

The Neuroscience Lecture Series

September 2025 - June 2026

Description: With the *Neuroscience lecture series* the Institute of Physiology and Center for experimental Neurology foster qualitative scientific interactions with renowned national and international guest speakers. Scientific talks present state-of-the-art research and newest discoveries in cognitive, systems and computational neuroscience as well as neuro-engineering. Lectures are typically preceded or followed by a visit of the facilities and a round-table with the students. The Neuroscience lecture series builds upon previous seminar series at the Institute of Physiology, University of Bern and at the Department of Neurology, Inselspital University Hospital Bern.

Credits: 2 ECTS points. For credits, students must attend at least 80 % of the lectures and pass an exam based on lectures and materials provided by the speakers. Exam include multiple choice questions provided by speakers and lecture contents, and are schedule by the end of the second semester.

Registration for credits: by e-mail to administration.zen@insel.ch, please indicate full name, PhD-program and supervisor Organ

Venue: Lectures are typically scheduled on Fridays 12.00-13.00 at one of our venues (see below) except when specified otherwise (*), for example in the context of a PhD defense.

- INO B 118: Lecture room of the department of Neurology, Inselspital, Freiburgstrasse 18
- Physio: Seminar room, Institute of Physiology, Bühplatz

Organisers/chairs: Prof. Antoine Adamantidis, PhD; Prof. Stéphane Ciochi, PhD; PD Carolina Gutierrez Herrera, PhD; Prof. Maxime Baud, MD; e-mail to administration.zen@insel.ch for questions.

| Date/Place | Speaker | Title | Chair |
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| 17.10.2025 INO B118 | Prof. Robbert Havekes Faculty of Science and Engineering , University of Groningen | Restoring access to memories thought-to-be lost in the sleep-deprived brain. | Carolina Gutierrez Herrera |
| 31.10.2025 INO B118 | Prof. Ana Luisa Carvalho , Center for Neuroscience and Cell Biology , University of Coimbra (PT) | MicroRNA-Mediated Control of Synaptic Transmission and Neuronal Network Activity in Chronic Stress | Antoine Adamantidis |
| 07.11.2025 | SWEZ - ZEN Symposium | | |
| 14.11.2025 Physio | Dr. Everton Agnes , Biozentrum , University of Basel (CH) | Excitatory inhibitory balance at the dendrite: A mechanism for context-dependent associative memory | Mihai Petrovici |
| 21.11.2025 Physio | Dr. Stephane Oliet , Astrocytes in health and disease , University of Bordeaux | Contribution astrocytes to NMDAR-dependent synaptic plasticity | Thomas Nevian |
| 05.12.2025 11:00-12:00 Physio | Prof. Chris Petkov Department of Neurosurgery, University of Iowa | Laminar Circuit Motifs for Language (Precursors) and Memory | Athina Tzovara |
| 05.12.2025 12:00-13:00 Physio | Prof. Valerio Mante , ETH Zürich | Communication-through-dynamics: Inferring multi-area computations through neural variability. | Stéphane Ciochi |
| Christmas/Semester BREAK | | | |

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| 13.02.2026 INO B118 | Prof. Gioele La Manno , Brain Mind Institute , EPFL | Revealing the Lipidomic Architecture of the Brain | Antoine Adamantidis |
| 20.02.2026 INO B118 | Prof. Arianna Maffei Stony Brook University | Cortical Mechanisms for Taste Preference | Carolina Gutierrez Herrera |
| 27.02.2026 INO B118 | Sabine Krabbe , Functional Diversity of Neural Circuits , DNZE (DE) | Functional diversity of amygdala microcircuits | Micaela Borsa |
| 27.03.2026 INO B118 | Prof. Lukas Neukomm Department of fundamental Neurosciences, University of Lausanne | Hijacked NAD ⁺ metabolism in axon- and neurodegeneration | Stéphane Ciocchi |
| 10.04.2026 INO B118 | Prof. Frédéric Bretzner Department of Psychiatry and Neuroscience, Université Laval, Quebec (CA) | Genetic dissection of subcortical circuits pertaining to motor control and recovery of locomotion after spinal cord injury | Pernet Vincent |
| 17.04.2026 INO B118 | Thomas Andrillon , Paris Brain Institute, INSERM | Sleep without borders: local aspects of sleep in sleep and wakefulness | Athina Tzovara |
| 15.05.2026 B118 | Prof. Nora Abrous , Bordeaux Neurocampus , INSERM | Role of adult born hippocampal neurones in the physiology and physiopathology of memory | Antoine Adamantidis |
| 22.05.2026 Physio | Prof. Jasmin Hefendehl , Goethe Universität Frankfurt | The role of stromal progenitor cells in recovery post stroke | Steven Proulx |
| 29.05.2026 INO B118 | Prof. Friedhelm Hummel , Brain Mind Institute, EPFL | Orchestrated Neuromodulation to enhance motor and cognitive functions in health and neurological disorders | Maxime Baud |
| 05.06.2026 INO B118 | Tommaso Fellin , Italian Institute of Technology (IT) | Aberration corrected microendoscopes for extended field-of-view deep brain imaging | Carolina Gutierrez Herrera |

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| | | in benchtop and miniaturized two-photon microscopes | |
| 19.06.2026 INO B118 | NLS Test | Multiple-choice test | |
| 03.07.2026 Physio | Special NLS Dr. Xu Chun | Single-cell spatial transcriptome and connectome of the hippocampus | Stéphane Ciochi |

AA: Antoine Adamantidis
SC: Stéphane Ciochi
CGH: Carolina Gutierrez Herrera
MB: Maxime Baud
SP: Steven Proulx
TV: Thomas Nevian
MP: Mihai Petrovici