2010 Heart-Brain Summit
Hosted by the Earl and Doris Bakken Heart-Brain Institute and Cleveland Clinic Lou Ruvo Center for Brain Health

September 23 - 24, 2010
Cleveland Clinic
Lou Ruvo Center for Brain Health
Las Vegas, Nevada

www.ccfcme.org/heartbrain10

For more information please visit www.ccfcme.org/heartbrain10 or call Jamie Belkin Events at 216.932.3448.
Course Overview

The Heart-Brain connection is currently a topic of great interest to researchers from multiple disciplines. We now have scientific evidence from more than 100 studies showing stress and depression are prevalent in populations with cardiovascular disease, are predictive of developing cardiovascular disease and are predictive of adverse outcomes among patients with existing cardiac disease.

Understanding the relationship between depression and heart disease is critical. Furthering our understanding of this physiology could lead to a better understanding of many other chronic diseases and the development of novel therapies resulting in improved patient outcomes. Several lines of evidence suggest that in depth investigation in the area of heart-brain medicine will yield significant results.

The purpose of this Summit is to obtain insights from key opinion leaders to increase our understanding of these heart-brain interactions and hear updates in the field. Health care professionals will learn of recent discoveries that relate to new treatments for cardiovascular and nervous system disorders and assess their implications for clinical practice.

Learning Objectives

After completing this activity, the participant will be able to do the following:

- Describe the link between depression and coronary artery disease and recognize the adverse outcomes associated with this relationship.
- Debate the need for clinical trials to study the relationship between depression and heart disease.
- Cite the recent literature and current research in heart-brain interactions and discuss potential implications for clinical practice.
- Describe depression and inflammatory signaling in Alzheimer’s disease.
- Discuss the state of research and innovation in heart-brain medicine.
- Implement heart-brain medicine practices with biofeedback and device-based therapies.
- Discuss new insights into how parasympathetic activation affects disease progression and clinical outcomes.

Abstract Submission

Deadline: August 23, 2010

The Heart-Brain Summit invites you to submit abstracts of original investigation for consideration in the Poster Session. Abstracts previously presented at other national or international meetings will be accepted. Accepted abstracts will be printed in the syllabus. Notification of acceptance will be no later than September 6, 2010.

Submission Instructions

Abstracts must be submitted by e-mail to mavi@jamiebelkin.com. The one page abstract should be submitted as a Microsoft Word attachment using no smaller than an 11pt font size. There is no limit to the number of abstracts a presenter can submit.

Style Instructions

- Figures, graphs and simple tables are allowed.
- Use of standard abbreviations is desirable; place unusual abbreviations in parentheses after first use of the full term.

Target Audience

The 2009 Heart-Brain conference in Chicago, Illinois, had 170 attendees representing 21 states and 3 countries in the following fields:

- Cardiology
- Neurology
- Psychiatry
- Psychology
- Basic and Clinical Research
- Nursing
- Biomedical Engineering

Poster Presentations

If your abstract is accepted, the presenter will be required to complete a Financial Relationship Disclosure Form per the Accreditation Council for Continuing Medical Education’s (ACCME) Standards for Commercial Support and CCF’s CME Policy 05-01. Your acceptance notice will indicate your poster assignment number. Each poster board measures 4’ high (121cm) and 6’ wide (138cm); you must provide a copy of the abstract, typed in large type for posting on the board. Illustrations must be readable from distances of at least three feet. Use lightweight poster board only; heavy board is difficult to secure. Push pins will be available on-site.

Endorsed by:

Society for Heart Brain Medicine
Faculty Disclosure Information

The Cleveland Clinic Foundation Center for Continuing Education has implemented a policy to comply with the current Accreditation Council for Continuing Medical Education Standards for Commercial Support requiring resolution of all faculty conflicts of interest. Faculty declaring a relevant commercial interest will be identified in the activity syllabus.

Americans with Disabilities Act

The Cleveland Clinic Foundation Center for Continuing Education fully intends to comply with the legal requirements of the Americans with Disabilities Act. If you need assistance, please notify Mavi Golsmith at 216.932.3448 at least two weeks prior to the activity.

Accreditation

The Cleveland Clinic Foundation Center for Continuing Education is accredited by the Accreditation Council for Continuing Medical Education to provide continuing medical education for physicians.

The Cleveland Clinic Foundation Center for Continuing Education designates this educational activity for a maximum of 12.25 AMA PRA Category 1 Credits™. Physicians should only claim credit commensurate with the extent of their participation in the activity.

Participants claiming CME credit from this activity may submit the credit hours to the American Osteopathic Association Council on Continuing Medical Education for Category 2 credit.

Hotel Reservations

ENCORE at Wynn Las Vegas
3121 Las Vegas Boulevard South
Las Vegas, NV 89109
Toll Free: 888.320.7125

A block of rooms has been reserved at the Encore at Wynn Las Vegas until August 22, 2010. To confirm a reservation, please go to www.EncoreLasVegas.com (group code: 6CLE0910). You may contact the hotel directly at 702.770.8000 or toll free 888.320.7125. Please mention the Heart-Brain Summit-Cleveland Clinic to receive the special rate of $179.00 Single, September 22 and 23, 2010; and $199 Single, September 24 and 25, 2010, plus tax.

Information

For additional information on this course, please contact Mavi Golsmith at 216.932.3448 or email: mavi@jamiebelkin.com

Heart-Brain Summit Awards

Young Investigator Award

The Young Investigator Award competition is open to graduate students, postdoctoral fellows, residents, fellows and junior faculty within two years of their first appointment. Only original work, not previously presented elsewhere will be considered.

Please note your eligibility on your abstract submission. The four finalists will be required to complete the Financial Relationship Disclosure per the Accreditation Council for Continuing Medical Education’s (ACCME) Standards for Commercial Support and CCF’s Policy 05-0. Finalists will be invited to present their submission during a moderated session at the summit.

Pioneer Award and Lecture

The Pioneer Award is given in recognition of contributions fundamental to the development of heart-brain medicine. The award recognizes senior healthcare professionals who have had a major impact on the understanding of heart-brain pathophysiology, the consequences of heart-brain interactions for the health of humankind, and the innovative treatment of heart-brain disorders.

Meeting Location

Cleveland Clinic
Lou Ruvo Center for Brain Health
888 West Bonneville Avenue
Las Vegas, Nevada 89106
## Course Directors

**Marc S. Penn, MD, PhD**  
Director, Bakken Heart-Brain Institute  
Cleveland Clinic

**Jeffrey L. Cummings, MD**  
Director, Lou Ruvo Center for Brain Health  
Cleveland Clinic

**Katherine J. Hoercher, RN**  
Director, Bakken Heart-Brain Institute  
Cleveland Clinic

## Cleveland Clinic Faculty

- Kamal Chemali, MD  
- Jeffrey L. Cummings, MD  
- Paul Ford, PhD  
- A. Marc Gillinov, MD  
- Stephen E. Jones, MD, PhD  
- Michael G. McKee, PhD  
- Robert C. Barber, PhD  
- James A. Blumenthal, PhD  
- Paul Citron  
- Johan Denollet, PhD  
- M. Bridget Duffy, MD  
- Robert D. Foreman, PhD  
- Gary S. Francis, MD  
- Richard N. Gevirtz, PhD  
- Paula Grammas, PhD  
- Peter G. Katona, ScD  
- Mitchell W. Krucoff, MD  
- Laura D. Kubzansky, PhD  
- François Lespérance, MD  
- John C. Lopshire, MD, PhD  
- Facundo Manes, MD  
- Christopher Moore, PhD  
- Carmen V. Russoniello, PhD  
- Peter Shapiro, MD  
- Hani N. Sabbah, PhD  
- Michael R. Sperling, MD  
- Julian F. Thayer, PhD  
- Ralph Zitnik, MD

## Guest Faculty

- Robert C. Barber, PhD  
  UT Southwestern Medical Center  
  Dallas, TX

- James A. Blumenthal, PhD  
  Duke University  
  Durham, NC

- Paul Citron  
  New Brighton, MN

- Johan Denollet, PhD  
  Tilburg University  
  BELGIUM

- M. Bridget Duffy, MD  
  ExperiaHealth  
  San Francisco, CA

- Robert D. Foreman, PhD  
  University of Oklahoma  
  Oklahoma City, OK

- Gary S. Francis, MD  
  University of Minnesota Medical School  
  Minneapolis, MN

- Richard N. Gevirtz, PhD  
  California School of Professional Psychology  
  San Diego, CA

- Paula Grammas, PhD  
  Texas Tech University  
  Lubbock, TX

- Peter G. Katona, ScD  
  George Mason University  
  Great Falls, VA

- Mitchell W. Krucoff, MD  
  Duke University Medical Center  
  Durham, NC

- Laura D. Kubzansky, PhD  
  Harvard School of Public Health  
  Boston, MA

- François Lespérance, MD  
  Montreal Heart Institute  
  CANADA

- John C. Lopshire, MD, PhD  
  Indiana University School of Medicine  
  Indianapolis, IN

- Facundo Manes, MD  
  Favoloro Foundation  
  ARGENTINA

- Christopher Moore, PhD  
  Massachusetts Institute of Technology  
  Boston, MA

- Bruce L. Rollman, MD  
  University of Pittsburgh  
  Pittsburgh, PA

- Carmen V. Russoniello, PhD  
  East Carolina University  
  Greenville, NC

- Hani N. Sabbah, PhD  
  Henry Ford Health System  
  Detroit, MI

- Peter Shapiro, MD  
  Columbia University  
  New York, NY

- Michael R. Sperling, MD  
  Thomas Jefferson University  
  Philadelphia, PA

- Julian F. Thayer, PhD  
  The Ohio State University  
  Columbus, OH

- Ralph Zitnik, MD  
  SetPoint Medical  
  Santa Barbara, CA
<table>
<thead>
<tr>
<th>Time</th>
<th>Session/Activity</th>
<th>Speaker(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>8:20 am</td>
<td>Opening Remarks</td>
<td>Marc S. Penn MD, PhD</td>
</tr>
<tr>
<td>8:30 am</td>
<td>Collaborative Care for Treatment of Depression in Patients with Heart Disease</td>
<td>Bruce L. Rollman, MD, MPH</td>
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<tr>
<td>8:50 am</td>
<td>Personality: Impact on Heart Disease and Treatment</td>
<td>Johan Denollet, PhD</td>
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<tr>
<td>9:00 am</td>
<td>Pharmacologic Treatment of Depression and Heart Disease</td>
<td>Peter Shapiro, MD</td>
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<tr>
<td>9:30 am</td>
<td>Psychotherapy and Alternative Therapies of Treatment of Depression in Heart Disease</td>
<td>François Lespérance, MD</td>
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<tr>
<td>9:50 am</td>
<td>Break</td>
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<tr>
<td>10:10 am</td>
<td>Biofeedback in the Treatment of Heart Disease</td>
<td>Christine S. Moravec, PhD</td>
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<tr>
<td>10:30 am</td>
<td>What are the Ethics of Randomized Trials in Depression?</td>
<td>Paul Ford, PhD</td>
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<tr>
<td>10:50 am</td>
<td>Panel Discussion</td>
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<tr>
<td>11:10 am</td>
<td>Spinal Cord Stimulation for Heart Failure</td>
<td>John C. Lopshire, MD, PhD</td>
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<tr>
<td>11:30 am</td>
<td>Panel Discussion</td>
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<tr>
<td>11:50 am</td>
<td>Lunch</td>
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<tr>
<td>2:00 pm</td>
<td>Pioneer Lecture - Introduced by</td>
<td>Leopoldo Pozuelo, MD, James A. Blumenthal, PhD</td>
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<tr>
<td>2:30 pm</td>
<td>Abstract Presentations (10 minutes each)</td>
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<tr>
<td>3:00 pm</td>
<td>Break</td>
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<tr>
<td>3:30 pm</td>
<td>Session III: Young Investigator Competition</td>
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<tr>
<td>4:40 pm</td>
<td>Panel Discussion</td>
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<tr>
<td>5:00 pm</td>
<td>Poster Session &amp; Reception</td>
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<tr>
<td>3:40 pm</td>
<td>Depression as a Shared Risk Factor for CVD and Alzheimer's Disease</td>
<td>Dylan P. Wint, MD</td>
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<tr>
<td>4:00 pm</td>
<td>Pro Inflammatory Signalling in Alzheimer's Disease</td>
<td>Robert C. Barber, PhD</td>
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<tr>
<td>4:20 pm</td>
<td>Vascular Signaling Abnormalities in Alzheimer's Disease</td>
<td>Paula Grammas, PhD</td>
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<tr>
<td>4:40 pm</td>
<td>Panel Discussion</td>
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</table>

**Session I: Depression and Heart Disease**

**Session II: Device Based Therapies**

**Session III: Young Investigator Competition**
## Heart-Brain Summit Agenda

**Friday | September 24, 2010**

### Session V: Stress in Medicine

<table>
<thead>
<tr>
<th>Time</th>
<th>Topic</th>
<th>Speaker</th>
</tr>
</thead>
<tbody>
<tr>
<td>8:30 am</td>
<td>Caregiver Stress</td>
<td>Mitchell W. Krucoff, MD</td>
</tr>
<tr>
<td>8:50 am</td>
<td>Patient Stress</td>
<td>A. Marc Gillinov, MD</td>
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<tr>
<td>9:10 am</td>
<td>Clinician Stress</td>
<td>M. Bridget Duffy, MD</td>
</tr>
<tr>
<td>9:30 am</td>
<td>Biofeedback in the Treatment of Stress</td>
<td>Richard N. Gevirtz, PhD</td>
</tr>
<tr>
<td>9:50 am</td>
<td>Biofeedback for Extreme Stress: Wounded Warriors</td>
<td>Carmen V. Russoniello, PhD</td>
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<tr>
<td>10:10 am</td>
<td>Panel Discussion</td>
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<tr>
<td>10:30 am</td>
<td>Break</td>
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**Moderator:**
Michael G. McKee, PhD and Christine S. Moravec, PhD

### Session VI: Annual Review of Key Publications in Heart-Brain Medicine

<table>
<thead>
<tr>
<th>Time</th>
<th>Topic</th>
<th>Speaker</th>
</tr>
</thead>
<tbody>
<tr>
<td>10:50 am</td>
<td>Cardiovascular</td>
<td>Marc S. Penn, MD, PhD</td>
</tr>
<tr>
<td></td>
<td>Neuroscience</td>
<td>J. Javier Provencio, MD</td>
</tr>
<tr>
<td></td>
<td>Behavioral Medicine</td>
<td>Laura D. Kubzansky, PhD</td>
</tr>
<tr>
<td></td>
<td>Biomedical Engineering</td>
<td>Peter G. Katona, ScD</td>
</tr>
<tr>
<td>11:50 am</td>
<td>Presentation of the Young Investigator Award</td>
<td>Paul Citron</td>
</tr>
<tr>
<td>12:00 pm</td>
<td>Lunch</td>
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**Moderator:**
M. Bridget Duffy, MD

### Session VII: Novel Findings in Heart Brain Medicine

<table>
<thead>
<tr>
<th>Time</th>
<th>Topic</th>
<th>Speaker</th>
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<tr>
<td>1:15 pm</td>
<td>Neurocognitive Findings in Heart Failure Patients</td>
<td>Facundo Manes, MD</td>
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<tr>
<td>1:35 pm</td>
<td>Imaging for Autonomic Dysfunction</td>
<td>Stephen E. Jones, MD, PhD</td>
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<tr>
<td>1:55 pm</td>
<td>Sudden Unexplained Death in Epilepsy</td>
<td>Michael R. Sperling, MD</td>
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<tr>
<td>2:15 pm</td>
<td>Neurohormonal Control of Heart Failure</td>
<td>Gary S. Francis, MD</td>
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<tr>
<td>2:35 pm</td>
<td>The Hemo-Neural Hypothesis: How Blood Flow May Affect Neural Activity</td>
<td>Christopher Moore, PhD</td>
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<tr>
<td>2:55 pm</td>
<td>Panel Discussion</td>
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<tr>
<td>3:30 pm</td>
<td>Wrap up</td>
<td>Marc S. Penn, MD, PhD</td>
</tr>
<tr>
<td>4:00 pm</td>
<td>Adjourn</td>
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**Moderators:**
Julian F. Thayer, PhD and Kamal Chemali, MD
Heart-Brain Summit Registration

September 23-24, 2010
Cleveland Clinic Lou Ruvo Center for Brain Health – Las Vegas, Nevada

Registration/Cancellation Policy: The registration deadline is September 20, 2010. Please register on-site after September 20th. Refunds and cancellations are subject to a $50.00 service charge. A request for refund must be submitted in writing to mavi@jamiebelkin.com by September 20, 2010. No refunds will be issued after October 1, 2010.

<table>
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<tr>
<th>Fees</th>
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<tr>
<td>Physician/Scientist</td>
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<tr>
<td>Cleveland Clinic Alumni</td>
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<tr>
<td>Resident/Fellow/Nurse/Allied Health/Other</td>
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<tr>
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<tr>
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<tr>
<td>Cleveland Clinic Employee/Resident/Fellow/Nurse</td>
<td>$50</td>
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Registration fees include: attendance, syllabus, continental breakfasts, lunches and breaks and poster reception.

REGISTER ONLINE at www.ccfcme.org/heartbrain10
Once you register online, please do not mail or fax in a registration form.

Please Print

Last First M.I. Degree Initials

Company
Address
City State ZIP

Phone Number Fax Number

Specialty E-mail Address

☐ I will attend the Thursday, September 23, 2010, Poster Reception

Make check payable to: The Cleveland Clinic Educational Foundation
Or charge the following account:  ☐ Mastercard  ☐ Visa  ☐ Discover  ☐ American Express

Card Number Expiration Date

Signature (not valid without signature)  3-digit verification code (found on the back of the card)

Fax Number: 216.448.0783
Mailing Address: The Cleveland Clinic Educational Foundation
P.O. Box 931653 | Cleveland, Ohio 44193-1082
2010 Heart-Brain Summit
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Abstract Submission Deadline:
August 23, 2010

Research | Education | Patient Care