2ND ANNUAL
Neuroscience in Intensive Care
INTERNATIONAL SYMPOSIUM
NICIS-America
www.nicis.org

March 8-9, 2018
Washington, DC, USA
ABOUT THE CONFERENCE

The Neuroscience in Intensive Care International Symposium is a two-day conference that brings together scientific investigators, entrepreneurs, partners from industry, and clinicians who share the goal of translating discoveries in neuroscience into effective patient-centered treatments. Speakers include thought leaders in neurology, neuroscience, intensive care, neurophysiologic monitoring, neuroimaging, brain mapping, statistical modeling, predictive analytics, advanced clinical trial design, knowledge transfer, and technology development.

The 2018 conference will include cutting-edge research on Coma and Consciousness in Medicine. The conference speakers include thought leaders in molecular biology and genetics, proteomics, neurophysiologic monitoring and analysis, brain mapping, molecular imaging, statistical modeling, machine learning, predictive analytics, and advanced clinical trial design.

The conference is designed for an interdisciplinary and multiprofessional audience of people working in neurological injury, critical care and stroke. This includes basic and translational scientists, neuroscientists, intensivists, neurointensivists, neurologists, neurosurgeons, physiatrists, neuroanesthesiologists, neuroradiologists, psychiatrists, and neuropsychologists.

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CMEs

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TOPICS AND THEMES

Conceptual Paradigms
- Insights from Artificial Intelligence
- Neuroanatomical Systems
- Human Models of Impaired Awareness
- Philosophical and Ethical Dimensions

Brain Injury
- Brain Computer Interfaces for DOC
- Therapeutic Opportunities
- Techniques Used in Consciousness Research
- Prediction

Neuroscience in Intensive Care International Symposium (NICIS - America)
www.nicis.org
THIS YEAR’S THEME

This year’s symposium is devoted to the theme of Coma and Consciousness in Medicine. Consciousness is an emergent property seen in complex systems. The study of human consciousness cuts across disciplines and endeavors to include clinical medicine, psychology and the cognitive neurosciences, ethics, literature and philosophy. Changes in the level of consciousness are observed across the health spectrum, in physiological phenomena such as sleep, during sedation and anesthesia, and in pathological states such as seizures, traumatic brain injury, stroke, and severe physiological or metabolic imbalances affecting neuronal function.

Speakers include leading investigators in neurology, neuroscience, intensive care, neurophysiologic monitoring, neuroimaging, brain mapping, statistical modeling, predictive analytics, and clinical trial design.

THE ORGANIZERS

› Robert Stevens, MD, Ph.D., Associate Professor of Anesthesiology and Critical Care Medicine, Johns Hopkins University
› Jan Claassen, MD, Ph.D., Associate Professor of Neurology, Department of Neurology, Columbia University
› Jose Suarez, MD, Professor of Neurology, Johns Hopkins University
› Tarek Sharshar, MD, Senior Consultant, Department of Intensive Care Medicine, Raymond Poincaré Hospital, Professor, The University of Versailles
› Christos Lazaridis, MD, Assistant Professor, Neurology, Baylor College of Medicine

Neuroscience in Intensive Care International Symposium (NICIS - America)
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SPEAKING FACULTY

Yama Akbari, MD, Ph.D.
Assistant Professor, Neurology, School of Medicine, University of California-Irvine

Joseph Fins, MD, MACP
Professor of Medical Ethics, Chief of the Division of Medical Ethics, Professor of Medicine, Weill Cornell Medical College

Hal Blumenfeld, MD, Ph.D.
Professor of Neurology and Professor of Neuroscience and of Neurosurgery; Director, Yale Clinical Neuroscience Imaging Center (CNIC), Yale School of Medicine

Joseph Giacino, Ph.D.
Director of Rehabilitation Neuropsychology, Spaulding Rehabilitation Hospital, Associate Professor, Department of Physical Medicine and Rehabilitation

Melanie Boly, MD, Ph.D.
Clinical Neurology Fellow, Department of Neurology, University of Wisconsin School of Medicine and Public Health

Leigh Hochberg, MD, Ph.D.
Director, Ctr. for Neurotechnology & Neurorecovery, Neurocritical Care and Acute Stroke Services, Dept of Neurology, Mass General Hospital, Prof. of Engineering, Brown Univ.

Emery Brown, MD, Ph.D.
Professor of Medicine, Engineering & Computational Neuroscience, MIT, Professor of Anaesthesia, Harvard Medical School

Janneke Horn, MD, Ph.D.
Scientific Staff Member, Neurologist-Intensivist, University of Amsterdam Academic Medical Center

David Chalmers, Ph.D.
Professor of Philosophy and Neural Sciences, Co-Director, Center for Mind, Brain and Consciousness, New York University

Andrew Hudson, MD, Ph.D.
Assistant Professor-In-Residence, Department of Anesthesiology at David Geffen School of Medicine, University of California Los Angeles

Jan Claassen, MD, Ph.D., FNCS
Head of Neurocritical Care, Columbia University

Andrew Ko, MD
Assistant Professor, Department of Neurological Surgery, University of Washington
Christof Koch, Ph.D.  
Chief Scientist and President, Allen Institute for Brain Science

Lionel Naccache, MD, Ph.D.  
Professor of Neurology & Clinical Neurophysiology, Hôpital de la Pitié-Salpêtrière

Christos Lazaridis, MD  
Assistant Professor, Neurology, Baylor College of Medicine

Saket Navlakha, Ph.D.  
Assistant Professor, Integrative Biology Laboratory, Salk Institute for Biological Studies

Carlos Montemayor, Ph.D.  
Associate Professor, Department of Philosophy, San Francisco State University

Pratik Pandharipande, MD, MSCI, Professor of Anesthesiology & Surgery Chief, Division of Anesthesiology Critical Care Medicine, Vanderbilt University Medical Center

Martin Monti, Ph.D.  
Associate Professor, Department of Psychology & Department of Neurosurgery, Brain Injury Research Center, University of California

Tarek Sharshar, Ph.D.  
Senior Consultant, Intensive Care Medicine, University of Versailles, France

Benjamin Rohaut, MD, Ph.D.  
Postdoctoral Fellow, Columbia University

Robert Stevens, MD  
Associate Professor, Anesthesiology & Critical Care Medicine, Johns Hopkins University

Clifford Saper, MD, Ph.D.  
James Jackson Putnam Professor of Neurology & Neuroscience, Harvard Medical School, Professor, Department of Neurology, Beth Israel Deaconess Medical Center

Jose Suarez, MD  
Professor of Neurology, Johns Hopkins University

Nicholas Schiff, MD  
Jerold B. Katz Prof. of Neuroscience, Feil Family Brain & Mind Research Institute, Prof. of Neuroscience, Weill Cornell Medical College

Neuroscience in Intensive Care International Symposium (NICIS - America)
AGENDA

March 8, 2017

7:30 am Registration/Continental Breakfast

8:00 am Welcome and Introduction of Keynote Speaker
Jose Suarez, MD, Professor of Neurology, Johns Hopkins University

8:05 am KEYNOTE ADDRESS: Neural Correlates of Consciousness: Progress and Problems
Christof Koch, Ph.D., Chief Scientist and President, Allen Institute for Brain Science

CONCEPTUAL PARADIGMS

8:30 am Global Neuronal Workspace
Lionel Naccache, MD, Ph.D., Professor of Neurology & Clinical Neurophysiology, Hôpital de la Pitié-Salpêtrière

8:55 am Integrated Information Theory
Melanie Boly, MD, Ph.D., Clinical Neurology Fellow, Department of Neurology, University of Wisconsin School of Medicine and Public Health

INSIGHTS FROM ARTIFICIAL INTELLIGENCE

9:20 am Neural Circuits and Machine Learning - Mutual Inspirations
Saket Navlakha, Ph.D., Assistant Professor, Integrative Biology Laboratory, Salk Institute for Biological Studies

9:45 am Artificial Consciousness
Carlos Montemayor, Ph.D., Associate Professor, Department of Philosophy, San Francisco State University

10:10 am Refreshment Break/Poster and Exhibit Viewing

10:35 am Panel Discussion
Moderated question and answer period with the previous sessions’ speakers.

NEUROANATOMICAL SYSTEMS

10:55 am Brainstem and Hypothalamus
Clifford Saper, MD, Ph.D., James Jackson Putnam Professor of Neurology & Neuroscience, Harvard Medical School, Professor, Department of Neurology, Beth Israel Deaconess Medical Center

11:20 am The Mesocircuit Model
Nicholas Schiff, MD, Jerold B. Katz Professor of Neurology & Neuroscience, Feil Family Brain & Mind Research Institute, Professor of Neuroscience, Weill Cornell Medical College

11:45 am Luncheon

ETHICS AND DISORDERS OF CONSCIOUSNESS

12:45 pm Ethical Challenges in Consciousness Research
Joseph Fins, MD, MACP, Professor of Medical Ethics, Chief of the Division of Medical Ethics, Professor of Medicine, Weill Cornell Medical College

1:10 pm Consciousness and Neurocritical Care Ethics
Christos Lazaridis, MD, Assistant Professor, Neurology, Baylor College of Medicine

1:35 pm Panel Discussion
Moderated question and answer period with the previous sessions’ speakers.
PREDICTION I

1:55 pm Neuroimaging for Coma Recovery
Robert Stevens, MD, Associate Professor, Anesthesiology and Critical Care Medicine, Johns Hopkins University

2:20 pm Importance of Brainstem Responses in Critically Ill Patients
Tarek Sharshar, Ph.D., Senior Consultant, Intensive Care Medicine, University of Versailles Saint-Quentin en Yvelines

TECHNIQUES USED IN CONSCIOUSNESS RESEARCH

2:45 pm Behavioral Assessment in DOC
Joseph Giacino, Ph.D., Director of Rehabilitation Neuropsychology, Spaulding Rehabilitation Hospital, Associate Professor, Department of Physical Medicine and Rehabilitation, Harvard Medical School

3:00 pm A New System to Classify DOC
Lionel Naccache, MD, Ph.D., FNCS, Professor of Neurology and Clinical Neurophysiology, Hospital de la Pitie-Salpetriere

3:15 pm Resting and Active EEG
Jan Claassen, MD, Ph.D., FNCS, Head of Neurocritical Care, Columbia University

3:30 pm Refreshment Break/Poster and Exhibit Viewing

3:55 pm MRI to Probe Thalamocortical Systems in Humans
Martin Monti, Ph.D., Associate Professor, Department of Psychology & Department of Neurosurgery, Brain Injury Research Center, University of California Los Angeles

4:10 Event-Related Potentials
Benjamin Rohaut, MD, Ph.D., Postdoctoral Fellow, Columbia University

4:25 pm Multimodal Optical Imaging
Yama Akbari, MD, Ph.D., Assistant Professor, Neurology, School of Medicine, University of California-Irvine

4:40 pm Exploration of Cortical Microcircuits
Andrew Hudson, MD, Ph.D., Assistant Professor-In-Residence, Department of Anesthesiology, David Geffen School of Medicine, University of California Los Angeles

4:55 pm Panel Discussion
Moderated question and answer period with the previous sessions’ speakers.

5:15 pm End of Day One

March 9, 2017

7:45 am Continental Breakfast

8:15 am Introduction of Keynote Speaker
Robert Stevens, MD, Associate Professor, Anesthesiology and Critical Care Medicine, Johns Hopkins University

8:20 am KEYNOTE ADDRESS: The Hard Problem of Consciousness and the Measurement of Consciousness
David Chalmers, Ph.D., Professor of Philosophy and Neural Sciences, Co-Director, Center for Mind, Brain and Consciousness, New York University

HUMAN MODELS OF IMPAIRED AWARENESS

8:45 am Unconsciousness During Epileptic Seizures
Hal Blumenfeld, MD, Ph.D., Mark Loughridge and Michele Williams Professor of Neurology and Professor of Neuroscience and of Neurosurgery, Director, Yale Clinical Neuroscience Imaging Center (CNIC), Yale School of Medicine
9:10 am Delirium
Pratik Pandharipande, MD, MSCI, Professor of Anesthesiology & Surgery, Chief, Division of Anesthesiology Critical Care Medicine, Vanderbilt University Medical Center

9:35 am General Anesthesia
Emery Brown, MD, Ph.D., Edward Hood Taplin Professor of Medicine Engineering & Computational Neuroscience, Massachusetts Institute of Technology, Warren M. Zapol Professor of Anaesthesia, Harvard Medical School

9:10 am Delirium
Pratik Pandharipande, MD, MSCI, Professor of Anesthesiology & Surgery, Chief, Division of Anesthesiology Critical Care Medicine, Vanderbilt University Medical Center

10:00 am PANEL DISCUSSION
Moderated question and answer period with the previous sessions’ speakers.

10:20 am Refreshment Break/Poster and Exhibit Viewing

PREDICTION II

10:45 am Assessment and Prediction of Recovery Early After Brain Injury
Jan Claassen, MD, Ph.D., FNCS, Head of Neurocritical Care, Columbia University

11:10 am Neurologic Prognosis After Cardiac Arrest
Janneke Horn, MD, Ph.D., Scientific Staff Member, Neurologist-Intensivist, University of Amsterdam Academic Medical Center

11:35 am PANEL DISCUSSION
Moderated question and answer period with the previous sessions’ speakers.

11:55 am LUNCHEON

BRAIN COMPUTER INTERFACES

12:50 pm Intracortical Neural Interface
Leigh Hochberg, MD, Ph.D., Director, Center for Neurotechnology and Neurorecovery, Neurocritical Care and Acute Stroke Services, Department of Neurology, Massachusetts General Hospital, Professor of Engineering, Brown University

1:15 pm Electrocorticographic Brain-Computer Interfaces
Andrew Ko, MD, Assistant Professor, Department of Neurological Surgery, University of Washington

THERAPEUTIC OPPORTUNITIES

1:40 pm Addressing Challenges in Therapeutics Trials in Patients with DOC
Nicholas Schiff, MD, Jerold B. Katz Professor of Neurology & Neuroscience, Feil Family Brain & Mind Research Institute, Prof. of Neuroscience, Weill Cornell Medical College

2:05 pm Transcranial Neuromodulation Therapy
Martin Monti, Ph.D., Associate Professor, Department of Psychology & Department of Neurosurgery, Brain Injury Research Center, University of California Los Angeles

2:30 pm Pharmacologic Therapies to Enhance Arousal/Awareness
Joseph Giacino, Ph.D., Director of Rehabilitation Neuropsychology, Spaulding Rehabilitation Hospital, Associate Professor, Department of Physical Medicine and Rehabilitation, Harvard Medical School

2:55 pm PANEL DISCUSSION
Moderated question and answer period with the previous sessions’ speakers.

3:15 pm Concluding Remarks
Jan Claassen, MD, Ph.D., FNCS, Head of Neurocritical Care, Columbia University

3:20 pm End of Conference
THE VENUE

Hyatt Centric Arlington
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The Neuroscience in Intensive Care International Symposium Poster Session will provide the opportunity for individuals to present their research and offers an excellent venue for extended informal discussion with meeting attendees. Abstracts should be focused on one or more of the following areas of research: Conceptual Paradigms, Insights from Artificial Intelligence, Neuroanatomical Systems, Human Models of Impaired Awareness, Philosophical and Ethical Dimensions, Brain Injury, Brain Computer Interfaces for DOC, Therapeutic Opportunities, Techniques Used in Consciousness Research and Prediction

Requirements

Abstracts should be no longer than 1000 words and follow a standard format (background, methods, results, conclusion).

Please include the following in your submission:
• Full name and affiliation
• Poster Title
• Abstract

Deadlines/Other Information
Please email your submission to enquiries@nicis.org by February 15, 2018. Posters are reviewed and accepted for presentation on a rolling basis. Allow 3 business days for notification of acceptance.

Guidelines for Presenters
Information regarding physical dimensions/specifications for accepted submissions will be communicated to presenters via email.

*Regular registration rates apply for all accepted poster session presenters.
STUDENT RATE
Early Bird (through Jan. 7, 2018): $350
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