submitted electronically in one package to ana@llmsi.com no later than May 1, 2009. **IMPORTANT!** Should any of these pieces of information be missing, the application will be considered incomplete and not included for review.

### Selection Process

Participants' complete applications will be subject to committee review to confirm that each applicant's career path and background are appropriate for the course. All qualified applicants will be accepted on a first-come, first-served basis. Applicants will be notified of their status no later than June 1, 2009. Once an applicant has been accepted to attend the course, he/she will receive further information regarding payment of the \$500 course registration fee and travel scholarship details.

**SPACE IS LIMITED TO 35 PARTICIPANTS.  
REGISTRATION DEADLINE IS MAY 1, 2009 OR UNTIL THE COURSE IS FULL.**



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**Schedule** (*May be subject to change*)

**Thursday, August 13, 2009**

**Afternoon Arrivals**

**6 pm - Evening Welcome Reception/Dinner**

*Course Director Justin C. McArthur, MB BS, MPH, John Hopkins University, and Co-Directors John W. Griffin, MD, John Hopkins University and Jeffrey Rothstein, MD, PhD, John Hopkins University will each provide a perspective, and tell their stories.*

**Friday, August 14, 2009**

**AM: Overview of the Challenge: The Translational Gap**

*Introduction – Walter J. Koroshetz, MD, National Institute of Neurological Disorders and Stroke*

*Producing Therapies: How We're Doing – Hamilton "Chip" Moses, MD, The Alerion Institute*

*What's Wrong with Neurotranslational Research? – Greg Simon, JD, President, FasterCures*

*The Role of the NIH – Walter J. Koroshetz, MD, National Institute of Neurological Disorders and Stroke*

*The Role of Universities and Academic Neurologists – Robert L. Macdonald, MD, PhD, Vanderbilt University*

*Conflicts of Interest and Academic-Industry Interactions – Stephen L. Hauser, MD, University of California, San Francisco*

**PM: Translational research in neuroscience**

*Taking an Idea to a Therapy: the Gleevec® and Myostatin Stories – Kathryn Wagner, MD, PhD, Johns Hopkins University*

*Identifying New Molecules for Therapy – Jeffery D. Rothstein, MD, PhD, Johns Hopkins University*

*Rationale Use of Animal Models – Walter J. Koroshetz, MD, National Institute of Neurological Disorders and Stroke*

*Challenges of New Devices (Using Deep Brain Stimulation as an example) – Helen S. Mayberg, MD, Emory University*

*Issues with New Interventional Devices and Procedures – TBA*

**Evening: Small group meetings with faculty**



Schedule, *continued* (May be subject to change)

**Saturday, August 15, 2009**

**AM: How Therapies Get to People**

Embracing Futility – *Karl Kiebertz, MD, MPH, University of Rochester*

The Roles of Industry – *Manny Pangalos, PhD, Wyeth Pharmaceuticals*

Initial Human Use, Monitoring for Adverse Events – *Gilmore O’Neill, MB, MMedSc, Biogen Idec*

ABC’s of Clinical Trial Designs – *Scott Evans, PhD, MS, Harvard University*

Neuropathic Pain – *TBA*

Phase I and II Studies – *Gilmore O’Neill, MB, MMedSc, Biogen Idec*

Development and Use of Biomarkers for Neuropsychiatric Diseases –  
*Michelle M. Mielke, PhD, Johns Hopkins University*

Is the Therapy Hitting Its Target? – *Manny Pangalos, PhD, Wyeth Pharmaceuticals*

Using Institutional and Other Funding Sources to Get Started – Case Studies:

(Cases may include imatinib for CML, gamma secretase inhibition/modulation for Alzheimer’s [the Myriad trial], DBS for movement disorders and depression)

– *Dennis M. D. Landis, MD, Georgetown University, Walter J. Koroshetz, MD, National Institute of Neurological Disorders and Stroke and Jeffery D. Rothstein, MD, PhD, Johns Hopkins University*

**Evening: Group Discussions of Career Development**

**Sunday, August 16, 2009**

**AM: Clinical Testing of New Therapies**

Post-Marketing Assessment and Evidence-based Assessment – *Jacqueline A. French, MD, New York University*

The Emerging Role of Host Genetics in Translational/Clinical Research Studies – *TBA*

Evolving Trial Design – *Scott Evans, PhD, MS, Harvard University*

Successful Participation in Multi-institutional Studies – *Merit E. Cudkowicz, MD, Harvard University*

Case History: Parkinson Study Group – *Bernard Ravina, MD, MSCE, University of Rochester and Karl Kiebertz, MD, MPH, University of Rochester*

**Lunch: Where Do I Go From Here?** – *Karen C. Johnston, MD, University of Virginia*

**PM: Departures**



## Hotel and Area Information

### Vail Marriott Hotel

Nestled at the base of Vail Mountain resort and conveniently located 150 yards from the gondola; Vail Marriott is ideal lodging for daredevils, daydreamers or those seeking a little adventure. The natural beauty that surrounds the hotel has effortlessly been incorporated into the charm and elegance of its European Chateau feel including rich wood architecture, cozy rooms and two heated pools.

### Hotel Highlights

- Located in Lionshead Village, close to Vail Village and 150 yards from Eagle Bahn Gondola.
- Golden Leaf Spa & Fitness Center

### Vail Marriott® Mountain Resort & Spa

715 West Lionshead Circle  
Vail, Colorado 81657 USA

**Phone:** 1-970-476-4444 | **Fax:** 1-970-476-1647

**Toll-free:** 1-800-648-0720

### Top Vail Attractions

- Vail Nature Center
- Betty Ford Alpine Garden
- Colorado Ski & Snowboard Museum
- Glenwood Springs/ Hot Springs
- Fly fishing and hiking
- Rafting and kayaking

### Nearby Cities

- Breckenridge (20.9mi/33.63km)
- Aspen (38.7mi/62.28km)
- Avon (7.5mi/12.07km)

For a visitor's guide to Vail and surrounding areas, visit this link: <http://www.marriott.com/hotels/travel-guide/whrco-vail-marriott-mountain-resort-and-spa/>

## Transportation Information

### Transportation to and from the Vail Marriott Area Airports

#### Denver International Airport - DEN

**Distance to Vail Marriott:** 127 miles W (*approx. 2.5 hours*)

**Driving Directions:** Take I-70 West, approximately 130 miles to Exit 176. Follow the first roundabout under the bridge, then follow the signs going towards Lionshead. Turn right on South Frontage Road. Turn left onto West Lionshead Circle. Resort will be on your right.

#### Vail Eagle County Regional Airport - EGE

**Distance to Vail Marriott:** 35 miles E (*approx. 45 minutes*)

**Driving Directions:** Take I-70 East for 30 miles to exit 176. Take a right on South Frontage Road. Take a left on West Lionshead Circle. The resort will be on your right.

**For information on shuttle services, please contact Colorado Mountain Express:**

**Phone:** 1-800-525-9800 | **Website:** [www.ridecme.com](http://www.ridecme.com)

