



Progress Report Seminar - Fall Semester 2021

Time: Tuesday at 8:30 a.m.

Date	Speaker/Group Title	Chair
August 3, 2021	Andrin Abegg / ST	Fabio Carbone /HPL
	<i>Synaptic Phosphorylation Events Control Memory Engram and Network Processes</i>	
	Csagla Özsoy / DR	
	<i>Development of Optoacoustic Methods for Ultrafast Cardiac Imaging and Treatment Monitoring</i>	
August 10, 2021	Reto Cola / TP	Berkan Lafci / DR
	<i>Development and Validation of Genetically- encoded Sensors</i>	
	Jacqueline Condrau /BW	
	<i>Two-Photon Imaging of Cerebral Capillary Hemodynamics at Rest</i>	
August 17, 2021	Weiye Li / DR	Loïc Duffet / TP
	<i>Longitudinal Monitoring of Murine Skull Development with Large-scale Optoacoustic Microscopy</i>	
	Dominic Bond / SB	

August 24, 2021	Simon Daquin / HUZ	Quanyu Zhou / DR
	<i>Top-down Pain Control by Spinally Projecting Cortical Neurons</i>	
	Tanja Rothgangl / GS	
	<i>Precise Genome Editing In-vivo</i>	
August 31, 2021	Lea Scherer / HPL	Jan Deric / BW
	Mohammad Hleihil / HUZ	
	<i>Restoring GABA(B) Receptor Expression in Cerebral Ischemia as a Neuroprotective Strategy</i>	
September 7, 2021	Robert Ganley / HUZ	Kim Ferrari / BW
	<i>Cells and Circuits of Descending Pain Modulation</i>	
	Nicolas Mathis / GS	
	<i>PRIDICT'' – Prime Editing Guide RNA Design Made Easy</i>	
September 14, 2021	Afroditi Eleftheriou / BW	Musadiq Bhat / HUZ
	<i>Cerebral Glucose Uptake and Metabolism by GlucoCEST MRI and Fiber Photometry</i>	
	Raquel Mendes / HUZ	
	<i>Visualization of GRP and GRPR Neurons' Activation in the Spinal Cord</i>	
September 21, 2021	General Assembly	



September 28, 2021	Zoe Looser / AS	Marta Figueiredo / ST
	<i>The Role of Potassium in Axon-Glial Signaling and Metabolic Coupling</i>	
	Waleed El Grawani / SB	
	<i>Local Sleep: How Do Cortical Networks Decide?</i>	
October 5, 2021	Lukas Glandorf /DR	Konstantinos Kompotis / SB
	<i>Volumetric Label-free Imaging with Extended-Focus Optical Coherence Microscopy</i>	
	Lucas Kissling/ GS	
	<i>In vitro and in vivo Screens for Targetable Single Base Mutations in Brain and Liver Disorders</i>	
October 12, 2021	Zacharoula Kagiampaki / TP	Corinne Eicher / HPL
	<i>A Novel Chemogenetic Approach for High-definition Dopamine Imaging In-vivo</i>	
October 19, 2021	Eleonora Ioannidi / GS	Sara Pierre-Ferrer / SB
	<i>Applications of Prime Editing</i>	
	Teresa Cramer / ST	
	<i>Novel ECM Protein Adamts13 Regulates Critical Period Plasticity</i>	
October 26, 2021	Noor Khalid / MA	Benjamin Campbell / ST
	<i>Substrate Identification and Functional Analysis of Microsome Epoxide Hydrolase</i>	

	Pascal Imseng / BW	
	<i>Cell Specific Cerebral Metabolic Processes, on a Bulk- and Single-Cell Level in Health & Disease</i>	
November 2, 2021	Sharan Janjuha / GS	Reto Cola / TP
	<i>Visualizing In-vivo Base Editing in Tissues Using In-situ Sequencing</i>	
	Sandeep Kalva / DR	
	<i>Single-sweep Volumetric Optoacoustic Tomography for Whole Body Imaging of Mice</i>	
November 9, 2021	Marilia Sousa / HUZ	Urs Hofmann / DR
	<i>Functional and Anatomical Characterization of Serotonergic Projection Neurons of the RVM</i>	
	Kim Marquart / GS	
	<i>Directed molecular evolution of a CRISPR/Cas9 based genome editor in mammalian cells.</i>	
November 16, 2021	Yu-Hang Liu / DR	Xuehan Zhou / TP
	<i>Non-invasive Longitudinal Imaging of VEGF-Induced Microvascular Alterations in Skin Wounds</i>	
	Melissa Pont / SB	
	<i>Circadian Oscillations in Synaptic Transcript Abundance in Rat Primary Cortical Neurons</i>	
November 23, 2021	Yanik Weber /GS	Audrey Schult / SB
	<i>Directing the Evolution of Nucleotide Editors</i>	



	Matteo Ranucci / HUZ	
	<i>Functional Characterization of Descending GABAergic and Glutamatergic Neurons from the RVM to the Spinal Cord</i>	
November 30, 2021	Luca Ravotto / BW	Desireé Böck / GS
	<i>Optical Measurement of Metabolite Concentrations in the Mouse Brain. Will It Take a Lifetime?</i>	
	Daniil Nozdriukhin /DR	
	<i>Contrast Agents for Localisation Optoacoustic Tomography</i>	
December 7, 2021	Miho Sato / SB	Zhenyue Chen / DR
	<i>The Circadian Clock During Development: an In-vivo Imaging Study</i>	
	Lukas Schmidheini / GS	
	<i>Small Cas-effectors with Broad Target Recognition Capabilities</i>	
December 14, 2021	Jeanne Droux / BW	Sara Meier / SB
	<i>Understanding the Mechanisms Behind Capillary Stalls Caused by Neutrophils in Ischemic Stroke</i>	
	Beau Le Roy / MA	
	<i>Modulation of Mu Opioid Receptor Action with Impedance-Based Whole-Cell Readout</i>	

December 21, 2021	Alex Rosi-Andersen / SB	Maria Chernysheva / TP
	<i>Time-memory Consolidation Within Activity Tagged Neuronal Ensembles</i>	
	Urvashi Dalvi / AS	
	<i>Oxidative Stress in Oligodendrocyte-Axon Crosstalk</i>	