

IGSN - SYMPOSIUM

Monday, March 18th 2024 • 15.00 (3 pm)

FNO – 01 / 117

Brain Dynamics in Behavior and Stimulation

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Neural Responses in V1: Encoding Visual Perception and Eye Movements

The primary visual cortex (V1) plays a fundamental role in visual perception, serving as the initial cortical area for processing visual information. V1 was predominantly associated with encoding local stimulus attributes, acting as a precursor to more complex pattern recognition in higher visual areas. However, accumulating evidence has significantly expanded our understanding of V1's responses, uncovering its involvement in higher visual functions and its role in fixational eye movements and active sensing.

We studied these topics using long-term voltage-sensitive dye imaging in the visual cortex of behaving monkeys. In this lecture I will review our recent progress on these topics.

Host:

DIRK JANCKE, FATMA KARAMA

Optical Imaging Group, Institute for Neural Computation, Ruhr University Bochum

