From Neurodegeneration to Brain Health
An Integrated Approach

Participate On-site or On-line

Friday and Saturday, October 25-26, 2013

Iris S. and Bert L. Wolstein Research Building
Case Western Reserve University
Cleveland, Ohio

www.brainhealth2013.com
Introduction

From Neurodegeneration to Brain Health will bring together the most distinguished brain scientists to explore the current biological, psychosocial and ecological aspects of memory loss disorders. Our Keynote Speakers include Dr. Stanley Prusiner, recipient of the Nobel Prize in Medicine in 1997 and Dr. Karen Duff, recipient of the Potamkin Prize in 2006.

On display in the Wolstein building lobby will be ceramic pieces and photographs by George Roby and Herbert Ascherman, regionally and nationally exhibited artists. Their work reflects dimensions of Alzheimer’s Disease, and how art can help in the understanding of the disease as it affects those diagnosed and their caregivers. Be sure to take time to view and consider these interesting works.

A highlight of the Symposium will be a special evening at the Museum of Contemporary Art in its new building in the heart of University Circle.

Participate on-site in Cleveland or on-line!

Who Should Attend

This symposium is designed for neurologists, psychiatrists, geriatricians, neuroradiologists, pathologists, psychologists and neuroscientists. Nurses and other allied health professionals may also find this education of value.

Objectives

After attending this program participants will be able to:

- Identify dementia and mild cognitive impairment at the earliest stages
- Apply consistent guidelines for use of clinical imaging modalities
- Discuss and recognize current clinical trials methodology in Alzheimer’s disease and related conditions

Continuing Education

Case Western Reserve University School of Medicine is accredited by the Accreditation Council for Continuing Medical Education to provide continuing medical education to physicians.

Case Western Reserve University School of Medicine designates this live activity for a maximum of 13.5 AMA PRA Category 1 Credits™. Physicians should claim only the credit commensurate with the extent of their participation in the activity.
# Faculty / Keynote Speakers

**Stanley B. Prusiner, MD**  
Director, Institute for Neurodegenerative Diseases  
University of California, San Francisco  
Recipient of the Albert Lasker Award for Basic Medical Research in 1994, the Nobel Prize in Medicine in 1997 for his work in discovering the prion, and the National Medal of Science in 2010

**Karen Duff, PhD**  
Professor of Pathology  
Columbia University  
Recipient of the Potamkin Prize in 2006 for her work on Alzheimer’s disease

**Guest Faculty**

**Neelum Aggarwal, MD**  
Associate Professor of Neurological Sciences  
Rush University Medical Center  
Chicago, IL

**Randall Bateman, MD**  
Charles F. and Joanne Knight Distinguished Professor of Neurology  
Washington University School of Medicine  
St. Louis, MO

**Cameron Camp, PhD**  
Director, Research and Development  
Center for Applied Research in Dementia  
Cleveland, OH

**Jeffrey Cummings, MD**  
Director, Lou Ruvo Center for Brain Health  
Cleveland Clinic Las Vegas  
Las Vegas, NV

**Oscar Lopez, MD**  
Professor of Neurology  
University of Pittsburgh  
Pittsburgh, PA

**George Perry, PhD**  
Dean, College of Sciences  
Professor of Biology  
University of Texas at San Antonio  
San Antonio, TX

**William Reichman, MD**  
President and CEO, Baycrest Health Sciences  
Professor of Psychiatry  
University of Toronto  
Toronto, Ontario

**Case Western Reserve University/University Hospitals Case Medical Center**

**Richard Boyatzis, PhD**  
Distinguished University Professor  
Departments of Organizational Behavior, Psychology and Cognitive Science

**Gemma Casadesus, PhD**  
Assistant Professor of Neurosciences

**Anthony Furlan, MD**  
Professor and Chair  
Department of Neurology

**Grover Gilmore, PhD**  
Dean, Mandel School of Applied Social Sciences

**Barry Hoffer, MD, PhD**  
Director, Neurosurgical Research

**Anthony Jack, PhD**  
Assistant Professor of Cognitive Science

**Gary Landreth, PhD**  
Professor of Neurosciences and Neurology  
Director, Alzheimer Research Laboratory

**Alan Lerner, MD**  
Course Director  
Professor of Neurology  
Director, Brain Health and Memory Center

**Cameron McIntyre, PhD**  
Associate Professor of Biomedical Engineering

**Jonathan Miller, MD**  
Assistant Professor of Neurosurgery  
Director, Center for Functional and Restorative Neurosurgery

**Robert Petersen, PhD**  
Associate Professor of Pathology, Neuroscience and Neurology

**Jiri Safar, MD**  
Course Co-Director  
Associate Professor of Pathology and Neurology  
Co-Director, National Prion Diseases Pathology Surveillance Center

**Martha Sajatovic, MD**  
Professor of Psychiatry and Neurology  
Director, Neurological Outcomes and Behavioral Center

**Witold Surewicz, PhD**  
Professor of Physiology & Biophysics

**Curtis Tatsuoka, PhD**  
Director of Biostatistics  
Department of Neurology

**Benjamin Walter, MD**  
Assistant Professor of Neurology  
Director, Center for Movement Disorders

**Yanning Wang, PhD**  
Associate Professor of Radiology, Chemistry and Biomedical Engineering  
Director, Radiopharmaceutical Division  
Center for Imaging Research

**Peter Whitehouse, MD, PhD**  
Professor of Neurology  
**Xiongwei Zhu, PhD**  
Associate Professor of Pathology
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<thead>
<tr>
<th>Time</th>
<th>Event</th>
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<tr>
<td>7:00 – 7:45am</td>
<td>Registration and Continental Breakfast</td>
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<tr>
<td>7:45 – 8:00</td>
<td>Welcome and Opening Remarks • Alan Lerner, MD and Jiri Safar, MD</td>
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<td><strong>Emergent Properties and Increasing Complexities</strong></td>
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<td><strong>Chairs: Alan Lerner, MD and Jiri Safar, MD</strong></td>
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<tr>
<td>8:00 – 9:00</td>
<td>Keynote Presentation: A Unifying Role for Prions in Neurodegenerative Diseases • Stanley Prusiner, MD</td>
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<tr>
<td>9:00 – 9:30</td>
<td>Neurodegeneration: Challenges and Opportunities • George Perry, PhD</td>
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<tr>
<td>9:30 – 10:00</td>
<td>Changes in Memory, Cognition, Physical Function and Disability in Chicago-based Communities • Neelum Aggarwal, MD</td>
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<tr>
<td>10:00 – 10:15</td>
<td>Break</td>
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<tr>
<td>10:15 – 10:45</td>
<td>Determinants of Progression Rate in Neurodegenerative Diseases • Jiri Safar, MD</td>
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<tr>
<td>10:45 – 11:15</td>
<td>Interaction Between Prion Protein and Aβ Oligomers: A Therapeutic Potential in Alzheimer Disease • Wiltold Surewicz, PhD</td>
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<tr>
<td>11:15 – Noon</td>
<td>Panel Discussion</td>
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<tr>
<td>Noon – 1:00pm</td>
<td>Lunch</td>
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<td><strong>Development of Neurodegeneration</strong></td>
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<td><strong>Chair: Barry Hoffer, MD, PhD</strong></td>
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<td>1:00 – 2:00</td>
<td>The Mark Smith Memorial Lecture: Tau and the Spread of Neurodegeneration • Karen Duff, PhD</td>
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<tr>
<td>2:00 – 2:30</td>
<td>Early Diagnosis of Alzheimer’s Disease • Oscar Lopez, MD</td>
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<td>2:30 – 3:00</td>
<td>The Course of Changes in Dominantly Inherited Alzheimer’s Disease Randall Bateman, MD</td>
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<td>3:00 – 3:15</td>
<td>Break</td>
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<tr>
<td>3:15 – 3:45</td>
<td>Environmental and Genetic Factors in Neurodegeneration in Parkinson’s Disease • Benjamin Walter, MD</td>
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<tr>
<td>3:45 – 4:15</td>
<td>Couch Potato Syndrome: Molecular Effects of Diet and Exercise on Cognitive Aging and Dementia • Gemma Casadesus, PhD</td>
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<tr>
<td>4:15 – 4:45</td>
<td>Mitochondrial Dynamics as a Novel Therapeutic Target for Alzheimer’s Disease • Xiongwei Zhu, PhD</td>
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<td>4:45 – 5:00</td>
<td>Panel Discussion</td>
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<td><strong>Special event at Museum of Contemporary Art (Requires Additional Fee)</strong></td>
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<tr>
<td>6:30pm</td>
<td>Drinks and Museum Tour</td>
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<tr>
<td>8:00</td>
<td>Neuromodulation and Cognition: The Final Frontier • Jonathan Miller, MD and Cameron McIntyre, MD</td>
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## Disclosure Policy

The policy of the Case Western Reserve University School of Medicine CME Program (CWRU) requires that the Activity Director, planning committee members and all activity faculty (that is, anyone in a position to control the content of the education activity) disclose to the activity participants all relevant financial relationships with commercial interests.Disclosure will be made to activity participants prior to the commencement of the activity. CWRU also requires that faculty make clinical recommendations based on the best available scientific evidence and that faculty identify any discussion of “off-label” or investigational use of pharmaceutical products or medical devices.

## Program Agenda

### Saturday, October 26

<table>
<thead>
<tr>
<th>Time</th>
<th>Session Title</th>
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<tbody>
<tr>
<td>8:00 – 8:30am</td>
<td>Continental Breakfast</td>
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<tr>
<td>8:30 – 9:00</td>
<td><strong>Therapeutic and Diagnostic Horizons</strong></td>
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<td><em>Chair: Robert Petersen, PhD</em></td>
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<tr>
<td>9:00 – 9:30</td>
<td>Advances in Alzheimer’s Disease Clinical Trials</td>
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<td><em>Jeffrey Cummings, MD</em></td>
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<tr>
<td>9:30 – 10:00</td>
<td>Targeting Nuclear Receptors to Modify Disease Pathogenesis</td>
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<td><em>Gary Landreth, PhD</em></td>
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<tr>
<td>10:00 – 10:15</td>
<td>Predictive Testing for Dementia • <em>Curtis Tatsuoka, PhD</em></td>
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<td>10:15 – 10:45</td>
<td>Dementia Prevention Through Blood Pressure Control:</td>
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<td>SPRINT and SPRINT-MIND • <em>Alan Lerner, MD</em></td>
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<tr>
<td>10:45 – 11:15</td>
<td>Self-Management Clinical Trials Involving Adults with</td>
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<td>Neuropsychiatric Disorders • <em>Martha Sajatovic, MD</em></td>
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<tr>
<td>11:15 – 11:45</td>
<td>Molecular Imaging of Myelin in the Central Nervous System</td>
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<td><em>Yanming Wang, PhD</em></td>
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<td>11:45 – 1:00pm</td>
<td>Lunch</td>
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### New Paradigms in Brain Health

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<tr>
<th>Time</th>
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<tr>
<td>1:00 – 1:30</td>
<td>Developing Wisdom to Offset Aging: Brain Imaging Reveals</td>
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<td>Mechanisms of Stress, Inoculation, Empathy and Healthy Aging</td>
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<td><em>Anthony Jack, PhD</em></td>
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<tr>
<td>1:30 – 2:00</td>
<td>Coaching and Vision as Therapeutic Tools</td>
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<td><em>Richard Boyatzis, PhD</em></td>
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<tr>
<td>2:00 – 2:30</td>
<td>Learning as Treatment in Alzheimer’s Disease:</td>
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<td>Lessons from Montessori and Neuroscience</td>
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<td><em>Cameron Camp, PhD</em></td>
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<td>2:30 – 3:00</td>
<td>Brain Health: Untangling an Unfolding Process</td>
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<td><em>Peter Whitehouse, MD, PhD</em></td>
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<tr>
<td>3:00 – 3:30</td>
<td>On the Threshold of a New Age in Brain Fitness</td>
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<td><em>William Reichman, MD</em></td>
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General Information

Meeting Location and Parking
Iris S. and Bert L. Wolstein Research Building
Case Western Reserve University
2103 Cornell Road
Cleveland, OH 44106

Parking is available in the Health Sciences Parking Garage, located under the Biomedical Research Building, accessible from both Cornell Road and Circle Drive; in the Rainbow Babies and Children’s Parking Garage on Adelbert Road; or in the University Hospitals Parking Garage located on University Hospitals Drive, just off of Euclid Avenue. You are responsible for your own parking charges.

Minimum system requirements for on-line participation:
- PC-based attendees: Intel® or faster processor for Windows® XP, Vista or Windows 7; 1GB of RAM recommended for Windows XP, Vista or Windows 7; Microsoft Internet Explorer 6 or later, Mozilla Firefox or Google Chrome
- Mac OS: 1.83 GHz Intel Core™ Duo or faster processor; Mac OS X, 1.5, 10.6 or 10.7.2 (Intel); 512 MB or RAM (1GB recommended); Mozilla Firefox, Apple Safari 4 or 5 or Google Chrome; Adobe Flash Player 10.1
- We recommend participants join on a broadband connection, hard-wired, and with at least 6 Mb/s downloadable internet speed.

Special Event at MOCA
Join us for a special evening at the Museum of Contemporary Art, 11400 Euclid Avenue. Tour the Museum and enjoy cocktails beginning at 6:30pm, followed by dinner and an educational program at 8:00pm. Parking is available in a public parking garage on Ford Road. You are responsible for your own parking charges.

Registration Information
On-site conference tuition includes all educational sessions, materials, continental breakfast and lunch each day. The MOCA event requires an additional fee of $50/person.

Cancellation Policy
Full refunds will be made for cancellations on or prior to October 14 only. Cancellations after October 14 but prior to October 21 require a cancellation fee of $25.00. No refunds will be made after October 21.

Accommodations:
A block of rooms has been reserved at the Courtyard by Marriott at University Circle, 2021 Cornell Road (phone (216) 791-5678; fax (216) 791-5342), for the nights of October 24 and 25, at the rate of $119/night (plus tax) for single or double occupancy. Our room block is limited and expires September 27, 2013. Make your reservation by calling 1-800-MARRIOTT and identifying yourself as being with CWRU-Brain Health Meeting group. Reservations are guaranteed by each individual and a deposit of one night’s rate, plus tax, is required.
www.marriott.com/clece

Acknowledgments
This symposium will be supported by grants from industry. A complete listing of supporters will be provided in the syllabus materials distributed at the meeting. Acceptance of funding in support of this symposium does not constitute endorsement of any product or manufacturer.
Registration Form
From Neurodegeneration to Brain Health: An Integrated Approach / CID 2455

How to Register
Mail this registration form with your check or credit card number to:
Registrar, CME Program
Case Western Reserve University
10524 Euclid Avenue
Cleveland, OH 44106-6026

Register online with a credit card at http://casemed.case.edu/cme

Fax this form with your credit card number to (216) 844-8133

Telephone (216) 983-1239 or (800) 274-8263 with the information requested below and your credit card number

Name ____________________________
First          Last
Degree(s) ____________________________________________
SSN (last 4 digits) ____ ____ ____ __
Business Phone _________________________________
Street Address ________________________________________
City/State ______________________ Zip ________________
Email ________________________________

Conference Tuition:

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<tr>
<th>On-site</th>
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<tr>
<td>Physician $145</td>
<td>Physician $95</td>
</tr>
<tr>
<td>Allied Health $125</td>
<td>Allied Health $75</td>
</tr>
<tr>
<td>Resident/Fellow $75</td>
<td>Resident/Fellow $25</td>
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<tr>
<td>MOCA Event $50/person</td>
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TOTAL AMOUNT ENCLOSED OR TO BE CHARGED: $ __________

☐ Enclosed is my check payable to Case Western Reserve University

Charge my: ☐ Visa  ☐ MasterCard  ☐ Discover

Card # ________________________________
Expiration Date ___________________________
Signature ________________________________
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