NICIS 2022

JUNE THE 30TH I JULY THE 1ST | DIGITAL EDITION

Networks, Neuroscience, and Intensive Care

NICIS EUROPE

THURSDAY 30 JUNE I DAY ONE

8:50AM > 9AM	**CONGRESS OPENING**
9AM > 10:15AM	**INTRODUCTION AND CONTEXT.** Moderated by B. Rohaut
9am > 9:20am	Consciousness and Cortical Networks *C. Koch, USA*
9:20am > 9:40am	Network Medicine: From Cellular Networks to the Human Diseasome *A. Barabasi, Boston, USA*
9:40am > 10:00am	Network paradigms in disorders of consciousness *A. Demertzi, Liège, Belgium*
10:00am > 10:15am	Question/Answers live
10:15AM > 11AM	**COFFEE BREAK**
11AM > 12:30PM	**LARGE SCALE CEREBRAL NETWORKS: MODELS.** Moderated by J.J. Aucouturier
11am > 11:20am	Lesion, stimulation and neuroimaging studies of cortical networks supporting human consciousness *M. Boly, Madison, USA*
11:20am > 11:40am	Network-based neurodegeneration *W. Seeley, San Francisco, USA*
11:40am > 12:00pm	Anesthesia-Induced Unconsciousness: Mechanisms and Control *E. Brown, Philadelphia, USA*
12:00pm > 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 > 1:40pm	Decomposing language processing in the healthy brains with deep learning algorithms *J.R. King, Paris, France*
1:40pm > 2:00pm	Towards a computational neurophysiology of covert auditory processing in comatose patients *J.J. Aucouturier, Besançon, France*
2:00pm > 2:30pm	Question/Answers live
2:30PM > 3:30PM	**CELLULAR AND MOLECULAR NETWORKS.** Moderated by A. Mazeraud
2:30pm > 2:50pm	Molecular mechanisms underlying neural circuit assembly in the mammalian visual system *A. Kolodkin, Baltimore, USA*
2:50pm > 3:10pm	Astrocyte modulation of synaptic function *M. Cohen-Salmon, Paris, France*
3:10pm > 3:40pm	Question/Answers live
3:40pm > 4pm	**COFFEE BREAK**
4PM > 5:15PM	**CELLULAR AND MOLECULAR NETWORKS (FOLLOWED).** Moderated by A. Mazeraud
4pm > 4:20pm	Cerebral organoids for neurologic disease modeling *L. Le Guennec, Paris, France*
4:20pm > 4:40pm	Mapping networks in the awake mouse brain by functional ultrasound imaging *Z. Lenkei, Paris, France*
4:40pm > 5:00pm	Modeling of stroke recovery with advanced brain connectivity imaging *F. Hummel, Lausanne, Switzerland*
5:00pm > 5:15pm	Question/Answers live

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FRIDAY 1 JULY I DAY TWO

8:30AM > 10:45AM	**LARGE-SCALE NETWORK ANALYSIS IN INTENSIVE CARE.** Moderated by B. Hermann
8:30am > 8:50am	Connectome signatures for brain injury prediction and classification *R. Stevens, Baltimore, USA*
8:50am > 9:10am	Task-based EEG analysis in the ICU *J. Claassen, New-York, USA*
9:10am > 9:30am	Resting-state EEG analysis in the ICU *B. Rohaut, Paris, France*
9:30am > 9:50am	Importance, limits and caveats of the use of Disorders of Consciousness to theorize consciousness *L. Naccache, Paris, France*
9:50am > 10:10am	Network adaptations during recovery from severe neurological injury *V. Newcombe, Cambridge, UK*
10:10am > 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 > 11:35am	Cerebral network dysfunction associated with systemic inflammatory signaling *M. Heneka, Bonn, Germany*
11:35am > 11:55am	Epigenetic regulation of microglial cells *A. Jacquens, Lausanne, Switzerland*
11:55am > 12:15pm	The microbiome and immune modulation of cerebral function *M. Rodriguez Aburto, Cork, Irlande*
12:15pm > 12:35pm	Neuromodulation of the immune response in critically ill patients *D. Annane, Paris, France*
12:35pm > 1pm	Question/Answers live
1PM > 2PM	**LUNCH BREAK**
2PM > 3:30PM	**NEURO-IMMUNE NETWORK CROSSTALK IN CRITICAL ILLNESS (FOLLOWED).** Moderated by R. Sonneville
2:pm > 2:20pm	Systemic immune adaptation to brain-injury *A. Roquilly, Nantes, France*
2:20pm > 2:40pm	BLA circuits supporting negative hedonic bias in depression *C. Henry, Paris, France*
2:40pm > 3:00pm	Neuroimmunology of post-sepsis PTSD *A. Mazeraud, Paris, France*
3:00pm > 3:30pm	Question/Answers live
3:30PM > 4PM	**COFFEE BREAK**
4PM > 5:15PM	**BRAIN-CARDIAC NETWORKS IN CRITICAL ILLNESS.** Moderated by R. Stevens
4pm > 4:20pm	Anatomy and physiology of the brain/cardiac axis *J. Sitt, Paris, France*
4:20pm > 4:40pm	Neurological outcomes of ECMO *R. Sonneville, Paris, France*
4:40pm > 5pm	Decoding cardiac signals in acute brain injury *S. Park, USA*
5pm > 5:15pm	Question/Answers live
5:15PM > 6:30PM	**BRAIN-RESPIRATORY NETWORKS IN CRITICAL ILLNESS.** Moderated by V. Degos
5:15pm > 5:35pm	Brain-lung crosstalk after acute brain injury *K. Asehnoune, Nantes, France*
5:35pm > 5:55pm	Approaches to ventilator-patient dyssynchrony *L. Brochard, Toronto, Canada*
5:55pm > 6:15pm	Brainstem dysfunction in COVID-19 patients *B. Hermann, Paris, France*
6:15pm > 6:30pm	Question/Answers live

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