Neurosciences in Intensive Care International Symposium (NICIS)

June 20-21 2019
INSTITUT PASTEUR I PARIS

Neuro-prognostication in the ICU: from basic neuroscience to medical decision

Jean Mantz Award - 500 €

Scientific Organizers
Pr Fernando Bozza | Oswaldo Cruz Fondation
Pr Jan Claassen | Columbia University College of Physicians & Surgeons
Dr Vincent Degos | University of Pierre & Marie Curie
Pr Tarek Sharshar | Paris-Descartes University, Sainte-Anne teaching Hospital
Dr Romain Sonneville | Paris Diderot University
Pr Robert D Stevens | Johns Hopkins University

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**THURSDAY JUNE 20th I NICIS EUROPE 2019**

8:30am-9:00am Welcome & registration

9:00am-10:00am NEUROPROGNOSTICATION IN STROKE

9:00am-9:20am Prediction of aphasia recovery after ischemic stroke  
Cathy J Price - University College London, London (United Kingdom)

9:20am-9:40am Prediction of motor recovery after ischemic stroke  
Charlotte Rosso - Sorbonne University, Paris (France)

9:40am-10:00am Pragmatic approach of prognostication in severe stroke  
Mikael Mazighi - Paris Diderot University, Paris (France)

10:00am-10:20am Coffee Break

10:20am-11:40am NEUROPROGNOSTICATION IN CARDIAC ARREST

10:20am-10:40am Pathophysiology of ischemic brain injuries  
Denis Viven - INSERM Paris, Gip Cyneron Caen (France)

10:40am-11:00am Functional and structural MRI for neuroprognostication after cardiac arrest  
Robert D Stevens - John Hopkins Medicine, Baltimore (USA)

11:00am-11:20am Electrophysiology in anoxo-ischemic injuries  
Michel van Putten - University of Twente & Medisch Spectrum Twente (Netherlands)

11:20am-11:40am Pragmatic approach of prognostication after cardiac arrest  
Alan Canou - Paris Descartes University, Paris (France)

11:40am-1:10pm SYMPOSIUM 1

2:00pm-3:20pm NEUROPROGNOSTICATION IN TRAUMATIC BRAIN INJURY

2:00pm-2:20pm Pathophysiology of TBI  
Jonathan Coles - University of Cambridge Cambridge (United Kingdom)

2:20pm-2:40pm Epidemiological research on prognostication of TBI Outcome  
Hester Limsga - Erasmus Medical Center Rotterdam (Netherlands)

2:40pm-3:00pm Predict cognitive dysfunction after TBI  
David Sharp - Imperial College London (United Kingdom)

3:00pm-3:20pm Long term improvement after TBI  
Jacques Luauté - Hospices Civils de Lyon, Lyon (France)

3:20pm-3:40pm Coffee Break

3:40pm-5:00pm NEUROPLASTICITY

3:40pm-4:00pm Stress-induced mechanisms of neuroplasticity in pathophysiology of brain diseases  
Maurizio Popoli - University of Milan, Milan (Italy)

4:00pm-4:20pm Early markers of perinatal brain damage  
Diego Gazzola - «Cesare Amigo» Children’s Hospital, Allesandra (Italy)

4:20pm-4:40pm Plasticity and connectivity - Detection and stimulation with TMS  
John Rothwell - University College London, London (United Kingdom)

4:40pm-5:00pm Neuroplasticity evaluation to predict prognosis: from bench to bedside  
Nick Ward - University College London, London (United Kingdom)

5:00pm-6:30pm SYMPOSIUM 2

**FRIDAY JUNE 21th I NICIS EUROPE 2019**

8:30am-9:00am Welcome & registration

9:00am-10:20am NEUROPROGNOSTICATION OF CONSCIOUSNESS

9:00am-9:20am Clinical evaluation of consciousness in the ICU  
Aurore Thibault - University of Liège (Belgium)

9:20am-9:40am Uncovering consciousness in unresponsive ICU patients: technical, medical and ethical considerations  
Jan Claassen - Columbia University, New York (USA)

9:40am-10:00am Consciousness and complexity  
Mario Rosanova - University of Milan, Milan (Italy)

10:00am-10:20am Prognostication of consciousness recovery: State of the art in 2019  
Lionel Naccache - Sorbonne Universities, Paris (France)

10:40am-12:00am DECISION MAKING IN HIGH DEGREE OF UNCERTAINTY

10:40am-11:00am General introduction to decision making  
Albert Mourkheirer - Chasma, Paris (France)

11:00am-11:20am Confirmation bias  
Stefano Palminteri - Ecole Normale Supérieure de Paris (France)

11:20am-11:40am How to improve medical decision under pressure / uncertainty  
Niklas Keller - Châtel Universitätsmedizin, Berlin (Germany)

11:40am-12:00pm The role of uncertainty in decisions to withdraw Life-sustaining treatments  
Christos Lazaridis - University of Chicago, Chicago (USA)

12:00pm-1:30pm MINISYMPOSIUM SOPHYSIA: TEMPERATURE IN NEURO-ICU

12:00pm-12:30pm Mechanisms of temperature control  
Dr Bernard Vigué, Le Kremlin-Bicêtre (France)

12:30pm-1:00pm Benefit from temperature control in neuroICU patients  
Pr Jean-François Payen, Université Grenoble Alpes, Grenoble (France)

1:00pm-1:30pm Monitoring of the central temperature  
Dr Nicolas Engrand, Fondation Rothschild, Paris (France)

2:00pm-2:20pm NEUROPROGNOSTICATION IN STROKE (follow)

2:20pm-3:40pm BRAIN DEATH: CONCEPTS AND CHALLENGES

2:20pm-2:40pm A brief History of brain deaths  
Laura Bossi - Pariss Diderot University, Paris (France)

2:40pm-3:00pm Variability or consistency of brain death criteria?  
Giuseppe Citerio - Milano Bicocca University, Milan (Italy)

3:00pm-3:20pm Cofounding factor in neuroprognostication: sedation, renal and liver failure  
Caroline Nigoghossian - Columbia University Medical Center/NYC Presbyterian Hospital New York (USA)

3:20pm-3:40pm Neuroprognosis and Donation After Cardiac Death (DCD)  
Erwin Kompanje - Erasmus Medical Center, Rotterdam (Netherlands)

3:40pm-4:00pm Coffee Break

4:00pm-5:40pm FUTURE OF NEUROPROGNOSTICATION: BIG DATA AND MACHINE LEARNING

4:00pm-4:20pm Using real-world data for research and outcomes: An innovative approach  
Jorge Salihu - Dor Institute for research and education, Rio de Janeiro, Brazil

4:20pm-4:40pm Big Data and prediction  
Arno Etoc - Erasmus Medical Center, Rotterdam (Netherlands)

4:40pm-5:00pm Non-linear machine learning and signal models reveal new insights on neural oscillations  
Alexandre Gramfort - Inria CEA Neurospin, Université Paris-Saclay (France)

5:00pm-5:20pm EEG markers of consciousness in brain-injured patients  
Jacobo Sitt - Brain and Spine Institute, Paris (France)

5:20pm-5:40pm A multimodal approach of neuroprognostication  
Louis Paybasset - Sorbonne University, Paris (France)

5:40pm-6:00pm Awards I End of the conference