

S2004/S2005 Methods for characterization of biomolecular interactions – classical vs. modern

Autumn 2022

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Students enrolled in S2004 course and Workshop participants attend only lectures (L). Students enrolled in both S2004 and S2005 courses need to attend both lectures (L) and practical exercises (P). In the practical part, students are divided into two groups – P1 and P2 (see separate list).

January 9, 2022 (Monday)

<i>time</i>		<i>program</i>	<i>room</i>
10:00-10:05	L	Introduction	C04/211
10:05-11:30	L	Biomolecular interactions (Wimmerová)	C04/211
11:30-12:30		lunch	
12:30-14:00	L	Isothermal titration calorimetry (ITC) (Kubíčková)	C04/211
14:00-14:15		break	
14:15-15:15	L	Spectroscopic methods (Houser)	C04/211
15:15-15:30		break	
15:30-16:30	L	Microscale thermophoresis (MST) (Paulenová)	C04/211

January 10, 2022 (Tuesday)

<i>time</i>		<i>program</i>	<i>room</i>
09:00-10:30	L	Analytical ultracentrifugation (AUC) (Komárek)	C04/211
10:30-10:45		break	
10:45-12:15	L	Surface-based methods (Houser)	C04/211
12:15-13:15		lunch	
13:15-13:45	L	Interactions at the cell level (Houser)	C04/211
13:45-14:45	L	Importance of sample preparation (Houser)	C04/211
14:45-15:00		break	
15:00-17:00	P1	ITC – hands-on (Kubíčková)	C04/218
	P2	AUC – hands-on (Komárek)	C04/217

January 11, 2022 (Wednesday)

<i>time</i>		<i>program</i>	<i>room</i>
09:00-10:30	P1	ITC – data analysis (Kubičková)	C04/218
	P2	AUC – data analysis (Komárek)	C04/211
10:30-10:45		break	
10:45-12:00	P1	BLI – hands-on (Houser)	C04/218
	P2	MST – hands-on (Paulenová)	C04/221
12:00-13:00		lunch	
13:00-13:45	P1	BLI – data analysis (Houser)	C04/218
	P2	MST – data analysis (Paulenová)	C04/221
13:45-14:00		break	
14:00-16:00	P1	AUC – hands-on (Komárek)	C04/217
	P2	ITC – hands-on (Kubičková)	C04/218

January 12, 2022 (Thursday)

<i>time</i>		<i>program</i>	<i>room</i>
09:00-10:30	P1	AUC – data analysis (Komárek)	C04/1S57
	P2	ITC – data analysis (Kubičková)	C04/218
10:30-10:45		break	
10:45-12:00	P1	MST – hands-on (Paulenová)	C04/221
	P2	BLI – hands-on (Houser)	C04/218
12:00-13:00		lunch	
13:00-13:45	P1	MST – data analysis (Paulenová)	C04/221
	P2	BLI – data analysis (Houser)	C04/218
13:45-14:00		break	
14:00-15:00	P	Discussion of practical aspects (all teachers)	C04/218

January 13, 2022 (Friday)

<i>time</i>		<i>program</i>	<i>room</i>
09:30-11:00	L	Written test	C04/211 C04/218