



Institut Pasteur, 28 rue du Dr Roux, 75015 PARIS

Metro stations : «Volontaires» (line 12) or «Pasteur» (lines 6 and 12)

5 minutes walking to the Institut Pasteur

10 minutes walking from Montparnasse Railway station

Neurosciences in Intensive Care International Symposium (NICIS)

June 20-21 2019

INSTITUT PASTEUR | 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 Sonnevill | Paris Diderot University
- Pr Robert D Stevens | Johns Hopkins University

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## THURSDAY JUNE 20th | 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 Vivien - INSERM Paris, GIP Cycecon Caen (France)*
- 10:40am-11:00am Functional and structural MRI for neuroprognostication after cardiac arrest *Robert D Stevens - Johns 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 *Alain Cariou - 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 Lingsma - 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 Gazzolo - «Cesare Arrigo» Children's Hospital, Alessandria (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 | 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 Thibaut - 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 **Coffee Break**

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

- 10:40am-11:00am General introduction to decision making *Albert Moukheiber - Chiasma, Paris (France)*
- 11:00am-11:20am Confirmation bias *Stefano Palminteri - Ecole Normale Supérieure, Paris (France)*
- 11:20am-11:40am How to improve medical decision under pressure / uncertainty *Niklas Keller - Charité Universitätsmedizin, Berlin (Germany)*
- 11:40am-12:00pm The key role of uncertainty in decisions to withdraw life-sustaining treatments *Christos Lazaridis - University of Chicago, Chicago (USA)*

### 12:00pm-1:30pm **MINISYMPOSIUM SOPHYSA: TEMPERATURE IN NEURO-ICU** Moderator: Pr Vincent Degos

- 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)**

- Pathophysiology of acute ischemic stroke and recovery *Lionel Velly - Aix-Marseille University, Marseille (France)*

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

- 2:20pm-2:40pm A brief History of brain deaths *Laura Bossi - Paris 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 Confounding 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 Salluh - Dior Institute for research and education, Rio de Janeiro (Brazil)*
- 4:20pm-4:40pm Big Data and prediction *Ari Ercole - 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 Puybasset - Sorbonne University, Paris (France)*

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



SYMPOSIUM EN FRANÇAIS

