

# Barrels Conference 2018

Day 1, Thursday, 24th May, 2018

08:30 – 09:00	Registration
09:00	Opening Remarks ( <b>Jochen Staiger</b> )
<b>09:00 – 11:00</b>	<b>Session 1: Whisker-based perception (Chair: Jochen Staiger)</b>
09:05 – 09:40	<b>Randy Bruno</b> - Sensation, Movement & Learning in the Absence of Barrel Cortex
09:45 – 10:20	<b>Jianging Yu</b> - Behavior-relevant inhibition in somatosensory cortex during active touch
10:25 – 11:00	<b>Cornelius Schwarz</b> - Local codes in tactile perception
<b>11:00 – 11:45</b>	<b>Posters and Coffee break</b>
11:45 – 12:45	PLENARY LECTURE 1 <b>Massimo Scanziani</b> - A primary Visual Cortex for the Processing of Collicular Information
<b>12:45 - 14:15</b>	Lunch break
<b>14:15 – 16:15</b>	<b>Session 2: Cortex outside the barrel universe (Chair: Oliver Schlüter)</b>
14:20 – 14:55	<b>Siegrid Löwel</b> - Promoting plasticity in the visual cortex: How to keep the brain young?
15:00 – 15:40	<b>Joshua Trachtenberg</b> - Branch-specific dendritic integration during critical periods of cortical plasticity
15:45 – 16:20	<b>Nathalie Rochefort</b> - Neuronal circuits plasticity during learning of a visually-guided task in the mouse primary visual cortex
<b>16:20 - 17:20</b>	<b>Posters and Coffee break</b>
17:20 - 19:20	<b>Short talk Session (Chair: Dirk Feldmeyer)</b>
17:20 - 17:35	<b>Francois Pauzin</b> - A corticothalamic circuit for refining tactile encoding
17:35–17:50	<b>Sebastian Bitzenhofer</b> - Layer-specific networks in the developing prefrontal cortex
17:50 – 18:05	<b>Guanxiao Qi</b> - A reappraisal of the morpho-functional diversity of fast-spiking interneurons in layer 4 of rat barrel cortex
18:05 - 18:20	<b>Hind Baba Aissa</b> - Cerebello-cortical coupling via the medial posterior thalamus: role in whisker-dependent texture discrimination.
18:20–18:35	<b>Asli Ayaz</b> - Layer-specific integration of locomotion and concurrent wall touching in mouse barrel cortex
18:35 – 18:50	<b>Mototaka Suzuki</b> - Wakefulness enhances dendro-somatic coupling of cortical layer 5 pyramidal neurons
18:50–19:05	<b>Waja Wegner</b> - In vivo STED microscopy of PSD95 and Gephyrin in the visual cortex of the living mouse
19:05 – 19:20	<b>Clarissa Whitmire</b> - Thalamic state modulation of tactile encoding in the thalamocortical circuit
<b>19:30</b>	<b>BBQ Dinner &amp; Posters</b>

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Day 2, Friday, 25th May, 2018

09:00 - 09:45	SPECIAL LECTURE <b>Alison Barth</b> - High-throughput anatomical approaches to experience-dependent rewiring of the cortical column
<b>09:45- 11:30</b>	<b>Session 3: Cell types and their functions in cortical circuits (Chair: Livia de Hoz)</b>
09:45 -10:20	<b>Solange Brown</b> - Diversity of cortical neurons: Lessons from layer 6
10:20 - 10:55	<b>Thomas Klausberger</b> - Prefrontal circuits for decision making
10:55 - 11:30	<b>Jean-Sebastien Jouhanneau</b> - Single synaptic inputs drive spiking in PV neurons in vivo
<b>11:30 - 12:00</b>	<b>Posters and Coffee</b>
12:00 - 13:00	PLENARY LECTURE 2 <b>Kenneth Harris</b> - High-dimensional geometry of the cortical population code revealed by 10,000-neuron recordings
<b>13:00 - 14:30</b>	<b>Lunch break</b>
<b>14:30 - 16:30</b>	<b>Session 4: Sensory information processing beyond primary cortices (Chair: Christiaan de Kock)</b>
14:30 - 15:00	<b>Christiaan de Kock</b> - Functional architecture of rat posterior parietal cortex during tactile sensorimotor behavior
15:00 - 15:30	<b>Fritjof Helmchen</b> - Role of posterior association areas in mouse neocortex for sensory discrimination
15:30 - 16:00	<b>Rebecca Mease</b> - Synchrony and spike time encoding in the higher-order whisker thalamus
16:00 - 16:30	<b>Michael Brecht</b> - Sexual touch, puberty and sex-hormone action in the somatosensory cortex
16:30	Concluding remarks and awards ( <b>Christiaan de Kock</b> )