

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.ccfcm.org/heartbrain10](http://www.ccfcm.org/heartbrain10)

Research

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Education

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Patient Care

For more information please visit [www.ccfcm.org/heartbrain10](http://www.ccfcm.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.

## 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

Endorsed by:



## 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](mailto: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.

## 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.



# General Information

## 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.

## 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.

## 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*<sup>™</sup>. 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](http://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](mailto:mavi@jamiebelkin.com)



Cleveland Clinic  
Lou Ruvo Center for Brain Health

### 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

# 2010 Heart-Brain Summit

## 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

Christine S. Moravec, PhD

Marc S. Penn, MD, PhD

Leopoldo Pozuelo, MD

J. Javier Provencio, MD

Dylan P. Wint, 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

# Heart-Brain Summit Agenda

Thursday | September 23, 2010

8:20 am **Opening Remarks**  
Marc S. Penn MD, PhD

## Session I: Depression and Heart Disease

**Moderators:**  
Leopoldo Pozuelo, MD and  
Laura D. Kubzansky, PhD

8:30 am **Collaborative Care for Treatment of Depression in Patients with Heart Disease**  
Bruce L. Rollman, MD, MPH

8:50 am **Personality: Impact on Heart Disease and Treatment**  
Johan Denollet, PhD

9:10 am **Pharmacologic Treatment of Depression and Heart Disease**  
Peter Shapiro, MD

9:30 am **Psychotherapy and Alternative Therapies of Treatment of Depression in Heart Disease**  
François Lespérance, MD

9:50 am **Break**

10:10 am **Biofeedback in the Treatment of Heart Disease**  
Christine S. Moravec, PhD

10:30 am **What are the Ethics of Randomized Trials in Depression?**  
Paul Ford, PhD

10:50 am **Panel Discussion**

## Session II: Device Based Therapies

**Moderators:**  
Paul Citron and Robert D. Foreman, PhD

11:10 am **Electrical Vagus Nerve Stimulation for the Treatment of Chronic Heart Failure**  
Hani N. Sabbah, PhD

11:30 am **Neurostimulation of the Cholinergic Anti-inflammatory Pathway: Using Implantable Devices to Treat Systemic Inflammatory Diseases**  
Ralph Zitnik, MD

11:50 am **Spinal Cord Stimulation for Heart Failure**  
John C. Lopshire, MD, PhD

12:10 pm **Panel Discussion**

12:40 pm **Lunch**

2:00 pm **Pioneer Lecture - Introduced by Leopoldo Pozuelo, MD**  
James A. Blumenthal, PhD

## Session III: Young Investigator Competition

**Moderators:**  
J. Javier Provencio, MD and Paul Citron

2:30 pm **Abstract Presentations (10 minutes each)**

3:20 pm **Break**

## Session IV: Depression and Inflammatory Signaling in Alzheimer's Disease

**Moderator: Jeffrey L. Cummings, MD**

3:40 pm **Depression as a Shared Risk Factor for CVD and Alzheimer's Disease**  
Dylan P. Wint, MD

4:00 pm **Pro Inflammatory Signalling in Alzheimer's Disease and Depression**  
Robert C. Barber, PhD

4:20 pm **Vascular Signaling Abnormalities in Alzheimer's Disease**  
Paula Grammas, PhD

4:40 pm **Panel Discussion**

5:00 pm **Poster Session & Reception**

# Heart-Brain Summit Agenda

Friday | September 24, 2010

## Session V: Stress in Medicine

**Moderator:**  
Michael G. McKee, PhD and  
Christine S. Moravec, PhD

- 8:30 am **Caregiver Stress**  
Mitchell W. Krucoff, MD
- 8:50 am **Patient Stress**  
A. Marc Gillinov, MD
- 9:10 am **Clinician Stress**  
M. Bridget Duffy, MD
- 9:30 am **Biofeedback in the Treatment of Stress**  
Richard N. Gevirtz, PhD
- 9:50 am **Biofeedback for Extreme Stress:  
Wounded Warriors**  
Carmen V. Russoniello, PhD
- 10:10 am **Panel Discussion**
- 10:30 am **Break**

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

**Moderator:**  
M. Bridget Duffy, MD

- 10:50 am **Cardiovascular**  
Marc S. Penn, MD, PhD
- Neuroscience**  
J. Javier Provencio, MD
- Behavioral Medicine**  
Laura D. Kubzansky, PhD
- Biomedical Engineering**  
Peter G. Katona, ScD
- 11:50 am **Presentation of the Young Investigator Award**  
Paul Citron
- 12:00 pm **Lunch**

## Session VII: Novel Findings in Heart Brain Medicine

**Moderators:**  
Julian F. Thayer, PhD and  
Kamal Chemali, MD

- 1:15 pm **Neurocognitive Findings in Heart Failure Patients**  
Facundo Manes, MD
- 1:35 pm **Imaging for Autonomic Dysfunction**  
Stephen E. Jones, MD, PhD
- 1:55 pm **Sudden Unexplained Death in Epilepsy**  
Michael R. Sperling, MD
- 2:15 pm **Neurohormonal Control of Heart Failure**  
Gary S. Francis, MD
- 2:35 pm **The Hemo-Neural Hypothesis: How Blood Flow  
May Affect Neural Activity**  
Christopher Moore, PhD
- 2:55 pm **Panel Discussion**
- 3:30 pm **Wrap up**  
Marc S. Penn, MD, PhD
- 4:00 pm **Adjourn**

# Registration

## Heart-Brain Summit Registration

September 23-24, 2010

Cleveland Clinic Lou Ruvo Center for Brain Health – Las Vegas, Nevada

Course 020631 • Office Use Only

Fee \_\_\_\_\_ Date \_\_\_\_\_

M.O.P. \_\_\_\_\_ CXL/Fee \_\_\_\_\_

**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](mailto:mavi@jamiebelkin.com) by September 20, 2010. No refunds will be issued after October 1, 2010.

	Fees		Fees
<input type="checkbox"/> Physician/Scientist	\$300	<input type="checkbox"/> CCHS Physician	300
<input type="checkbox"/> Comprecare Affiliate	\$300	<input type="checkbox"/> CCHS Employee/Resident/Fellow/Nurse	\$150
<input type="checkbox"/> Cleveland Clinic Alumni	\$50	<input type="checkbox"/> Cleveland Clinic Physician	\$50
<input type="checkbox"/> Resident/Fellow/Nurse/Allied Health/Other	\$150	<input type="checkbox"/> Cleveland Clinic Employee/Resident/Fellow/Nurse	\$50

Registration fees include: attendance, syllabus, continental breakfasts, lunches and breaks and poster reception.

**REGISTER ONLINE at [www.ccfcm.org/heartbrain10](http://www.ccfcm.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  I require a vegetarian lunch.

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

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**Cleveland Clinic**

The Cleveland Clinic Foundation  
Bakken Heart Brain Institute  
9500 Euclid Avenue / JJ 40  
Cleveland, OH 44195

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**September 23 - 24, 2010**

Cleveland Clinic  
Lou Ruvo Center for Brain Health  
Las Vegas, Nevada

[www.ccfme.org/heartbrain10](http://www.ccfme.org/heartbrain10)



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Deadline:  
August 23, 2010**

Research | Education | Patient Care

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