TransMed/FTN Teaching Program 2023

Name der Veranstaltung		Quantfying the synaptic proteome				
verantwortlicher Dozent/in	Akad. Titel Vorname Name	Prof. Dilja Krueger-Burg				
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weitere Dozent/innen (Akad. Titel Vorname Name)						
Verantwortliche Einrichtung		Institute of Anatomy				
Veranstaltungsform (Praktikum, Workshop, etc)		Workshop				
Veranstaltungsadresse		Institute of Anatomy, Biomedizinisches Forschungszentrum (BFZ), Duesbergweg 6, Room				
Unterrichtssprache		English				
Beginn und Ende der Veranstaltung	Datum	von	14.06.2023	bis	14.06.2023	
Termine	Montag	von		bis		
	Dienstag	von		bis		
	Mittwoch	von	9 Uhr	bis	15 Uhr	
	Donnerstag	von		bis		
		von		bis		
maximale Teilnehmerzahl		8				
minimale Teilnehmerzahl		4				
Maximale **Fehltermine**		0				
Besondere Kriterien zur Erlangung der Credit Points						
Inhalt, bzw. Ziel der Veranstaltung Sonstige Bemerkungen		The flow of information in the central nervous system is critically shaped by the molecular architecture of synapses, which contain a vast protein machinery that determines the properties of synaptic transmission. Alterations in the synaptic proteome have been linked to a wide range of neurological and psychiatric disorders, and quantifying such changes is therefore essential for understanding the molecular mechanisms underlying these disorders. However, this process is rendered challenging by to a number of factors, including the generally subtle nature of the molecular alterations, the diversity of synapse subtypes, and technical limitations in accurately identifying the synaptic protein machinery. In this one-day workshop, we will discuss biochemical, imaging, and proteomic methodologies for the study of synaptic proteins, as well as exploring analysis strategies that facilitate the quantification of subtle or synapse-specific molecular changes. In addition, we will demonstrate immunohistochemical and image analysis approaches toward quantifying the synaptic proteome, with a focus on inhibitory synapses. Overall, this workshop will assist students in designing their own experiments to quantify the synaptic proteome, as well as enabling them to better evaluate the relevant literature.					
ausgefüllt von		Dilja Krueger-Burg				
ausgefüllt am		04.01.2023				