



Progress Report Seminar - Fall Semester 2023

Date	Speaker/Group Title	Chair
September 19	General Assembly	
September 26	Paul Lamothe / TP	Eleonora Ioannidi / GS
	<i>Ex vivo characterization of a high-affinity norepinephrine fluorescent indicator</i>	
	Andreas Stäubli / MA	
	<i>Folate receptor α positive lipid nanoparticles as a vector for brain-targeted gene therapy</i>	
October 3	Marc Ribary / HPL	Rachele D'Angelo / HPL
	<i>The effects of sleep restriction and sleep deprivation on evening cortisol, melatonin, sleepiness and cognitive performance</i>	
	Sevasti Gaspari / HUZ	
	<i>It all began with Tmem117</i>	
October 10	Priscilla Wang / GS	Matteo Ranucci / HUZ
	<i>Directed evolution of novel CRISPR-Cas nucleases</i>	
	Rachel Meister / BW	
	<i>Metabolic effects of the ketogenic diet on brain cell</i>	

October 17	Saphira Mueller / GS	Jeanne Droux / BW
	<i>Engineering of ultra compact pre-CRISPR transposon-associated genome editors</i>	
	Daniil Nozdriukhin / DR	
	<i>Simultaneous dual-modal optoacoustic / laser ultrasound imaging enabled by semi-transparent light/ultrasound emitter</i>	
October 24	Marilena Karakatsani / DR	Nicola Schmid / BW
	<i>Therapeutic ultrasound applications in neurodegenerative disorders</i>	
	Marta Mazurkiewicz / HUZ	
	<i>The role of oligodendrocytes in painful diabetic neuropathy</i>	
October 31	Fiona Seitz / AS	Zacharoula Kagiampaki / TP
	<i>Unraveling oligodendrocyte resilience to oxidative stress: exploring the impact of mitochondrial catalase overexpression</i>	
	Andr�s Tal�s / GS	
	<i>Tackling a monogenic liver disease with second-generation genome engineering tools</i>	
November 7	Urata Kosumi / MA	Alexandra von Faber-Castell / BW
	<i>Evaluation of dark donors in FRET</i>	
November 14	Henri Zanker / AS	Priscilla Wang / GS
	<i>Towards shining light on axonal energy metabolite dynamics in vivo</i>	



	Shruti Sundar / DR	
	<i>Quantum imaging with entangled photon sources</i>	
November 21	Francesca Pietrafesa / HUZ	Csagla Özsoy / DR
	Zainab Faik / AS	
	<i>Towards metabolic imaging of oligodendrocytes in the central nervous system</i>	
November 28	Elina Villiger / GS	Paul Lamothe Molina / TP
	<i>Optimizing base and prime editing for in vivo application</i>	
	Noor Khalid / MA	
December 5	Pascal Imseng / BW	Marta Mazurkiewicz / HUZ
	<i>Examination of glioblastoma multiforme during growth & treatment</i>	
	Paul Wrede / DR	
	<i>Focused-ultrasound enabled particle manipulation towards medical applications</i>	
December 12	Simon D'Aquin / HUZ	Weiye Li / DR
	<i>Top-down somatosensory control by spinally projecting cortical neurons</i>	
	Xuehan Zhou / TP	
	<i>Investigating nociceptin and dopamine dynamics in the mesolimbic pathway</i>	

December 19	Irmak Gezginer / DR	Felipe Moros Velasquez / BW
	<i>Concurrent functional magnetic resonance and optoacoustic imaging of whole-brain resting state connectivity</i>	
	Desireé Böck / GS	
	<i>In-vivo genome editing of the central nervous system</i>	