

Neuron-Glia Interactions an EITN Workshop

10-11 December 2015

Program

Day 1

9.00 – 9.30	Coffee and Croissants	
9.30-10.00	Welcome and introduction of the 1st day	Alain Destexhe (CNRS) and Marja-Leena Linne (TUT)
10.00 –11.00	Brain energy metabolism and glia	Corrado Cali EPFL, Kaust
11.00 –11.30	Coffee break	
11.30 – 12.15	Modeling of astrocyte structure and regulation of metabolism	Daniel Keller and Corrado Cali EPFL and Kaust
12.15 – 12.45	Discussion and conclusions of Session 1	Moderators: Marja-Leena Linne, Daniel Keller
12.45 – 14.00	Lunch and discussions	
14.00 – 14.45	Role of astroglial connexins and neuroglial interaction	Christian Giaume College de France
14.45 – 15.30	Modeling calcium waves in astrocyte networks	Hugues Berry INRIA, Lyon
15.30 – 16.00	Coffee break	
16.00 – 16.45	Electrodifusive modeling of ion-concentration dynamics in astrocytes and ECS	Geir Halmes NMBU
16.45 – 17.45	Discussion and conclusions of Session 2	Moderators: Alain Destexhe Hugues Berry

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Day 2

9.00 – 9.15	Introduction of the 2nd day	Marja-Leena Linne
9.15 – 10.15	What can we learn from precise control of astrocyte signaling?	Cendra Agulhon Paris Descartes University
10.15 – 11.00	Neuron-glia interactions in corticostriatal information processing	Laurent Venance College de France
11.00 – 11.30	Coffee break	
11.30 – 12.15	Astrocyte plasticity: Implications for synaptic and neuronal activity	Tiina Pirttimäki Univ. of Kuopio
12.15 – 12.45	Discussion and conclusions of session 3	Moderators: Marja-Leena Linne, Laurent Venance
12.45 – 14.00	Lunch and discussions	
14.00 – 15.00	Simultaneous in vivo recordings of astroglial and neuronal activities	Florin Amzica University of Montreal
14.45 – 15.30	Computational modeling of astrocytes and astrocyte-neuron interactions	Marja-Leena Linne and Tiina Manninen (Tampere Univ. of Technology)
15.30 – 16.00	Coffee break	
16.00 – 17.00	Discussion and conclusions of session 4	Moderators: Alain Destexhe Austra Saudargiene (Vytautas Magnus University)
17.00	End of workshop	