

Hallym University Medical Center
NewYork-Presbyterian Hospital
Columbia University College of Physicians and Surgeons
Weill Cornell Medical College

Neurodegenerative Diseases: Genetic, Biological and Vascular Mechanisms

Friday, October 26, 2007

Program Director:
Michael Shelanski, MD, PhD
Columbia University Medical Center
New York, NY

Program Co-Director:
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Seoul, Korea

The New York Academy of Sciences
7 World Trade Center
250 Greenwich Street, 40th Floor, Auditorium
New York, NY 10007-2157

A 6.0 CME Accredited Course

❖❖❖ Overall Goals

This symposium is a one-day educational event that will review contemporary research on neurodegeneration in the field of clinical neurology and basic neuroscience. Specific topics covered in this symposium include genetics, neuroimaging, neuropsychological tests and molecular neurobiology.

❖❖❖ Learning Objectives

- Understand current situation and progress on genes causing Alzheimer's disease or Parkinson's disease.
- Understand how current neuroimaging technologies and neuropsychological tests can be used in the assessment of cognition.
- Understand molecular mechanisms of neurodegeneration in models *in vivo* or *in vitro*.

❖❖❖ Target Audience

This program was designed for healthcare professionals focused on neurodegenerative diseases including: Neurologists, Psychologists, Neuroscientists and Neurosurgeons.

❖❖❖ Accreditation/Designation of Credit

This activity has been planned and implemented in accordance with the Essential Areas and policies of the Accreditation Council for Continuing Medical Education through the joint sponsorship of the College of Physicians and Surgeons of Columbia University, Hallym University Medical Center, NewYork-Presbyterian Hospital, and Weill Cornell Medical College. The College of Physicians and Surgeons of Columbia University is accredited by the ACCME to provide continuing medical education for physicians.

The College of Physicians and Surgeons designates this educational activity for a maximum of 6.0 *AMA PRA Category 1 Credits™*. Physicians should only claim credit commensurate with the extent of their participation in the activity.

The American College of Nurse Practitioners (ACNP) and The American Academy of Physician Assistants (AAPA) accept AMA/PRA category 1 credit from organizations accredited by the ACCME.

The American Nurses Credentialing Center (ANCC) accepts AMA/PRA category 1 credit toward recertification requirements.

❖❖❖ Disclosure Statement

As an accredited sponsor, the College of Physicians & Surgeons must ensure balance, independence, objectivity, and scientific rigor in its educational activities. All faculty participating in this activity are required to disclose to the audience any significant financial interest and/or other relationship with the manufacturer(s) of any commercial product(s) and/or provider(s) of commercial services discussed in his/her presentation and/or the commercial contributor(s) of this activity. When unlabeled uses are discussed, these will also be indicated.



Welcome Message

Hallym University Medical Center consists of five general hospitals with a total capacity of more than 3,200 beds, growing into one of the largest medical centers in Korea. Since Hallym University Medical Center signed the international affiliation agreement with NewYork-Presbyterian Hospital, Columbia University College of Physicians and Surgeons, and Weill Cornell Medical College in 2004, the institutions have collaborated on a series of annual international symposia, with this year being the fifth.

The four previous symposia have addressed a wide array of salient social and medical issues including an aging society, obesity, robotic surgery, artificial organs, genetic therapy, asthma and allergic diseases.

This fifth symposium will focus on the theme of "Neurodegenerative Diseases: Genetic, Biological and Vascular Mechanisms," which have become more important as the world has rapidly entered into an aging society. By sharing our expertise and experiences, we will be able to move forward in finding solutions to neurodegenerative diseases.

Moreover, this symposium carries a particular meaning as it is being held here in New York City where NewYork-Presbyterian Hospital, Columbia University College of Physicians and Surgeons, and Weill Cornell Medical College are located. Thus, with the participation of many distinguished experts in the United States, we look forward to having more active and rewarding discussions.

I have no doubt that our continuous collaboration as well as our exchange of scientific knowledge will not only help build core capabilities in the era of globalization, but also contribute to the enhancement of health care for mankind.

Finally, I would like to take this opportunity to thank all speakers and organizers at Columbia University Medical Center, Weill Cornell Medical College, NewYork-Presbyterian Hospital and Hallym University Medical Center who have made this extraordinary symposium possible.



Sang-Hoon Bae, MD, PhD
President
Hallym University Medical Center

Program Agenda

8:00 am	Registration and Continental Breakfast
	Opening Remarks
9:00 am	Sang-Hoon Bae, MD, PhD President, Hallym University Medical Center
9:10 am	Michael Shelanski, MD, PhD Chair, Department of Pathology, Columbia University Medical Center
9:20 am	Dai-Won Yoon, MD, PhD Chairman, Board of Trustees, Ilsong Educational Foundation, Hallym University
9:25 am	Gerald Fishbach, MD Hatch Professor; Professor of Pharmacology, Center for Neurobiology and Behavior Columbia University College of Physicians and Surgeons
9:30 am	Antonio M. Gotto, Jr., MD Dean, Weill Cornell Medical College
9:35 am	Herbert Pardes, MD President and CEO, NewYork-Presbyterian Hospital

Session I : Genetics of Neurodegenerative Diseases

Moderators : Richard S. Rhee, MD, FAAN and Joseph H. Lee, DrPH

9:40 am	Genetics of Alzheimer's Disease Richard Mayeux, MD, MSc
10:10 am	Analysis of Genes Causing Parkinson's Disease in a Korean Parkinson's Disease Cohort Yun Joong Kim, MD, PhD
10:40 am	Session I Q & A
10:55 am	Coffee Break

Session II : Tools to Assess Patients with Cognitive Decline: Neuropsychological Test/Imaging

Moderators : Byung-Chul Lee, MD, PhD and Ottavio Arancio, MD, PhD

11:15 am	Development of the Korean Neuropsychological Instruments for Dementia Yeonwook Kang, PhD
11:45 am	Significance of Vascular Burden in Cognition and Dementia Soo Jin Cho, MD, PhD



12:15 pm	Cognitive Reserve, Aging and Dementia Yaakov Stern, PhD
12:45 pm	Session II Q & A
1:00 pm	Lunch

Session III : Understanding Neurodegeneration at Molecular Level for a New Treatment

Moderators : Yong-Sun Kim, MD, PhD and Norman Relkin, MD, PhD

2:00 pm	Cellular Insights into β -Amyloid Immunotherapy for Alzheimer's Disease Gunnar Gouras, MD
2:30 pm	Making and Saving Dopamine Neurons Asa Abeliovich, MD, PhD
3:00 pm	Hypoxia Inducible Factor-1 (HIF-1) Prolyl Hydroxylase Inhibition Prevents Neuronal Injury: A Case Study in the Adaptive Response of the Brain to Ischemia and Oxidative Stress Rajiv Ratan, MD, PhD
3:30 pm	Calsenilin, a Multifunctional Neuronal Calcium Sensor in Neurodegeneration Eun-Kyoung Choi, PhD
4:00 pm	Nervous Wreck and Synapsin-Dependent Regulation of Synaptic Vesicle Distribution at Active Zones Young-Ho Koh, PhD
4:30 pm	Session III Q & A
	Closing Remarks
4:50 pm	Hae-Ran Lee, MD, PhD Vice President, Hallym University Medical Center
4:55 pm	Michael Shelanski, MD, PhD Chair, Department of Pathology, Columbia University Medical Center
5:00 pm	Program Adjourns

Faculty



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Neurodegenerative Diseases: Genetic, Biological and Vascular Mechanisms



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Meeting Location

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Telephone: 212.298.8600

For information on parking garages,
hotel options, and driving directions,
please visit: www.nyas.org/about/directions.asp

Registration (Space is limited - Early registration is highly encouraged)

❖ REGISTRATION is COMPLIMENTARY

Please register in advance - on or before Friday October 19, 2007.

BY MAIL : Complete the attached registration form and mail to:

ATTN: Neuroscience Coordinator
Columbia University Medical Center
Department of Surgery, External Affairs
400 Kelby Street, 8th Floor
Fort Lee, NJ 07024

ONLINE : www.columbiasurgeryCME.org

BY FAX : Complete the attached registration form and fax to: 201,346,7011.

PLEASE NOTE: Registration is limited and will be handled on a first-come, first-served basis. Telephone registrations and/or cancellations are not accepted.

Registration Form

Please register me for the continuing education program:

Neurodegenerative Diseases: Genetic, Biological & Vascular Mechanisms

❖ REGISTRATION is COMPLIMENTARY

Registration Deadline: Friday October 19, 2007

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The New York Academy of Sciences

The 5th Collaborative International Symposium presented by

Hallam University Medical Center

NewYork-Presbyterian Hospital

Columbia University College of Physicians and Surgeons

Weill Cornell Medical College

