

## LOCAL ORGANIZERS

Claudia Bagni - Camilla Bellone - Anthony Holtmaat - Manuel Mameli



# FINAL PROGRAM



# 7th EUROPEAN SYNAPSE MEETING

*September 2 - 4, 2019*

**LAUSANNE, Switzerland**

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## Monday Sept 2

13.00 / 14.15	Registration
14.15 / 14.30	Welcome and Opening remarks
14.30 / 15.30	Keynote lecture Erin Schuman (Max Planck Institute for Brain Research Frankfurt): TBA Discussion leader: Claudia Bagni (DNF University of Lausanne)
15.30 / 16.00	Coffee Break
<b>Session 1: Synaptic development</b> Discussion leader: Esther Stoeckli (UZH Zurich)	
16.00 / 16.30	Juan Burrone - Centre for Developmental Neurobiology London: Activity-dependent plasticity of axo-axonic synapses at the axon initial segment
16.30 / 17.00	Mike Fainzilber (Weizmann Institute of Science): The Importins of Behavior
17.00 / 17.30	Joris de Wit (VIB Leuven): Proteomic dissection of the cell-surface protein repertoire specifying mossy fiber synapse identity
2 Short talks	
17.30 / 18.00	Oriane Mauger (Biozentrum Basel): Targeted intron retention and excision for rapid gene regulation in response to neuronal activity Marc Van Oostrum (ETH Zurich): Neuronal surfaceome dynamics and surface trafficking during synapse formation and synaptic plasticity
18.00 / 20.00	Reception and Poster session I
20.30	Speakers Dinner

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## Tuesday Sept 3

### Session 2: Neuro-Glia Interaction

Discussion leader: Paola Bezzi (DNF University of Lausanne)

09.00 / 09.30	Nathalie Rouach (College de France Paris): Exploring astroglial glutamine transfer with novel dye: where? when? How? And what for?
09.30 / 10.00	Cagla Eroglu (Duke University): How do Glia Sculpt Synaptic Circuits?
10.00 / 10.30	Thora Karadottir (University of Cambridge): tba
2 Short talks	
10.30 / 11.00	Rosa Chiara Paolicelli (University of Lausanne): Synaptic consequences of selective microglial TDP-43 depletion  Csaba Foldy (Brain Research Zurich): Molecular mechanisms behind adult brain rewiring
11.00 / 11.30	Coffee Break

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## Tuesday Sept 3

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### Session 3: Synaptic Function & Transmission

Discussion leader: Ralf Schneggenburger (EPFL Lausanne)

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**11.30 / 12.00** Jeremy Henley (MRC Centre of synaptic plasticity Bristol): Mechanisms of cannabinoid receptor type 1 (CB1R) trafficking and axonally polarised surface expression

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**12.00 / 12.30** Vassiliki Nikolettou (IMBB-FORTH Crete): Cell type-specific requirements of autophagy for synaptic plasticity

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**12.30 / 13.00** Michael Kreutz (Integrative Neuroscience Centre Magdeburg): How local organelles serve synaptic function

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2 Short talks

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**13.00 / 13.30** Matt Udakis (Bristol University): Divergent plasticity at parvalbumin and somatostatin inhibitory synapses onto CA1 pyramidal neurons shapes hippocampal output

Annunziato Morabito (ICM Paris): Zinc as a gatekeeper of dendritic non-linearities and synaptic plasticity in cortical networks

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**13.30 / 15.00** Lunch and Poster Session II

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## Tuesday Sept 3

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### Session 4: Synaptic circuits and brain function

Discussion leader: Andreas Luthi (FMI Basel)

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15.00 / 15.30	Raffaella Tonini (Italian Institut of Technology): <i>Neuromodulated plasticity at excitatory synapses of the noradrenergic Locus Coeruleus</i>
15.30 / 16.00	Tiago Branco (Sainsbury Wellcome Centre London): Synaptic control of escape decisions
16.00 / 16.30	Fred Gambino (Institute for Interdisciplinary Neuroscience Bordeaux): Sensory-driven LTP initiates adaptive behaviors during cortical remapping
2 Short talks	
16.30 / 17.00	Cordelia Imig (University of Goettingen): Freeze Frame Shots of Synapses in Action: Correlating Presynaptic Ultrastructure and Function at the Nanoscale Nicky Scheefhals (Utrecht University): Resolving the functional organization of postsynaptic glutamate receptors
17.00 / 21.00	Free time and free dinner
21.00 / ...	Lunch Party for all the attendees at <a href="#">Le Lacustre</a>

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## Wednesday Sept 4

### Session 5: Synaptopathies

Discussion leader: Alexandre Dayer (University of Geneva)

09.00 / 09.30	Patrik Verstreken (VIB Leuven): Targeting Tau-induced presynaptic defects
09.30 / 10.00	Helmut Kessels (The University of Amsterdam): Synaptic Plasticity through activation of AMPA-receptor subunit GluA3
10.00 / 10.30	Fabrizio Gardoni (The University of Milan): Anti-GluA3 antibodies in frontotemporal dementia: effects on glutamate neurotransmission and synaptic failure
10.30 / 11.00	2 Short talks Marilena Griguoli (EBRI Rome): Possible implication of the CA2 hippocampal circuit in social deficits observed in the neuroligin 3 knock-out mouse, an animal model of Autism  Dominique Fernandes (University of Coimbra): Disrupted AMPA receptor function and synaptic plasticity upon genetic- or antibody-mediated loss of autism-associated CASPR2
11.00 / 11.30	<i>Coffee Break</i>
11.30 / 12.30	Keynote lecture - Jeff Magee (Baylor College of Medicine Houston): Mechanisms of experience-dependent hippocampal representations Discussion leader: Thomas Nevian (University of Bern)
12.30 / 14.00	<i>Closing remarks and Lunch</i>