



OIST

OKINAWA INSTITUTE OF SCIENCE AND TECHNOLOGY
沖縄科学技術大学院大学

THEORETICAL SCIENCES VISITING PROGRAM

TSVP TALK

MODELING NEURON-ASTROCYTE INTERACTIONS IN THE BRAIN

Rescheduled

2022
THU. AUG. 4TH

16:00 - 17:00

HYBRID L4E48, ZOOM



For zoom and other details scan QR code or visit groups.oist.jp/tsvp



Astrocytes, a type of glial cells in the brain, are actively involved in neuronal information processing and memory formation. Using computational and in vitro models, we investigate the tight interaction of neurons and astrocytes. In diseases like epilepsy and schizophrenia, for example, the uptake and release of neurotransmitters, the ion exchange, and the astrocyte morphology are altered. With the aid of our models, we investigate those aspects on several temporal and spatial levels.

GRAZ UNIVERSITY OF TECHNOLOGY

KERSTIN LENK

Kerstin Lenk is an assistant professor of Computational Neuroscience at the Graz University of Technology in Austria. She has received a PhD in Computer Science from the Clausthal University of Technology in Germany. Her group focuses on the development of computational single-cell astrocyte and neuron-astrocyte network models in healthy conditions and pathologies like epilepsy and schizophrenia.

<https://groups.oist.jp/tsvp>

CONTACT

FAO (Office of Dean of Faculty Affairs)



tsvp@oist.jp