

2008

Heart-Brain Summit

Hosted by the Earl and Doris Bakken Heart-Brain Institute at Cleveland Clinic



In cooperation with



Research

Education

Patient Care

June 4-5, 2008

InterContinental Hotel & Bank of America Conference Center

This year our dynamic program will offer interactive sessions for the practicing clinician and researcher including perspectives from industry leaders, an annual review of key papers and strategies for implementing heart-brain medicine.

Abstract submission is open to all researchers. Accepted abstracts will be included in a moderated poster session. Young investigators who submit abstracts will be eligible for the Young Investigators Award which is a competition open to graduate students, postdoctoral fellows, residents, fellows and junior faculty within two years of their first appointment.

For more information please visit www.ccfcmc.org/heartbrain08
or call 216.932.3448.

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Heart-Brain Institute at Cleveland Clinic



The Cleveland Clinic Foundation
Bakken Heart-Brain Institute
9500 Euclid Avenue / JJ40
Cleveland, OH 44195

June 4-5, 2008

InterContinental Hotel &
Bank of America Conference Center
Cleveland, Ohio

www.ccfme.org/heartbrain08



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David Goldstein, MD, PhD, Senior Investigator, National Institute of
Neurological Disorders and Stroke, National Institutes of Health

2008 Pioneer Award

Medicine, University of Pittsburgh

Patrick Kochanek, MD, Director of the Safar Center for Resuscitation
Research and a tenured Professor in the Department of Critical Care

2008 Bakken Award Lecture

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Course Overview

The **Heart-Brain connection** and interaction is a relatively unexplored science that is gaining interest among researchers from multiple disciplines. The purpose of the Summit is to bring this relationship to the forefront in order to stimulate and advance research and patient treatments in this important field of medicine.

Health care professionals will learn of recent discoveries and insight that relate to new treatments for cardiovascular and nervous system disorders. Importantly, cardiovascular, neurological and psychiatric conditions will be looked at in a different context.

Target Audience

- Cardiologists
- Neurologists
- Psychiatrists
- Psychologists
- Basic and clinical researchers
- Nurses and nurse practitioners
- Biomedical engineers

Abstract Submission

The Heart-Brain Summit invites you to submit abstracts of original investigation for consideration in the Poster Session. Accepted abstracts will be printed in the syllabus.

Deadline

Abstract submission must be received **no later than May 1, 2008**. Submitters will be notified via e-mail by May 15, 2008.

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.

Abstract 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, your acceptance notice will indicate your poster assignment number. Each poster board measures 4' high (121 cm) and 6' wide (138 cm). 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.

Grantor and Exhibitors

For information on grantor and exhibiting opportunities, please contact Laura Sears at 216.932.3448 or laura@jamiebelkin.com

Young Investigator Award

We are pleased to again offer the Bakken Heart-Brain Institute Young Investigator Research Award. The competition is open to graduate students, postdoctoral fellows, residents, fellows and junior faculty within two years of their first appointment.

Please note your eligibility on your abstract submission. The four finalists will be invited to present their submission during a moderated session at the summit.

Heart-Brain Summit Awards

Bakken Award and Lecture

The Bakken Award and Lecture is named in honor of Dr. Earl Bakken, developer of the first transistorized, battery operated wearable cardiac pacemaker, founder of Medtronic, Inc., and inspiration behind the evolution of the field of heart-brain medicine.

The Bakken Award recognizes an individual who has conducted innovative research that has a significant impact on the field of heart-brain medicine.

Pioneer Award

The Bakken Heart-Brain Pioneer Award is given in recognition of contributions fundamental to the development of the field of heart-brain medicine. Pioneer recipients are recognized 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.

The Cleveland Clinic Neurological Institute presents

Music and the Brain | Friday, June 6, 2008

This unique symposium will focus on the relationship between music and the physiological and pathological processes in the nervous system. It is aimed at educating physicians about this novel and unique field of "neuromusic" which studies the effect of music on the normal and abnormal physiology of the nervous system, treats certain neurological conditions using music as a therapeutic tool and treats the neurological consequences of misuse of music. It also aims at

educating physicians about the status of the research in the field of music and the brain. Last but not least, it puts a particular emphasis on the impact of musical performance on the audience, and explores its parallel with the physician's impact on the patient.

For more information, please visit the symposium website at www.ccfcm.org/music08 or contact Martha Tobin at tobinm@ccf.org, 216.445.3449 or 800.223.2273 x 53449.

General Information

Faculty Disclosure

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.

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 11.75 *AMA PRA Category 1 Credit(s)*[™]. Physicians should only claim credit commensurate with the extent of their participation in the activity.

This activity may be submitted for American Osteopathic Association Continuing Medical Education credit in Category 2.

Special Needs

If you have any special needs that require additional assistance, please contact Mavi Golsmith at 216.932.3448. Requests must be received at least two weeks prior to the start of the course.

Hotel Reservations

A block of rooms has been reserved at the InterContinental Hotel & Bank of America Conference Center, 9801 Carnegie Avenue. To make a reservation, contact the hotel directly at 216.707.4100 or toll free at 877.707.8999 or online at www.ichotelsgroup.com. Please mention the Heart-Brain Summit (Online code: Z41) to receive the special rate of \$189.00 per night, plus tax.

Summit Registration/ Refund Policy

General registration deadline is **May 30, 2008**. You can register online at www.ccfcmec.org/heartbrain08 or use the attached registration form and fax to 216.445.9406. Please register on site after May 20th. Refunds for cancellations are subject to a \$50 service charge. A request for a refund must be received in writing by May 30, 2008. No refunds will be given after June 5, 2008.

For Additional Information

Mavi Golsmith
Phone: 216.932.3448
Fax: 216.932.0444
Email: mavi@jamiebelkin.com

Directions

Construction for the Euclid Corridor Transportation Project – which will connect Cleveland's central business district with the University Circle area, as well as cultural, medical and educational districts – is now under way at Cleveland Clinic.

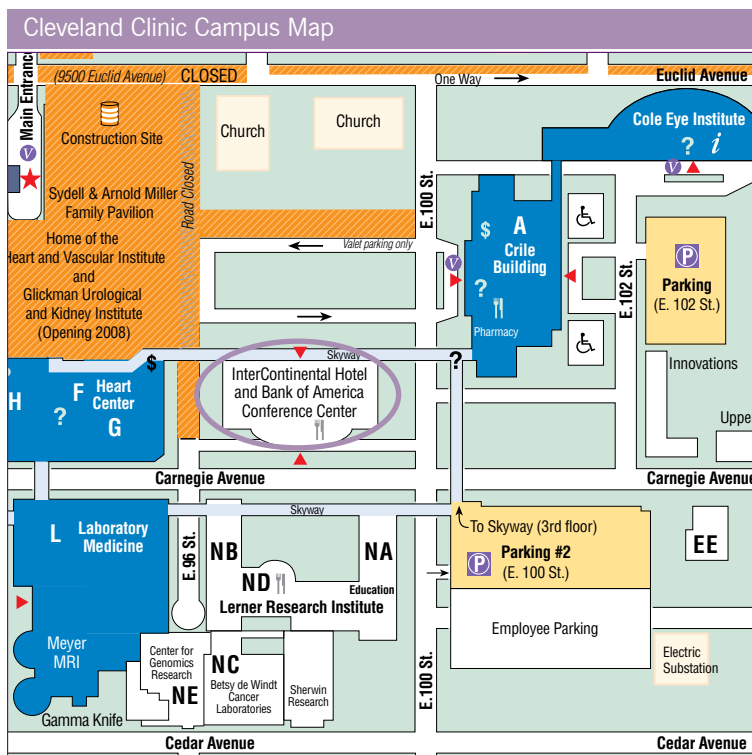
Traffic Changes

- Segments of Euclid Avenue between East 87th and East 107th streets are limited to one-way travel.
- Euclid Avenue is completely closed to vehicular traffic between East 89th and East 97th streets.
- Effective through summer 2008

Alternate Routes

Maps and directions are available at www.ClevelandClinic.org

Call the automated directions line at 216.444.9500.



2008 Heart-Brain Summit

Course Objectives

Upon completion of this activity, the participant will be able to:

- Define the field of heart-brain medicine
- Review current research and literature about heart-brain interactions
- Describe pathways involved in neuromodulation in coronary artery disease
- Describe measures and strategies for modulation of heart-brain interactions
- Discuss the basic mechanism of neuromodulation of cardiac function
- Review practices for implementing heart-brain medicine.

Course Directors

Marc Penn, MD, PhD, FACC
Director, Bakken Heart-Brain Institute
Cleveland Clinic

Mark Dunlap, MD
President, Society of Heart-Brain Medicine
MetroHealth Medical Center

Cleveland Clinic Faculty

M. Bridget Duffy, MD
A. Marc Gillinov, MD
Andre Machado, MD, PhD
Christine Moravec, PhD
Imad Najm, MD

Zoran Popovic, MD
Leopoldo Pozuelo, MD
J. Javier Provencio, MD
Robert Shields, MD
Roy Silverstein, MD

Guest Faculty

Robert Carney, PhD
*Washington University School of Medicine
St. Louis, MO*

Paul Citron, PhD
New Brighton, MN

Michael De Jongste, MD
*University of Groningen
The Netherlands*

Jone Flanders, DO, FACC
*North Hawaii Community Hospital
Kamuela, HI*

Robert Foreman, MD, PhD
*University of Oklahoma
Oklahoma, OK*

David Goldstein, MD, PhD
*National Institute of Neurological
Disorders and Stroke
Bethesda, MD*

Patrick Kochanek, MD
*University of Pittsburgh
Pittsburgh, PA*

Laura Kubzansky, PhD
*Harvard School of Public Health
Boston, MA*

Michael Lauer, MD
*National Heart, Lung, and Blood Institute
Bethesda, MD*

Chris Moore, MD, PhD
*Massachusetts Institute of Technology
Cambridge, MA*

Stephen Porges, PhD
*University of Illinois
Chicago, IL*

Owen Samuels, MD
*The Emory Clinic
Atlanta, GA*

Julian Thayer, PhD
*The Ohio State University
Columbus, OH*

Heart-Brain Summit Agenda

Wednesday | June 4

8:15-8:30 a.m. **Opening Remarks**
Marc Penn, MD, PhD, FACC
Cleveland Clinic

8:30-9:20 a.m. **Bakken Lecture**
Patrick Kochanek, MD
University of Pittsburgh

Session I: Pathways Involved in Neuromodulation of Risks in Coronary Artery Disease

Moderated by:

Julian Thayer, PhD
The Ohio State University

9:20-11:15 a.m. **The Effect of Depression on Heart Rate Variability**
Robert Carney, PhD
Washington University School of Medicine

Vagal Tone and Outcomes in Patients with Cardiovascular Disease
Michael Lauer, MD
National Heart, Lung, and Blood Institute

10:20-10:35 a.m. **Break**

Vagal Tone and the Inflammatory Reflex
Julian Thayer, PhD
The Ohio State University

Inflammation, Coronary Artery Disease and Plaque Rupture
Roy Silverstein, MD
Cleveland Clinic

11:15-12:00 p.m. **Young Investigator Presentation**

12:00-1:15 p.m. **Lunch**
Pioneer Award
David Goldstein, MD, PhD
National Institute of Neurological Disorders and Stroke

Session II: Measures and Strategies for Modulation of Heart-Brain Interactions

Moderated by:

J. Javier Provencio MD
Cleveland Clinic

1:15-3:30 p.m. **Vagal Nerve Stimulation**
Imad Najm, MD
Cleveland Clinic

Heart Rate Variability
Robert Shields, MD
Cleveland Clinic

Deep Brain Stimulation
Andre Machado, MD, PhD
Cleveland Clinic

Invasive Hemodynamic Monitoring
Zoran Popovic, MD
Cleveland Clinic

Basic Research Models to Study Underlying Mechanisms of Electrical Neuromodulation
Michael De Jongste, MD
University of Groningen

3:30-4:30 p.m. **Society of Heart-Brain Medicine Meeting**

5:30-7:00 p.m. **Poster Session**
Shoreby Club

7:00-8:30 p.m. **Dinner**
Shoreby Club

Thursday | June 5

8:00-8:10 a.m. **Opening Remarks**
Marc Penn, MD, PhD, FACC
Cleveland Clinic
Mark Dunlap, MD
MetroHealth Medical Center

Session III: Annual Review of Key Papers in Heart-Brain Medicine

Moderated by:

Mark Dunlap, MD
MetroHealth Medical Center

Christine Moravec, PhD
Cleveland Clinic

8:10-10:00 a.m. **Neuroscience**
Behavioral Medicine
Cardiovascular
Biomedical Engineering

10:00-10:20 a.m. **Break**

Session IV: Code Lavender – Strategies for Implementing Heart-Brain Medicine

Moderated by:

M. Bridget Duffy, MD
Cleveland Clinic

Leopoldo Pozuelo, MD
Cleveland Clinic

10:20-12:15 p.m. **The Role of Environment in Family Centered Care**
Owen Samuels, MD
The Emory Clinic
Healing Solutions for Cardiovascular Patients
A. Marc Gillinov, MD
Cleveland Clinic

Post Traumatic Stress Disorder and Increased Risk of Coronary Heart Disease
Laura Kubzansky, PhD
Harvard School of Public Health

Designing a Healing Environment
Jone Flanders, DO, FACC
North Hawaii Community Hospital

12:15-1:45 p.m. **Lunch**
Young Investigator Award Presentation
Paul Citron, PhD

Session V: Insights into Neuromodulation of Cardiovascular Function

Moderated by:

TBD

1:45-4:40 p.m. Robert Foreman, MD, PhD
University of Oklahoma
Marc Penn, MD, PhD, FACC
Cleveland Clinic
Chris Moore, MD, PhD
Massachusetts Institute of Technology
Stephen Porges, PhD
University of Illinois

Industry Perspective
TBD

4:40-4:50 p.m. **Wrap Up**
Marc Penn, MD, PhD, FACC
Cleveland Clinic

Adjourn

Registration

Course 020477 • Office Use Only

Fee _____ Date _____

M.O.P. _____ CXL/Fee _____

Heart-Brain Summit Registration

June 4-5, 2008

InterContinental Hotel & Bank of America Conference Center

	Before May 1st		After May 1st	
	Full Congress	Per Day Fee	Full Congress	Per Day Fee
<input type="checkbox"/> Physician	\$395	\$207.50	\$495	\$250
<input type="checkbox"/> Society of Heart-Brain Medicine Member	\$370	\$182.50	\$470	\$225
<input type="checkbox"/> Comprecare Affiliate (ID# _____)	\$257	\$135	\$325	\$165
<input type="checkbox"/> Cleveland Clinic Health System Physicians Organization	\$237	\$125	\$225	\$125
<input type="checkbox"/> Cleveland Clinic Alumnus	\$150	\$80	\$225	\$125
<input type="checkbox"/> Resident*/Fellow*/Nurse/PhD/Other	\$150	\$80	\$200	\$125

*Letter from program director must be received in our office prior to the Summit to receive this fee for resident or fellow.

Registration fees include: attendance, syllabus, continental breakfasts, lunches and breaks and Wednesday reception/dinner.

Register online at www.ccfcm.org/heartbrain08

Once you register online, please do not mail or fax in a registration form. CCF main campus, family health centers, and CCHS community hospital employees (physicians and non-physicians) should register online at the above web address.

Please Print

Last _____ First _____ M.I. _____ Degree Initials _____

Affiliation _____

Address _____

City _____ State _____ ZIP _____

Phone Number _____ Fax Number _____

Specialty _____ E-mail Address _____

- I will be attending Wednesday Reception / Dinner
 Guest will be attending Wednesday Reception / Dinner
(Fee is \$65, \$75 after May 1st)

I will be attending (indicate which days):

- Full Summit (2 days) Wednesday only Thursday only

Total Amount Enclosed \$ _____

Total amount enclosed or to be charged \$ _____

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 number (found on the back of the card) _____

Fax Number: 216.445.9406

Mailing Address:

The Cleveland Clinic Educational Foundation
P.O. Box 931653 | Cleveland, Ohio 44193-1082