



Neuroscience Lecture Bonn Center of Neuroscience

Cortex-wide imaging of excitatory cell types during multisensory decisionmaking

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Understanding how cortical circuits generate complex behavior requires investigating the cell types that comprise them. Here, much effort has been focused on inhibitory neuron types but the functional roles of distinct classes of excitatory pyramidal neurons (PyNs) are less well understood. We, therefore, used widefield imaging to measure the cortexwide activity of distinct PyN types and investigated their functional role in mice that performed an auditory decisionmaking task. In the frontal cortex, all PyN-types reduced animal performance, suggesting that they are equally involved in choice formation and execution. Our work reveals PyNspecific, cortex-wide dynamics and strongly supports the view that local circuits throughout the cortex perform parallel computations, even within the same cortical layer.

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Epileptology, Seminar Room 0266, Building 083



If you would like to meet with the speaker, please contact:

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