

# PAST, PRESENT, AND FUTURE OF BRAIN RESEARCH

## Inaugural Conference 2017 Programme

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**Wednesday, September 27<sup>th</sup>**

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**08:00 - 09:10      REGISTRATION**

**Session 1 – Chair: Daniel Choquet**

09:10-09:30      Welcome: **Daniel Choquet** and **Erwan Bézard**  
Introduction: **Christophe Mulle**

09:30-10:05      **Philippe Vernier** – Institut Neuro-PSI, Gif-sur-Yvette (FR)  
*Brain evolution through a fish's eye*

10:05-10:40      **Richard Tsien** – University of New York (US)  
*Neuromodulatory tuning of canonical microcircuits*

10:40-11:00      *Coffee break*

11:00-11:35      **Pierre Paoletti** – IBENS, Paris (FR)  
*Illuminating glutamate receptor structure and function*

11:35-12:10      **Jean-Philippe Pin** – Institut de génomique fonctionnelle, Montpellier (FR)  
*New possibilities to control brain function with mGluRs*

12:10-13:45      *Lunch break*

**Session 2 – Chair: Jean-René Cazalets**

13:45-14:20      **Marian Joëls** – Universitair Medisch Centrum Utrecht (NL)  
*The stressed brain*

14:20-14:55      **Arthur Konnerth** – Technical University of Munich (DE)  
*Dendritic signaling and integration in vivo*

14:55-15:30      **Frédéric Saudou** – Grenoble Institut des Neurosciences, La Tronche (FR)  
*Huntingtin: from axonal transport to neurotrophin signaling, energy supply and Alzheimer's disease*

15:30-15:50      *Coffee break*

15:50-16:25      **Dmitri Rusakov** – University College London (UK)  
*Activity-dependent plasticity of synaptic microenvironment*

16:25-17:00 **Hollis Cline** – The Scripps Research Institute, La Jolla (US)

17:00-17:35 **Thomas Jessel** – University of Columbia, New-York (US)  
*Interneuron diversity and function in the spinal cord*

18:30-22:00 *Cocktail reception*

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## Thursday, September 28<sup>th</sup>

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### Session 3 – Chair: Erwan Bézard

09:00-09:35 **Grégoire Courtine** – Ecole polytechnique fédérale de Lausanne (CH)  
*Neurotechnologies reversing paralysis*

09:35-10:10 **Antoine Triller** – Institut de biologie de l'ENS, Paris (FR)  
*Regulation of receptor-scaffold interactions at inhibitory synapses*

10:10-10:45 **Christine Petit** – Institut Pasteur, Paris (FR)  
*The hidden face of hereditary deafness*

10:45-11:05 *Coffee break*

11:05-11:40 **Eckart Gundelfinger** – Leibniz Inst. for Neurobiology, Magdeburg (DE)  
*Neuroplastin, a gene to remember*

11:40-12:15 **Richard Huganir** – The Johns Hopkins University School of Medicine, Baltimore (US)  
*Regulation of neurotransmitter receptors and synaptic plasticity in the brain*

12:15-13:45 *Lunch break*

### Session 4 – Chair: Christophe Mulle

13:45-14:20 **Larry Swanson** – USC IBRO, Los Angeles (US)  
*Connectomics architecture of the cortical association-commissural network*

14:20-14:55 **Claudia Bagni** – VIB Center for the Biology of Disease, Leuven (BE)  
*Molecular basis of brain wiring and social behaviour*

14:55-15:15 *Coffee break*

15:15-15:50 **Erin Schuman** – Max Planck Institute, Frankfurt (DE)  
*Local translation in neurons*

17:15-21:30 Inauguration of the **Centre Broca Nouvelle-Aquitaine** organized by the *Conseil régional Nouvelle-Aquitaine* and the University of Bordeaux

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**Friday, September 29<sup>th</sup>**

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**Session 5 – Chair: Pier-Vincenzo Piazza**

- 09:30-10:05     **Robert Malenka** – Stanford University School of Medicine, Palo Alto (US)  
*Rabies virus-based screening of drug-induced circuit changes*
- 10:05-10:40     **Markus Heilig** – Linköping University (SE)  
*Developing neuroscience based treatments for alcohol addiction*
- 10:40-11:00     *Coffee break*
- 11:00-11:35     **Daniele Piomelli** – University of California, Irvine (US)  
*The future of endocannabinoid-based therapeutics*
- 11:35-12:10     **James Surmeier** – Northwestern University, Chicago (US)  
*Selective neuronal vulnerability in Parkinson's disease*
- 12:10-13:45     *Lunch break*

**Session 6 – Chair: Sophie Layé**

- 13:45-14:20     **Michael Sheetz** – National University of Singapore (SG)  
*Modular machines for mechanosensing in neurons*
- 14:20-14:55     **Ana Domingos** – Instituto Gulbenkian de Ciencia, Oeiras (PT)  
*Sympathetic obesity*
- 14:55-15:30     **Scott Waddell** – University of Oxford (UK)  
*Neural circuit mechanisms for re-evaluating learned information*
- 15:30-15:50     Closing remarks