

V-Modul Complex Systems in Biomedical Applications

Winter Term 2026/27

Time Table Part 1: Charité Campus Mitte

12.10.2026	14:30 – 16:00	Lecture	CCO Charité Mitte	From Physiology to Model	Brauns
12.10.2026	16:15 - 17:45	Exercise	CCO Charité Mitte	From Physiology to Model	Brauns
19.10.2026	14:30 – 16:00	Lecture	CCO Charité Mitte	Homeostasis, Feedback and Physiological Control	Brauns
19.10.2026	16:15 - 17:45	Exercise	CCO Charité Mitte	Homeostasis, Feedback and Physiological Control	Brauns
26.10.2026	14:30 – 16:00	Lecture	CCO Charité Mitte	Rhythms, Variability and Hidden Dynamics	Brauns
26.10.2026	16:15 - 17:45	Exercise	CCO Charité Mitte	Rhythms, Variability and Hidden Dynamics	Brauns
2.11.2026	14:30 – 16:00	Lecture	CCO Charité Mitte	From Population Models to Individual Physiology	Brauns
2.11.2026	16:15 - 17:45	Exercise	CCO Charité Mitte	From Population Models to Individual Physiology	Brauns
9.11.2026	14:30 – 16:00	Lecture	CCO Charité Mitte	Modelling Coupled Physiological Systems	Brauns
9.11.2026	16:15 - 17:45	Exercise	CCO Charité Mitte	Modelling Coupled Physiological Systems	Brauns
16.11.2026	14:30 – 16:00	Lecture	CCO Charité Mitte	Data-Driven and Hybrid Physiological Modelling	Brauns
16.11.2026	16:15 - 17:45	Exercise	CCO Charité Mitte	Data-Driven and Hybrid Physiological Modelling	Brauns
23.11.2026	14:30 – 16:00	Exercise	CCO Charité Mitte	Integrative Applications in Physiological Systems Modelling	Brauns
23.11.2026	16:15 - 17:45	Exercise	CCO Charité Mitte	Integrative Applications in Physiological Systems Modelling	Brauns

Part 2: Charité Campus Benjamin Franklin (Steglitz)

30.11.2026	14:30 – 16:00	Lecture + Exercise	CBF	Diffusion (Pattern formation	Günzel
30.11.2026	16:15 - 17:45		CBF	in embryology)	
07.12.2027	14:30 – 16:00	Lecture + Exercise	CBF	Buffering/Sequestration: intra-/	Günzel
07.12.2027	16:15 - 17:45		CBF	extracell. pH, Ca in muscle	
14.12.2027	14:30 – 16:00	Lecture + Exercise	CBF	Channels/Aquaporins	Günzel
14.12.2027	16:15 - 17:45		CBF	from nerve to kidney	
04.01.2027	14:30 – 16:00	Lecture + Exercise	CBF	Carriers/Transport coupling	Günzel
04.01.2027	16:15 - 17:45		CBF	energetics and equilibria	
11.01.2027	14:30 – 16:00	Lecture + Exercise	CBF	Pumps:	Günzel
11.01.2027	16:15 - 17:45		CBF	ATPases and beyond	
18.01.2027	14:30 – 16:00	Lecture + Exercise	CBF	Tight Junctions	Günzel
18.01.2027	16:15 - 17:45		CBF	The paracellular pathway	
25.01.2027	14:30 – 16:00	Lecture + Exercise	CBF	Epithelial Transport	Günzel, Piontek
25.01.2027	16:15 - 17:45		CBF	trans or para?	
01.02.2027	14:30 – 16:00	Lecture + Exercise	CBF	Epithelial Transport	Günzel
01.02.2027	16:15 - 17:45		CBF	trans or para?	
08.02.2027	14:30 – 16:00	Exercise	CBF	Final results	Günzel
08.02.2027	16:15 - 17:45	Exercise	CBF	Q & A	
Mid/end February	(Planned)	exam			Günzel, Brauns

Room information will be updated soon!