

## Schedule

Time	Speaker	Topic
9:00-9:05	<b>Welcome / Workshop Mechanics</b>	
<b>Resilience</b>		
9:05-9:25	<b>Oliver Tüscher &amp; Team</b>	How to integrate self-report data qualitatively and over time Searching for a neural signature of interference inhibition across cognitive control domains
9:25-9:35	(Discussion)	
9:35-10:05	<b>Raffael Kalisch</b> <b>Kenneth Yuen</b> <b>Benjamin Meyer</b>	Integrative analysis and modelling of multidimensional longitudinal real-world data Multivariate and multidimensional modeling of functional neuroimaging data Using resting state functional MRI to predict task-related brain
10:05-10:20	(Discussion)	
10:20-10:30	<b>Coffee Break</b>	
<b>Genes and Gene Regulation</b>		
10:30-11:00	<b>Susann Schweiger</b> <b>Jennifer Winter</b> <b>Matthias Linke</b>	The Tsc2KO mouse model to study the influence of aberrations in mTOR homeostasis on synaptic function in the hippocampus and the cortex MicroRNA (mis)regulation in neurodevelopment Transgenerational epigenetic inheritance of chronic social defeat experience and altered resilience capacity
11:00-11:15	(Discussion)	
11:15-11:25	<b>Federico Marini</b>	Interactivity meets Reproducibility: the ideal way of doing RNA-seq analysis
11:25-11:30	(Discussion)	
11:30-11:40	<b>Filippo Calzolari</b>	Deciphering activity-dependent patterns of gene expression activity and their impact on oligodendroglial dynamics
11:40-11:45	(Discussion)	
11:45-11:55	<b>Benedikt Berninger</b>	Probing human neurogenesis by direct lineage reprogramming
11:55-12:00	(Discussion)	

12:00-13:00	<b>Lunch Break</b> (provided for registered participants)	
<b>Systems and Network Approaches</b>		
13:00-13:10	<b>Susanne Gerber</b>	Integration of Omics Data - a Systems Genetics approach
13:10-13:15		(Discussion)
13:15-13:25	<b>Stefan Mueller-Stach</b>	Persistent homology: invariants of topological data
13:25-13:30		(Discussion)
13:30-13:40	<b>Simon Rumpel</b>	Dynamics of neuronal networks in the neocortex
13:40-13:45		(Discussion)
13:45-13:55	<b>Michael Wand</b>	Open questions in "deep" representation learning
13:55-14:00		(Discussion)
<b>Data Analysis and Prediction</b>		
14:00-14:10	<b>Klaus Lieb</b>	Machine-learning based prediction of clinical cornerstones in depression
14:10-14:15		(Discussion)
14:15-14:25	<b>Marion Silies</b>	Genetic dissection of motion computation
14:25-14:30		(Discussion)
14:30-14:45	<b>Coffee Break</b>	
14:45-14:55	<b>Maik Stüttgen</b>	Spikes, sensations, and decisions
14:55-15:00		(Discussion)
15:00-15:20	<b>Muthuraman Muthuraman</b>	Network analyses Machine Learning
15:20-15:30		(Discussion)
<b>Extension Session</b>		
15:30-15:55	<b>N.N.</b>	General discussion, ad-hoc presentations (~5+5min each).
15:55-16:00	<b>Closing Session</b>	
from 16:00	Opportunities for further informal discussion (Coffee provided)	

**Notes:** Talks slots are 10min +5min discussion (listed separately above).

Feel free to make them shorter for more discussion. Please take setup time into account (i.e., do not use the full 10min slot for talking). Group blocks are scheduled so that talk time can be freely allocated between the different topics