

**Networks, Neuroscience,  
and Intensive Care****THURSDAY 30 JUNE | DAY ONE****8:50AM > 9AM****CONGRESS OPENING****9AM > 10:15AM****INTRODUCTION AND CONTEXT.** Moderated by B. Rohaut

9am &gt; 9:20am

Consciousness and Cortical Networks *C. Koch, USA*

9:20am &gt; 9:40am

Network Medicine: From Cellular Networks to the Human Diseaseome  
*A. Barabasi, Boston, USA*

9:40am &gt; 10:00am

Network paradigms in disorders of consciousness *A. Demertzi, Liège, Belgium*

10:00am &gt; 10:15am

Question/Answers live

**10:15AM > 11AM****COFFEE BREAK****11AM > 12:30PM****LARGE SCALE CEREBRAL NETWORKS: MODELS.** Moderated by J.J. Aucouturier

11am &gt; 11:20am

Lesion, stimulation and neuroimaging studies of cortical networks supporting human consciousness *M. Boly, Madison, USA*

11:20am &gt; 11:40am

Network-based neurodegeneration *W. Seeley, San Francisco, USA*

11:40am &gt; 12:00pm

Anesthesia-Induced Unconsciousness: Mechanisms and Control  
*E. Brown, Boston, USA*

12:00pm &gt; 12:30pm

Question/Answers live

**12:30PM > 1:20PM****LUNCH BREAK****1:20PM > 2:30PM****LARGE SCALE CEREBRAL NETWORKS: ACTIVE AND STIMULATION PARADIGMS**  
Moderated by J. Claassen

1:20pm &gt; 1:40pm

Decomposing language processing in the healthy brains with deep learning algorithms *J.R. King, Paris, France*

1:40pm &gt; 2:00pm

Towards a computational neurophysiology of covert auditory processing in comatose patients *J.J. Aucouturier, Besançon, France*

2:00pm &gt; 2:30pm

Question/Answers live

**2:30PM > 3:30PM****CELLULAR AND MOLECULAR NETWORKS.** Moderated by A. Mazeraud

2:30pm &gt; 2:50pm

Molecular mechanisms underlying neural circuit assembly in the mammalian visual system *A. Kolodkin, Baltimore, USA*

2:50pm &gt; 3:10pm

Astrocyte modulation of synaptic function *M. Cohen-Salmon, Paris, France*

3:10pm &gt; 3:40pm

Question/Answers live

**3:40pm > 4pm****COFFEE BREAK****4PM > 5:15PM****CELLULAR AND MOLECULAR NETWORKS (FOLLOWED).**  
Moderated by A. Mazeraud

4pm &gt; 4:20pm

Cerebral organoids for neurologic disease modeling  
*L. Le Guennec, Paris, France*

4:20pm &gt; 4:40pm

Mapping networks in the awake mouse brain by functional ultrasound imaging  
*Z. Lenkei, Paris, France*

4:40pm &gt; 5:00pm

Modeling of stroke recovery with advanced brain connectivity imaging  
*F. Hummel, Lausanne, Switzerland*

5:00pm &gt; 5:15pm

Question/Answers live

**Networks, Neuroscience,  
and Intensive Care****FRIDAY 1 JULY | DAY TWO****8:30AM > 10:45AM****LARGE-SCALE NETWORK ANALYSIS IN INTENSIVE CARE.**

Moderated by B. Hermann

8:30am &gt; 8:50am

Connectome signatures for brain injury prediction and classification  
*R. Stevens, Baltimore, USA*

8:50am &gt; 9:10am

Task-based EEG analysis in the ICU *J. Claassen, New-York, USA*

9:10am &gt; 9:30am

Resting-state EEG analysis in the ICU *B. Rohaut, Paris, France*

9:30am &gt; 9:50am

Importance, limits and caveats of the use of Disorders of Consciousness to theorize consciousness *L. Naccache, Paris, France*

9:50am &gt; 10:10am

Network adaptations during recovery from severe neurological injury  
*V. Newcombe, Cambridge, UK*

10:10am &gt; 10:45am

Question/Answers live

**10:45AM > 11:15AM****COFFEE BREAK****11:15AM > 1:00PM****NEURO-IMMUNE NETWORK CROSSTALK IN CRITICAL ILLNESS.**

Moderated by T. Sharshar

11:15am &gt; 11:35am

Cerebral network dysfunction associated with systemic inflammatory signaling *M. Heneka, Bonn, Germany*

11:35am &gt; 11:55am

Epigenetic regulation of microglial cells *A. Jacquens, Lausanne, Switzerland*

11:55am &gt; 12:15pm

The microbiome and immune modulation of cerebral function  
*M. Rodriguez Aburto, Cork, Ireland*

12:15pm &gt; 12:35pm

Neuromodulation of the immune response in critically ill patients  
*D. Annane, Paris, France*

12:35pm &gt; 1pm

Question/Answers live

**1PM > 2PM****LUNCH BREAK****2PM > 3:30PM****NEURO-IMMUNE NETWORK CROSSTALK IN CRITICAL ILLNESS (FOLLOWED).**

Moderated by R. Sonnevile

2:pm &gt; 2:20pm

Systemic immune adaptation to brain-injury *A. Roquilly, Nantes, France*

2:20pm &gt; 2:40pm

BLA circuits supporting negative hedonic bias in depression  
*C. Henry, Paris, France*

2:40pm &gt; 3:00pm

Neuroimmunology of post-sepsis PTSD *A. Mazeraud, Paris, France*

3:00pm &gt; 3:30pm

Question/Answers live

**3:30PM > 4PM****COFFEE BREAK****4PM > 5:15PM****BRAIN-CARDIAC NETWORKS IN CRITICAL ILLNESS.** Moderated by R. Stevens

4pm &gt; 4:20pm

Anatomy and physiology of the brain/cardiac axis *J. Sitt, Paris, France*

4:20pm &gt; 4:40pm

Neurological outcomes of ECMO *R. Sonnevile, Paris, France*

4:40pm &gt; 5pm

Decoding cardiac signals in acute brain injury *S. Park, USA*

5pm &gt; 5:15pm

Question/Answers live

**5:15PM > 6:30PM****BRAIN-RESPIRATORY NETWORKS IN CRITICAL ILLNESS.**

Moderated by V. Degos

5:15pm &gt; 5:35pm

Brain-lung crosstalk after acute brain injury *K. Asehounne, Nantes, France*

5:35pm &gt; 5:55pm

Approaches to ventilator-patient dyssynchrony *L. Brochard, Toronto, Canada*

5:55pm &gt; 6:15pm

Brainstem dysfunction in COVID-19 patients *B. Hermann, Paris, France*

6:15pm &gt; 6:30pm

Question/Answers live