

The Neuroscience Lecture Series

October 2022 - June 2023

Description: The Neuroscience lecture series builds upon previous seminar series at the Institute of Physiology and the BENESCO Lectures at the Department of Neurology, Inselspital University Hospital Bern. Our guest speakers are renowned national and international scientists who present state-of-the-art research and newest discoveries in cognitive, systems, computational neuroscience or neuro-engineering.

Lectures are scheduled on Fridays 12.00-13.00 at the Inselspital or Inst. of Physiology (see planning).

Credits: 2 ECTS points. For credits, students must attend at least 70 % 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 semesters.

Registration: by e-mail to flurina.kempf@insel.ch, please indicate full name, PhD-program and supervisor

Organizers: Prof. Antoine Adamantidis, PhD; Prof. Maxime Baud, MD, PhD; Prof. Stéphane Cioocchi, PhD

Date	Place	Topic	Speakers
07.10.2022	INO B 118	"Mnemonic and predictive processing in the auditory cortex" Chair: Athina Tzovara	Ryszard Aukstulewicz, Center for Cognitive Neuroscience Berlin, Freie Universität Berlin, Germany
14.10.2022	INO B 118	"Cardio-audio regularity encoding during human wakefulness, sleep and coma" Chair: Athina Tzovara	Marzia De Lucia, Laboratoire de Recherche en Neuroimagerie (LREN), University Hospital (CHUV) and University of Lausanne (UNIL), Lausanne, Switzerland
21.10.2022	INO B 118	"Motivational functions of the human midbrain" Chair: Antoine Adamantidis	Philippe Tobler, Zurich Center for Neuroeconomics, University of Zurich, Switzerland
28.10.2022	INO B 118	<i>tbc</i>	
02.11.- 04.11.2022	Hörsaal Langhans	26. Berner Schlaf-Wach-Epilepsie Tage	
11.11.2022	INO B 118	"The synergy of clinical and cognitive neuroscience: examples from frontotemporal dementia and language" Chair: Athina Tzovara	Valentina Borghesani, Faculty of Psychology and Educational Sciences, University of Geneva, Switzerland
18.11.2022	INO B 118	"The importance of intrinsic network states for behavior and learning" Chair: Antoine Adamantidis	Adrian Guggisberg, Universitätsklinik für Neurologie, Bern, Switzerland Universitäre Neurorehabilitation Inselspital, Universitätsspital Bern, Switzerland
25.11.2022	INO B 118	"Top-down signaling for control of neocortical threat memory" Chair : Maxime Baud	Johannes Letzkus, Institute for Physiology, University of Freiburg, Germany

02.12.2022	INO B 118	“Deciphering the mystery of sleep: toward the molecular substrate for “sleepiness” Chair: Antoine Adamantidis	Masashi Yanagisawa, International Institute for Integrative Sleep Medicine, The University of Tsukuba, Japan
09.12.2022	INO B 118	“Spatial encoding of forelimb proprioception in the mouse somatosensory cortex” Chair: Antoine Adamantidis	Mario Prsa Université de Fribourg, Switzerland
16.12.2022	Inst. Physiol.	“Neuronal circuits for encoding and retrieving appetitive and aversive memories in mice” Chair: Antoine Adamantidis	Stéphanie Trouche, Institute of Functional Genomics INSERM, Department of Neuroscience, Montpellier, France
PROGRAM spring term			
03.02.2023	INO B 118	“Hippocampal rhythms and large-scale vascular dynamics during natural behavior and sleep. Insights from functional ultrasound imaging” Chair: Antoine Adamantidis	Antoine Bergel, a Marie Skłodowska-Curie Postdoctoral Fellow between McGill University (Montreal Neurological Institute, Peyrache Lab) and ESPCI Paris (Brain & Plasticity Unit, Benchenane Lab)
10.02.2023	INO B 118	“Normative models of synaptic plasticity” Chair: Athina Tzovara	Jean-Pascal Pfister, University of Bern, Department of Physiology, Bern, Switzerland
17.02.2023	INO B 118	“The emotional functions of sleep and dreams: implications for psychiatry” Chair: Antoine Adamantidis	Lampros Perogamvros, Center for Sleep Medicine, Department of Psychiatry, University Hospitals of Geneva, Geneva, Switzerland
24.02.2023	Inst. Physiol.	„Hidden nature of seizures“ Chair : Maxime Baud	Premysl Jiruska, Department of Physiology, Second Faculty of Medicine, Charles University, Prague, Czech Republic
03.03.2023	Inst. Physiol.	“On the complex dynamics of hippocampal epileptogenic circuits” Chair: Maxime Baud	Liset M. de la Prida, Instituto Cajal CSIC, Madrid, Spain
10.03.2023	Inst. Physiol.	No lecture	
17.03.2023	Inst. Physiol.	“Memory aids on the chromatin - Epigenetic mechanisms before and after memory formation” Chair: Stéphane Ciochi	Johannes Gräff, Brain Mind Institute, School of Life Sciences, Ecole Polytechnique Fédérale de Lausanne (EPFL), Lausanne, Switzerland
24.03.2023	ZOOM	“Disorders of the immunoregulatory network in various neurological diseases - what do we learn from this for diagnostics and therapy?” chair: Anke Salmen, Robert Hoepner	Luisa Klotz, Klinik für Neurologie mit Institut für Translationale Neurologie, Universitätsklinikum Münster, Germany
07.04.2023		Karfreitag / Good Friday	

14.04.2023	INO B 118	“Memory formation during sleep: Information reactivation and transfer in the hippocampal-prefrontal network” Chair: Maxime Baud	Randolph Helfrich, Hertie Institute for Clinical Brain Research, University Medical Center Tübingen, Germany
21.04.2023	INO B 118	“Development of Implantable BCI Technology for Communication, and Translation to Clinical Applications” Chair : Maxime Baud	Nick Ramsey, Brain Center, University Medical Center Utrecht, Utrecht, Netherlands
28.04.2023	INO B 118	“Transcriptional controls over projection neuron diversity” Chair : Carolina Gutierrez-Herrera	Esther Klingler, University of Geneva, Department of Basic Neurosciences, Jabaudon lab
05.05.2023	INO B 118	“The role of stress-driven synaptic plasticity within hypothalamic-midbrain circuits in binge eating behavior” Chair : Stéphane Ciocchi	Frank Meye, Department of Translational Neuroscience, Utrecht University Medical Center, Utrecht, The Netherlands
12.05.2023	INO B 118	“Best practices in research leadership: women in science and medicine” Chair : Athina Tzovara	Susan M. Gasser, University of Lausanne, Prof in the Department of Fundamental Microbiology and, Director, Fondation ISREC, 1005 Lausanne
19.05.2023		Auffahrt/Ascension Day	
26.05.2023	INO B 118	<i>Title follows</i> Chair: Antoine Adamantidis	Jan Gründemann, Deutsches Zentrum für Neurodegenerative Erkrankungen e. V. (DZNE), Bonn, Germany
02.06.2023		Exam	
16.06.2023	INO B 118	“Neural manifold for speech processing” Chair: Maxime Baud	Timothee Proix, Department of Basic Neurosciences, Faculty of Medicine, University of Geneva, Geneva, Switzerland