



Fifth Annual
**Selected Topics in Neuroplastic
& Reconstructive Surgery:**

*An International Symposium on Cranioplasty and
Implantable Neurotechnology with Cadaver Lab*

Presented by:

Department of Plastic-Reconstructive Surgery
& Department of Neurosurgery
Section of Neuroplastic & Reconstructive Surgery
Johns Hopkins University School of Medicine



Jointly Provided by:

Society of Neuroplastic Surgery

November 2-3, 2019

General Session – November 2

The Rotunda
Joseph B. Martin Conference Center
at Harvard Medical School
Boston, Massachusetts

Hands-on Lab – November 3

Boston Bioskills Lab
Boston, Massachusetts

**NEW
THIS YEAR!
Oral Abstract
Session**

This activity endorsed by:

American Society of Maxillofacial Surgeons
American Society of Plastic Surgeons
Congress of Neurological Surgeons
Global Neuro
Society of Neuroplastic Surgery

This activity has been approved for *AMA PRA Category 1 Credits™*.



JOHNS HOPKINS
MEDICINE

DESCRIPTION

Modern-day cranioplasty, along with the burgeoning field of Neuroplastic and Reconstructive Surgery, is undergoing a significant paradigm shift related to various techniques, surgical advancements, implantable neurotechnology, and improved biomaterials. These changes have stimulated us to assemble premier thought leaders in various specialties including neurosurgery, neuroplastic surgery, craniofacial surgery, and plastic surgery to meet for the FIFTH annual symposium dedicated to the subjects of “cranioplasty”, “implantable neurotechnology”, and “neuroplastic surgery”—to be hosted this year at the Joseph B. Martin Conference Center at Harvard Medical School in Boston, Massachusetts. The faculty will gather to present evidence-based data on surgical approaches and state-of-the-art materials, engage and network within a broad array of colleagues and experts, and share high-yield experiences to help attendees improve their patient outcomes. Interactive panel discussions following each lecture will offer the opportunity to debate the evidence, exchange ideas, and gain invaluable insight to assist with the most challenging cases. This year’s symposium, along with an included abstract session, will engage an international faculty and audience consisting of neurosurgery, neuroplastic surgery, craniofacial surgery, plastic/reconstructive surgery, oral/maxillofacial surgery, biomedical engineering, neurology and neuro-oncology, to explore and elucidate the new insights and advances relative to skull reconstruction, cranial implants, and groundbreaking neurotechnologies.

WHO SHOULD ATTEND

This activity is intended for residents, fellows and physicians in Neurosurgery, Neuroplastic and Reconstructive Surgery, Craniofacial Surgery, Plastic and Reconstructive Surgery, Otolaryngology—Head and Neck Surgery, Oral Maxillofacial Surgery and Biomedical Engineering.

OBJECTIVES

After attending this activity, the participant will demonstrate the ability to:

- Create a cranioplasty reconstruction management plan with or without implants, from peri- to postprocedural care.
- Discuss recent advances in cranioplasty, implantable neurotechnology, and neuro-cranial reconstruction, and how you may incorporate them into your practice.
- Translate cranioplasty and implantable neurotechnology research findings to improved outcomes based on recent evidence based literature.
- Employ cooperative learning to analyze practice barriers and apply appropriate solutions.

ACCREDITATION STATEMENT

The Johns Hopkins University School of Medicine is accredited by the Accreditation Council for Continuing Medical Education (ACCME) to provide continuing medical education for physicians.



CREDIT DESIGNATION STATEMENT

The Johns Hopkins 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.

CREDITS

American Nurses Credentialing Center (ANCC) accepts *AMA PRA Category 1 Credits™* from organizations accredited by the ACCME.

American Academy of Nurse Practitioners National Certification Program accepts *AMA PRA Category 1 Credits™* from organizations accredited by the ACCME.

National Commission on Certification of Physician Assistants (NCCPA)
PAs may claim a maximum of 13.50 Category 1 credits for completing this activity.
NCCPA accepts *AMA PRA Category 1 Credits™* from organizations accredited by ACCME or a recognized state medical society.

This activity endorsed by:



POLICY ON SPEAKER AND PROVIDER DISCLOSURE

It is the policy of the Johns Hopkins University School of Medicine that the speaker and provider globally disclose conflicts of interest. The Johns Hopkins University School of Medicine OCME has established policies that will identify and resolve conflicts of interest prior to this educational activity. Detailed disclosure will be made prior to presentation of the education.

GENERAL INFORMATION

REGISTRATION

Saturday, November 2, 2019 • 6:00 – 7:00 a.m.

LOCATION

The Rotunda

Joseph B. Martin Conference Center at Harvard Medical School
77 Avenue Louis Pasteur
Boston, Massachusetts 02115

Johns Hopkins University is not affiliated with Harvard University, nor is this CME course hosted as a Harvard University program or activity.

Boston Bioskills Lab

27 Drydock Avenue
Boston, Massachusetts 02110

FEES

REGISTRATION CUT-OFF DATE: October 27, 2019

Register Online at: hopkinscme.cloud-cme.com/aph.aspx?P=5&EID=18099

Methods of Payment: We require full payment prior to the start of the activity. Payment by check or credit card must accompany the registration form prior to the activity. The registration fee includes instructional materials, continental breakfasts, refreshment breaks and lunches.

	Before September 1	After September 1
Physician – Saturday, November 2nd only	\$420	\$495
Physician – Sunday, November 3rd only	\$645	\$750
Physician – Saturday and Sunday	\$1,075	\$1,200
Residents*/Fellows*/Allied Health Professionals– Saturday, November 2nd only	\$85	\$95
Residents*/Fellows*/Allied Health Professionals– Sunday, November 3rd only	\$90	\$100
Residents*/Fellows*/Allied Health Professionals– Saturday and Sunday	\$170	\$190

**with verification of status*

You will receive a confirmation by e-mail. If you have not received it by October 27, 2019, call (410) 502-9636 to confirm that you are registered. A transcript of attendance will be available upon attestation of your credit hours and submission of the post activity online evaluation.

The Johns Hopkins University reserves the right to cancel or postpone any activity due to unforeseen circumstances. In this event, the University will refund the registration fee but is not responsible for travel expenses. Additionally, we reserve the right to change the venue to a comparable venue. Under such circumstances registrants will be notified as soon as possible.

ABSTRACT SUBMISSION

Award presentation for best abstract.

Submit your abstract by August 1st at

<https://hopkinscme.cloud-cme.com/aph.aspx?P=5&EID=18099>

LATE FEE AND REFUND POLICY

A \$50 late fee applies to registrations received after 5:00 p.m. ET on October 27, 2019. A handling fee of \$50 will be deducted for cancellation. An additional fee may apply for cancellation of other events, including workshops and social activities. Refund requests must be received by fax or mail by October 27, 2019. No refunds will be made thereafter. Transfer of registration to another Johns Hopkins activity in lieu of cancellation is not possible.

SYLLABUS

The syllabus will be accessible online and via your mobile device in the CloudCME App prior to the activity.

HOW TO OBTAIN CREDIT

Post activity, an online evaluation will be available to attendees to evaluate the activity and individual presentations and to identify future educational needs. Upon completion of the evaluation, the learner must attest to the number of hours in attendance. Credits earned will be added to the learner's transcript and immediately available for print. **The last day to access the evaluation and attest to your credits is December 17, 2019.**

An outcome survey will be sent to all physician attendees within two months post activity to assist us in determining what impact this activity had on the learner's practice.

EMERGENCY CALLS

On November 2, 2019 direct emergency calls to the Hopkins registration desk, (617) 432-8990. On November 3, 2019 direct emergency calls to the Hopkins registration desk, (617) 409-7400. Messages will be posted for participants.

AMERICANS WITH DISABILITIES ACT

The Johns Hopkins University School of Medicine fully complies with the legal requirements of the ADA and the rules and regulations thereof. Please notify us if you have any special needs.

To Register or For Further Information

Register Online (credit card and eCheck)

hopkinscme.cloud-cme.com/aph.aspx?P=5&EID=18099

Register by Phone (credit card only).....(410) 502-9636

Register by Fax(866) 510-7088

Confirmation/Certificates.....(410) 502-9636

General Information.....(410) 955-2959

E-mail the Office of CMEcmenet@jhmi.edu

Follow us on Twitter: twitter.com/HopkinsCME

Facebook: facebook.com/HopkinsCME

CloudCME 

Check out our mobile app CloudCME.

Organization Code: HopkinsCME

PROGRAM

SATURDAY, NOVEMBER 2, 2019

- 6:00 – 7:00 Registration and Continental Breakfast
7:00 – 7:10 **Welcome and Conference Goals**
Chad Gordon, DO, FACS
7:10 – 7:20 **Opening Remarks**
Paul Manson, MD
7:20 – 7:30 **Chairman's Welcome**
Henry Brem, MD and Bob Carter, MD, PhD
7:30 – 7:45 **Patient Experience with Neuroplastic Surgery**

Five minutes for Q&A have been incorporated into the program

Session 1: Discovery and Innovation in Neurotechnology

Moderators: Jaishri Blakeley, MD, William Curry, MD, and John Laterra, MD, PhD

- 7:45 – 7:55 **Precision Medicine for Brain Tumors: Genomics as a Tool**
Priscilla Brastianos, MD
8:00 – 8:10 **Ultrasound Modulation of Blood-Brain Barrier**
Chetan Bettegodwa, MD, PhD
8:15 – 8:25 **Neuromodulation for Stroke Recovery**
Andre Machado, MD, PhD
8:30 – 8:40 **Sonolucent Cranial Implants**
Andrea Machnitz, MD
8:45 – 8:55 **Intracranial Ultrasound (IUS)**
Netanel Ben-Shalom, MD
9:00 – 9:15 Refreshment Break
9:15 – 9:25 **Targeting Brain Cancer Stem Cells with mRNA Therapeutics**
Hernando Lopez-Bartoni, MD
9:30 – 9:40 **Nanoparticles for CNS Therapeutics**
Jordan Green, PhD
9:45 – 9:55 **Local Therapeutic Delivery in Brain Tumor Management**
Jon Weingart, MD
10:00 – 10:10 **Functional Cranial Implants with Power**
Chad Gordon, DO, FACS
10:15 – 10:45 **Fifth Annual Keynote Lectureship:
Current Developments and Future Options
for State-of-the-Art Brain Tumor Management**
Bob Carter, MD, PhD

Session 2: Functional Neurosurgery and Cranial Implants

Moderators: Gregory Bergey, MD, Pablo Celnik, MD, and Michael Yaremchuk, MD

- 10:45 – 10:55 **Brain-Computer Interfacing**
Nathan Crone, MD
11:00 – 11:10 **Braingate Neural Interface System**
Leigh Hochberg, MD, PhD
11:15 – 11:25 **Bilateral Neurostimulation for Quadriplegia**
William S. Anderson, MD, PhD
11:30 – 11:40 **Advances in Intracranial Technology for Epilepsy**
Dennis Spencer, MD
11:45 – 11:55 **Neuromodulation for Epilepsy**
Ziv Williams, MD
12:00 – 12:10 **Laser Thermal Ablation for Epilepsy**
Mark Richardson, MD
12:15 – 12:25 **Focused Ultrasound for Movement Disorders**
Graeme Woodworth, MD, FACS
12:30 – 1:00 Lunch

Session 3: Neurotechnology and Hydrocephalus

Moderators: Eric Arnaud, MD, Jay Loeffler, MD, and Paul Manson, MD

- 1:00 – 1:10 **Neural Interfacing via Transparent Polymer Skulls**
Suhasa Kodandaramaiah, PhD
1:15 – 1:25 **Skin Sensing for Hydrocephalus Management**
Matthew Potts, MD
1:30 – 1:40 **Improving Outcomes with Hydrocephalus Shunts**
Mark Luciano, MD, PhD
1:45 – 1:55 **Updates in Optogenetics for Neuromodulation**
Ed Boyden, PhD

- 2:00 – 2:10 **How to Integrate Neurotechnology Development with Neuroscience Delivery**
Erol Veznedaroglu, MD
- 2:15 – 2:30 Refreshment Break

Session 4: Pediatric Neurocranial Reconstruction and Neurotrauma

Moderators: Richard Redett, III, MD, Jesse Taylor, MD, and Nicholas Theodore, MD

- 2:30 – 2:40 **Monobloc and LeFort Advancements**
Anand Kumar, MD, FACS, FAAP
- 2:45 – 2:55 **Craniosynostosis and Pediatric Cranioplasty**
Peter Taub, MD
- 3:00 – 3:10 **Management of Civilian Neurotrauma**
Bizhan Aarabi, MD
- 3:15 – 3:25 **Managing Neurotrauma on the Battlefield**
Albert Schuette, MD
- 3:30 – 3:40 **Considerations in the Military Cranioplasty**
Gabriel Santiago, MD
- 3:45 – 3:55 **Scalp Expansion for Burn Patients**
Matthias Donelan, MD

Session 5: Neuroplastic Surgery and Cranial Implants

Moderators: Branko Bojovic, MD, Kevin Emerick, MD, and Mutaz Habal, MD

- 4:00 – 4:10 **Migraine Surgery for Neuropathic Pain**
William Austen, Jr., MD
- 4:15 – 4:25 **3D Printing of Cranial Implants**
Peter Liacouras, PhD
- 4:30 – 4:40 **The Cranium and its Golden Rule**
Rafael Tamargo, MD
- 4:45 – 5:15 **Oral Abstract Presentations**
Moderator: Judy Huang, MD and William Hoffman, MD
- 5:15 – 5:30 **Closing Remarks**
Chad Gordon, DO, FACS

SUNDAY, NOVEMBER 3, 2019

LAB

- 7:00 – 7:45 Registration and Continental Breakfast
- 7:45 – 7:55 **Welcome and Faculty Overview**
Chad Gordon, DO, FACS
- 8:00 – 9:45 **Session I: Neurosurgical Approaches to the Craniofacial Skeleton**
1. Burr hole for Ventriculostomy Placement
 2. Pterional Craniotomy for Trauma
 3. Parasagittal Craniotomy
 4. Bifrontal Craniotomy for Frontal Sinus Trauma
 5. Orbito-zygomatic Osteotomy
 6. Occipital Craniotomy
 7. Posterior Fossa Craniotomy
- 9:45 – 10:00 Refreshment Break
- 10:00 – 11:45 **Session II: Neurocranial Reconstruction and Cranioplasty Technique**
1. Bifrontal Cranioplasty for Frontal Bone/Frontal Sinus Trauma
 2. Pterional Cranioplasty Reconstruction with Customized Cranial Implant
 3. Hemicraniectomy Cranioplasty Reconstruction with Customized Cranial Implant
 4. Single-stage Cranioplasty with Alloplastic Implant
 5. Temporal Hollowing Correction with Methyl Methacrylate
 6. Complex Scalp Reconstruction for Large Defects
- 11:45 – 12:00 Closing Remarks
- 12:00 Adjourn

ACTIVITY DIRECTORS

JOHNS HOPKINS UNIVERSITY SCHOOL OF MEDICINE

Chad Gordon, DO, FACS

Director, Neuroplastic & Reconstructive Surgery
Associate Professor of Plastic Surgery
and Neurosurgery
Fellowship Director, Neuroplastic &
Reconstructive Surgery (Plastic Surgery)
Co-Director, Multidisciplinary Adult Cranioplasty
Center (MACC)

Judy Huang, MD

Vice-Chair and Professor of Neurosurgery
Fellowship Director, Neuroplastic &
Reconstructive Surgery (Neurosurgery)
Co-Director, Multidisciplinary Adult Cranioplasty
Center (MACC)

HARVARD MEDICAL SCHOOL

William Curry, MD

Professor of Neurosurgery
Director, Neurosurgical Oncology
Co-Director,
Mass General Neuroscience
Massachusetts General Hospital

Michael Yaremchuk, MD

Clinical Professor of Surgery
Chief, Craniofacial Surgery
Massachusetts General Hospital

FACULTY

JOHNS HOPKINS UNIVERSITY SCHOOL OF MEDICINE

William S. Anderson, MD, PhD

Associate Professor of Neurosurgery

Chetan Bettegowda, MD, PhD

Associate Professor of Neurosurgery
Director, Meningioma Center

Gregory Bergey, MD

Professor of Neurology
Director, Johns Hopkins Epilepsy Center

Jaishri Blakeley, MD

Professor of Neurology
Director, The Johns Hopkins Comprehensive
Neurofibromatosis Center

Henry Brem, MD

Professor of Neurosurgery
Director, Department of Neurosurgery

Justin Caplan, MD

Assistant Professor of Neurosurgery

Pablo Celnik, MD

Professor of Physical Medicine and
Rehabilitation
Director, Center of Excellence in Stroke
Treatment, Recovery and Rehabilitation

Nathan Crone, MD

Professor of Neurology
Co-Director, Epilepsy Fellowship Program

Jordan Green, PhD

Professor of Biomedical Engineering,
Ophthalmology, Oncology, Neurosurgery,
Materials Science & Engineering, and Chemical
& Biomolecular Engineering

John Lattera, MD, PhD

Professor of Neurology
Co-Director, Brain Cancer Program
Johns Hopkins Sidney Kimmel Comprehensive
Cancer Center

Hernando Lopez-Bartoni, MD

Assistant Professor of Neurology

Mark Luciano, MD, PhD

Professor of Neurosurgery
Director, Cerebral Fluid Center

Paul Manson, MD

Distinguished Professor of Plastic and
Reconstructive Surgery

Andrea Machnitz, MD

Assistant Professor of Radiology and
Radiological Science

Kerry-Ann Mitchell, MD, PhD

Neuroplastic and Reconstructive Surgery Fellow

Debraj Mukherjee, MD, MPH

Assistant Professor of Neurosurgery
Director, Neurosurgical Oncology
Johns Hopkins Bayview Medical Center

Richard Redett, III, MD

Professor of Plastic and Reconstructive Surgery
Co-Director, Brachial Plexus Clinic
Kennedy Krieger Institute

Rafael Tamargo, MD

Walter E. Dandy Professor of Neurosurgery

Nicholas Theodore, MD

Professor of Neurosurgery
Director, Neurosurgical Spine Center

Jon Weingart, MD

Professor of Neurosurgery
Director, Neurosurgical Operating Room

HARVARD MEDICAL SCHOOL

William Austen, Jr., MD

Professor of Surgery
Chief, Plastic and Reconstructive Surgery
Chief, Division of Burn Surgery
Massachusetts General Hospital

Branko Bojovic, MD

Assistant Professor of Plastic and
Reconstructive Surgery

Priscilla Brastianos, MD

Assistant Professor of Medicine
Assistant Physician in Medicine,
Hematology/Oncology
Massachusetts General Hospital

Bob Carter, MD, PhD

Professor of Neurosurgery
Harvard Medical School
Chief, Neurosurgery Service
Massachusetts General Hospital

Matthias Donelan, MD

Associate Professor of Surgery
Chief of Staff
Shriners Hospitals for Children – Boston

Kevin Emerick, MD

Assistant Professor of Otolaryngology

Leigh Hochberg, MD, PhD

Senior Lecturer on Neurology
Professor of Engineering
Brown University
Director, Center for Neurotechnology and
Neurorecovery, Neurocritical Care and Acute
Stroke Services
Department of Neurology
Massachusetts General Hospital
Director, VA Rehabilitation R&D Service
Providence VA Medical Center

Jay Loeffler, MD

Herman and Joan Suit Professor
of Radiation Oncology
Chief, Radiation Oncology
Massachusetts General Hospital

Ziv Williams, MD

Associate Professor in Neurosurgery

GUEST

Bizhan Aarabi, MD

Professor of Neurosurgery
University of Maryland School of Medicine
Baltimore, Maryland

Eric Arnaud, MD

Team Coordinator
Plastic and Aesthetic Surgery
Center for Cranio-Facial Malformations
Necker Children's Hospital
Paris, France

Dean Ad-Ei, MD

Senior Lecturer, Department of Surgery
Sackler School of Medicine, Tel Aviv University
Director, Department of Plastic Surgery
and Burns
Rabin Medical Center
Tel Aviv, Israel

Netanel Ben-Shalom, MD

Neurosurgery Chief Resident
Rabin Medical Center
Petah Tikva, Israel

Ed Boyden, PhD

Associate Professor of Biological Engineering
and Brain and Cognitive Sciences
Y. Eva Tan Professor in Neurotechnology
Massachusetts Institute of Technology
Cambridge, Massachusetts

Jan-Karl Burkhardt, MD

Assistant Professor of Neurosurgery
Baylor College of Medicine
Houston, Texas

Joseph Carey, MD

Assistant Professor of Surgery
Division of Plastic and Reconstructive Surgery
Keck School of Medicine
University of Southern California
Los Angeles, California

Jason Gerrard, MD

Assistant Professor of Neurosurgery and
Neuroscience
Chief, Functional Neurosurgery
Yale University School of Medicine
New Haven, Connecticut

Mutaz Habal, MD

Research Professor
University of South Florida
Adjunct Professor of Material Science
University of Florida
Director, Tampa Bay Craniofacial Center
Tampa, Florida

Sagi Harnoff, MD

Director, Neurosurgery
Rabin Medical Center
Tel Aviv, Israel

William Hoffman, MD

Professor of Surgery
Chief, Division of Plastic and
Reconstructive Surgery
Stephen J. Mathes, MD Endowed Chair in
Plastic and Reconstructive Surgery
University of California San Francisco
San Francisco, California

Suhasa Kodandaramaiah, PhD

Assistant Professor in Mechanical Engineering
University of Minnesota
College of Science & Engineering
Minneapolis, Minnesota

Anand Kumar, MD, FACS, FAAP

Dewayne Greenwood Richey II Endowed
Professor of Plastic Surgery and Pediatrics
Case Western Reserve University
School of Medicine
Cleveland, Ohio

Peter Liacouras, PhD

Director of Services
3D Medical Applications Center
Walter Reed National Military Medical Center
Bethesda, Maryland

Andre Machado, MD, PhD

Chairman, Neurological Institute Charles and
Christine Carroll Family Endowed Chair in
Functional Neurosurgery
Cleveland Clinic
Cleveland, Ohio

Chima Oluigbo, MD

Associate Professor of Neurosurgery
and Pediatrics
George Washington University
School of Medicine
Washington, DC

Matthew Potts, MD

Assistant Professor of Neurological Surgery
Northwestern University
Feinberg School of Medicine
Chicago, Illinois

Mark Richardson, MD

Associate Professor of Neurological Surgery
Director, Epilepsy and Movement
Disorders Program
Brain Modulation Laboratory
University of Pittsburgh School of Medicine
Pittsburgh, Pennsylvania

Gabriel Santiago, MD

Attending Neuroplastic Surgeon
Department of Otolaryngology
United States Navy
Portsmouth, Virginia

Albert Schuette, MD

Assistant Program Director
Neurosurgery
Walter Reed National Military Medical Center
Bethesda, Maryland

Vladimir Shapira, MD

Invited Lecturer
Haifa University
Attending Neurosurgeon
Department of Neurosurgery
Rambam Hospital
Haifa, Israel

Dennis Spencer, MD

Harvey and Kate Cushing
Professor of Neurosurgery
Chief, Epilepsy Surgery
Director, Epilepsy Fellowship
Director, Pituitary Surgery
Yale School of Medicine
New Haven, Connecticut

Peter Taub, MD

Professor of Surgery,
Pediatrics and Neurosurgery
Mount Sinai School of Medicine
New York, New York

Jesse Taylor, MD

Peter Randall Endowed Chair of Plastic Surgery
Chief, Division of Plastic and
Reconstructive Surgery
Co-Director, Craniofacial Program
Co-Director, Cleft Lip and Palate Program
Children's Hospital of Philadelphia
Philadelphia, Pennsylvania

Erol Veznedaroglu, MD

Robert A. Groff Chair in Neurosurgery
Director, Drexel Neurosciences Institute
Drexel Neurosciences Institute
Philadelphia, Pennsylvania

Amir Wolff, MD

Attending Surgeon
Department of Oral & Maxillofacial Surgery
Rambam Health Campus
Haifa, Israel

Graeme Woodworth, MD, FACS

Professor of Neurosurgery
University of Maryland School of Medicine
Baltimore, Maryland

Fifth Annual Selected Topics in Neuroplastic & Reconstructive Surgery: An International Symposium on Cranioplasty and Future Neurotechnology with Cadaver Lab
November 2-3, 2019

To Register:

Online: hopkinscme.cloud-cme.com/aph.aspx?P=5&EID=18099

FAX: (866) 510-7088 Phone: (410) 502-9636

Or mail this form to the Johns Hopkins University, Office of Continuing Medical Education, P.O. Box 64128, Baltimore, Maryland 21264-4128.
 Include e-check or credit card information below.

FULL PAYMENT IS REQUIRED PRIOR TO THE START OF ACTIVITY.

I am a Johns Hopkins speaker for this activity. *Please type or print clearly*

Last Name		First Name		MI.
Highest Degree	Primary Specialty		Hopkins Faculty/Staff Only: JHED ID	
For Physicians Only – NPI 10 Digit #:		State License #:	State Of License:	
Mailing Address				
City	State	Zip + 4 Code	Country	
Daytime Telephone		Fax Number		
Email (Required Field) _____				

Check here if you wish to receive e-mail notices about upcoming CME activities.

What do you hope to learn by attending this activity? _____

Please notify us if you have any special needs. _____

REGISTRATION FEES	<i>Before September 1</i>	<i>After September 1</i>
Physician – Saturday, November 2nd only	\$420	\$495
Physician – Sunday, November 3rd only	\$645	\$750
Physician – Saturday and Sunday	\$1,075	\$1,200
Residents*/Fellows*/Allied Health Professionals– Saturday, November 2nd only	\$85	\$95
Residents*/Fellows*/Allied Health Professionals– Sunday, November 3rd only	\$90	\$100
Residents*/Fellows*/Allied Health Professionals– Saturday and Sunday	\$170	\$190

**with verification of status*

Total amount enclosed \$ _____

The registration fee includes instructional materials and food and beverage. For registrations received after 5:00 p.m. ET on October 27, 2019, include a \$50 late fee. On-site registrations are payable only by credit card.

PAYMENT TYPE

JHU Faculty/Staff Only: If you are using your Tuition Remission Benefit or an ION budget, please upload your fully completed and approved form in the payment section of the online activity link above.

- TR Form: benefits.jhu.edu/documents/trffacandstaff.pdf
- ION Form: hopkinscme.edu/migration/IonRequest.pdf

e-Check: Routing # _____ Account # _____

Credit Card: VISA MASTERCARD DISCOVER AMEX

Card # _____ Exp. Date _____

Billing Zip Code _____ Security Code _____

Name on Card

Signature and Date



JOHNS HOPKINS
M E D I C I N E

Office of Continuing Medical Education
720 Rutland Avenue / Turner 20
Baltimore, Maryland 21205-2195

NONPROFIT ORG.
U.S. POSTAGE
PAID
BELLMAWR, NJ
PERMIT NO. 2134

Fifth Annual

Selected Topics in Neuroplastic & Reconstructive Surgery:

*An International Symposium on Cranioplasty and
Implantable Neurotechnology with Cadaver Lab*

November 2-3, 2019



DATED MATERIAL

Check out our mobile app CloudCME: [CloudCME](#)

Organization Code: **HopkinsCME**

hopkinscme.cloud-cme.com/aph.aspx?P=5&EID=18099