Basal Ganglia: Function, Movement Disorders and Treatment Options

April 17, 2009 • Emory University, Atlanta, GA

Benefit
The Neurosciences Initiative symposium Basal Ganglia: Function, Movement Disorders and Treatment Options will provide participants with a summary of insights from recent pre-clinical and clinical basal ganglia-related research studies, presented by world-renowned faculty. The presentations will inform the audience about our current knowledge of the normal anatomy and function of these structures, the role of abnormal activity in these brain nuclei in the development of clinical disorders and the application of this knowledge to new pharmacological and surgical therapies for movement disorders of basal ganglia origin. The symposium will be valuable for health care professionals as an up-to-date review of the pathophysiology of basal ganglia disorders and emerging rationale treatment options for these conditions.

Target Audience
This symposium is designed for physicians and neuroscientists interested in the function of basal ganglia and the role of these brain nuclei in movement disorders and other diseases.

CME Certification
The Emory University School of Medicine designates this educational activity for a maximum of 10.5 AMA PRA Category 1 Credits™. Physicians should only claim credit commensurate with the extent of their participation in the activity.

The Emory University School of Medicine is accredited by the ACCME to provide continuing medical education for physicians.

Sponsor
Rollins Research Center
Suite G651510 Clifton Road, NE
Atlanta, Georgia 30322
Educational Objectives
After attending this symposium, participants should:

• Be able to identify the basal ganglia and know their most important anatomical components
• Appreciate the links between the basal ganglia and neighboring brain nuclei
• Know salient electrophysiologic characteristics of basal ganglia neurons
• Understand how anatomical and physiological characteristics can be used to understand basal ganglia functions
• Have an understanding of the important role of the basal ganglia in motor learning and plasticity
• Understand how abnormalities in learning functions in basal ganglia disorders may be relevant for the development of disorders that prominently feature stereotypes (such as obsessive-compulsive disorder or Tourette's syndrome)
• Know the major pathophysiologic steps associated with the development of Parkinson's disease
• Understand the role of the basal ganglia in the pathophysiology of dystonia
• Know the brain abnormalities in Huntington's disease and the role they play in the pathogenesis and pathophysiology of the disorder
• Have a thorough understanding of novel drug therapies (such as allosteric modulators or drugs acting at subtypes of glutamate receptors) in Parkinson's disease and dystonia
• Understand the rationale and clinical criteria for the use of deep brain stimulation in tremor and Parkinson's disease and appreciate the effectiveness and limitations of deep brain stimulation in these conditions
• Know the rationale, clinical criteria and effects of deep brain stimulation in hyperkinetic disorders, such as dystonia and chorea

Accommodations
A block of rooms has been reserved for conference attendees at:
The Emory Conference Center Hotel
1615 Clifton Road
Atlanta, GA 30329
Phone: 404-712-6000
www.emoryconferencecenter.com
Early hotel reservations are suggested. Reference the Emory Neurosciences Symposium to receive the special group meeting rate of $169 per night. Please indicate single or double occupancy when making your reservation. Hotel room rates are subject to applicable state and local taxes in effect at the time of check-in. All reservations must be accompanied by a first-night room deposit or guaranteed with a major credit card. The hotel will not hold any reservations unless secured by one of the above methods. Atlanta is served by the Hartsfield Jackson International Airport.

Agenda
9-9:15 a.m. Welcome
Dennis Choi, MD, PhD
Thomas Wichmann, MD
9:15-9:30 a.m. Introductory remarks
Guy McKhann, MD
(Johns Hopkins University, Baltimore, MD)
9:30-10:05 a.m. Basal ganglia anatomy
Peter Strick, PhD
(University of Pittsburgh, Pittsburgh, PA)
10:05-10:40 a.m. Electrophysiology of basal ganglia
Hagai Bergman, MD, PhD
(Hebrew University, Jerusalem, Israel)
10:40-10:50 a.m. Break
10:50-11:25 a.m. Learning and plasticity in basal ganglia function
Ann Graybiel, PhD
(Massachusetts Institute of Technology, Boston, MA)
11:25 a.m.-1 p.m. Lunch
Session 2: Pathophysiology and pathogenesis of movement disorders
(Chair: Thomas Wichmann, MD)
1:10-1:45 p.m. Pathophysiology of Parkinson's disease
Jose Obeso, MD
(University of Navarra, Pamplona, Spain)
1:45-2:20 p.m. Pathophysiology of dystonia
Jerrold Vitek, MD, PhD
(Cleveland Clinic, Cleveland, OH)
2:20-2:30 p.m. Break
2:30-3:05 p.m. Huntington's disease: pathogenesis and pathophysiology
Annie Young, MD, PhD
(Harvard University and Massachusetts General Hospital, Boston, MA)
3:05-3:40 p.m. New pharmacologic approaches to Parkinson’s disease/dystonia
Jeff Conn, PhD
(Vanderbilt University, Nashville, TN)
3:40-3:50 p.m. Break
3:50-4:25 p.m. DBS for tremor and PD: new applications
Andres Lozano, MD, PhD
(Toronto Western Hospital, ON, Canada)
4:25-5 p.m.
Closing remarks
Thomas Wichmann, MD

Fees
• General attendance – Free*
• Those seeking CME credit – $25 per person
*Note: Pre-registration is requested for all participants.

Packing
Symposium attendees may park in the Michael Street Parking Deck or Emory University Hospital (Valet service). Any fees associated with parking are the responsibility of the attendee.

Registration Information
Call 404-778-7777 to register.
Registration deadline: April 10

Disclaimer
Emory Neurosciences reserves the right to cancel activities prior to the scheduled date if circumstances make it necessary. Each registrant will be notified by mail or e-mail, or through the contact numbers provided during registration. In case of activity cancellation, liability of Emory Neurosciences is limited to the appropriate registration fee, which Emory Neurosciences will refund in its entirety. Emory Neurosciences reserves the right to limit the number of participants in a program and is not responsible for any expenses incurred by an individual whose registration is not confirmed and for whom space is not available.

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