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Seth Grant

Centre for Clinical Brain Sciences
The University of Edinburgh, Scotland

The role of synapse diversity and synaptome architecture in behaviour and disease

The synaptome architecture (SA) encompasses the remarkable spatial arrangement and organization of diverse excitatory synapse types and subtypes within the mammalian brain. Diverse synapses are found within every dendrite, neuron and brain region. The SA offers a novel perspective for comprehending the encoding of information, such as behavioural patterns and cognitive representations, influenced by the interplay of genetic and environmental factors. In this discussion, we will delve into the dynamic attributes of the SA, highlighting the pivotal role of synaptic protein turnover in shaping the SA and how it can be altered by mutations in disease-related genes and environmental experiences.

Thursday, 11.04.2024, 11:00

Host: Nils Brose

