

June 11-13

2014

Neurobiology of

STRESS

## Wednesday

14:30 - Welcome, Registration

### 15:00-17:00 Minisymposium on "Brain in Sepsis"

Chairmen: F Bozza (Rio de Janeiro) and T Sharshar (Garches)

- 15:00 > Brain bioenergetics in the septic brain - **F Bozza (Rio de Janeiro)**
- 15:20 > Glial cell responses in sepsis - **F Chretien (Paris)**
- 15:40 > The effect of chronic stress on T cell-induced neuroinflammation  
**A Monsonego (Beer-Sheva)**
- 16:00 > Electrophysiological monitoring in septic patients - **J Claassen (New York)**
- 16:20 > Cerebral perfusion in septic patients - **RD Stevens (Baltimore)**
- 16:40 > Therapeutic interventions for septic encephalopathy - **J Salluh (Rio de Janeiro)**

07:40 - Welcome, Registration

08:00 - Opening Remarks - T Sharshar (Garches)

### 08:10-09:30 Fundamental concepts

Chairmen: **A Desmedt (Bordeaux)** and **T Sharshar (Garches)**

- 08:10 > Diversity of the response to stress - **M Joels (Amsterdam)**
- 08:30 > Burden and effects of stress across the lifespan - **SJ Lupien (Montreal)**
- 08:50 > Interoception : sense of the physiological condition of the body - **H Olausson (Goteborg)**
- 09:10 > Circadian regulation in critical illness - **DJ Dijk (Guildford)**

### 09:30-10:30 Behavioral response to stress

Chairmen: **SJ Russo (New York)** and **RD Stevens (Baltimore)**

- 09:30 > Neurobiology of fear and anxiety - **M Heinrichs (Freiburg)**
- 09:50 > From sickness behavior to brain dysfunction - **BE Leonard (Galway)**
- 10:10 > Neurobiology of post-traumatic stress disorder - **A Desmedt (Bordeaux)**

10:30 - Break



### 11:00-12:00 Acute stress and long term adaptation

Chairmen: **M Joels (Amsterdam)** and **EM Sternberg (Bethesda)**

- 11:00 > Neurobiology of resilience - **SJ Russo (New York)**
- 11:20 > Neural mechanisms underlying chronic visceral pain - **S Eisenbruch (Essen)**
- 11:40 > Effects of anesthetic agents on the brain: plasticity and neurodegeneration? - **L Vutskits (Geneva)**

## Thursday

## 1 Sponsored minisymposium I

### 12:10-13:10 Temperature management in acute brain injury

Chairmen: **G. Audibert (Nancy)** and **A Cariou (Paris)**

- 12:10 > Tissue protective effects of ultra-fast cooling in experimental models - **R Tissier (Maison-Alfort)**
- 12:30 > Cooling in TBI: present and future - **JF Payen (Grenoble)**
- 12:50 > Targeted temperature management after post-anoxic brain insult: where do we stand?  
**M Oddo (Lausanne)**

IBARD

### 14:10-15:30 Neuroimmunological interactions

Chairmen: **V Degos (Paris)** and **JM Cavaillon (Paris)**

- 14:10 > Innate immunity in the central nervous system - **S Rivest (Laval)**
- 14:30 > Brain signaling triggered by systemic inflammation - **C Cunningham (Dublin)**
- 14:50 > Cholinergic modulation of the immune response - **U Andersson (Stockholm)**
- 15:10 > Immune mechanisms of CNS repair - **P Popovich (Columbus)**

### 15:30 - Break



### 16:00-17:00 Neuroendocrine responses in stress

Chairmen: **D Annane (Garches)** and **M Cosentino (Varese)**

- 16:00 > Neuroendocrine response to stress - **SL Lightman (Bristol)**
- 16:20 > Biology of the glucocorticoid system in acute stress - **EM Sternberg (Bethesda)**
- 16:40 > Osmoregulation and thirst responses - **C Bourque (Montreal)**

### 17:00 - Poster session

## 2 Sponsored minisymposium II

### 17:30-19:10 Neuroscience in neurovascular disease

Chairmen: **D Vivien (Caen)** and **JC Baron (Paris)**

- 17:30 > Inflammation and stroke - **J Neher (Berlin)**
- 17:50 > Imaging of ischemic stroke - **JC Baron (Paris)**
- 18:10 > Oxygen sensing in the brain - **M Bernaudin (Caen)**
- 18:30 > Neuroprotection with statins - **O Meilhac (Paris)**
- 18:50 > New anticoagulants in stroke - **P Mismetti (Saint-Etienne)**

with the support of AstraZeneca



## 08:00-09:20 Stress and autonomic dysregulation

Chairmen: **U Anderson (Stockholm)** and **N Bruder (Marseille)**

- 08:00 > Adrenergic control of the cardiovascular system: from hypotension to shock  
**PG Guyenet (Charlottesville)**
- 08:20 > Adrenergic modulation of the immune response - **M Cosentino (Varese)**
- 08:40 > Autonomic dysfunction in heart disease - **X Jouven (Paris)**
- 09:00 > Autonomic dysfunction in critical illness - **D Annane (Garches)**

09:20 - Break



## 09:50-11:10 Neuro-respiratory interactions

Chairmen: **PG Guyenet (Charlottesville)** and **J Claassen (New York)**

- 09:50 > Respiratory drive in critically ill patients - **N Hart (London)**
- 10:10 > Chemo-reception in the central nervous system - **JF Brunet (Paris)**
- 10:30 > Is Lactate a novel signalling molecule in the brain? - **S Kasparov (Bristol)**
- 10:50 > Neurobiology of dyspnea - **KT Pattinson (Oxford)**

## 3 Sponsored minisymposium III

### 11:15-12:15 Pharmacologic modulation of the stress response

Chairmen: **J Mantz (Clichy)** and **N Bruder (Marseille)**

- 11:15 > Alpha-2 adrenergic agonists - **N Bruder (Marseille)**
- 11:35 > Beta-adrenergic receptor antagonists - **D Annane (Garches)**
- 11:55 > Selective adrenergic receptor modulators and acute lung injury - **JF Pittet (Birmingham)**

**Baxter**

## 4 Sponsored minisymposium IV

### 14:00-15:40 Neuroscience in traumatic brain injury

Chairmen: **V Degos (Paris)** and **RD Stevens (Baltimore)**

- 14:00 > Cortical spreading depression: biology and significance in acute brain injury  
**M Lauritzen (Copenhagen)**
- 14:20 > TBI and neurodegenerative disease - **D Menon (Cambridge)**
- 14:40 > Mapping neural adaptation following TBI - **RD Stevens (Baltimore)**
- 15:00 > Prognostication in severe TBI - **A Turgeon (Quebec)**
- 15:20 > Insights from Near-Infrared Spectroscopy (NIRS) - **G Franconi (Grenoble)**

 **COVIDIEN**

15:40 - Break



## 16:00-17:00 Brain-liver-gut interactions

Chairmen: **C Bourque (Montreal)** and **S Kasparov (Bristol)**

- 16:00 > Neural regulation of hepato-gastric function - **A Kalsbeek (Amsterdam)**
- 16:20 > Neural effects of the gut microbiome - **JF Cryan (Cork)**
- 16:40 > Biology of hepatic encephalopathy - **DL Shawcross (London)**

17:00 - Concluding remarks - **J Mantz (Clichy)** - 17:10 - End of Conference

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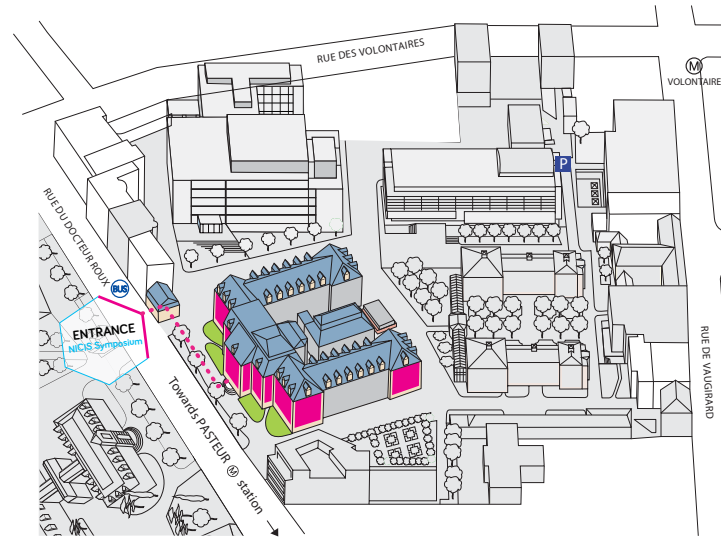
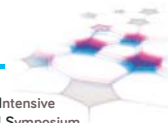


June 11-13 2014

Registration on [www.NICIS.fr](http://www.NICIS.fr)  
contact@NICIS.fr | + 33 (0)240 867 679

NICIS

Neurosciences in Intensive Care International Symposium



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

Sponsors

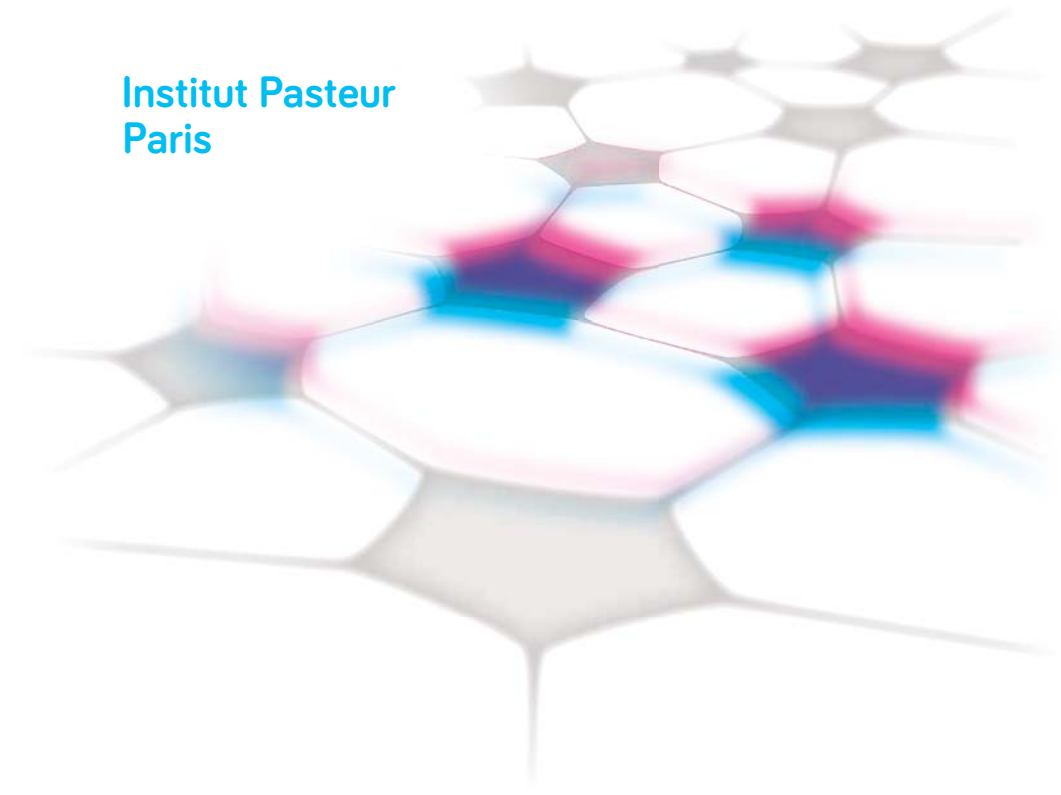


Neurosciences in Intensive Care International Symposium (NICIS)\*

# Neurobiology of STRESS

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Institut Pasteur Paris



Information & registration at

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\* this is the continuation of Versailles International Neurocritical Care Symposium (VINCS) which has moved to Paris

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