

**Fluorescence based methods (MB\_E)**

**Coordinator: Prof. Dr. Vereb György**

Week	Day	Date	Number of lessons	Location	Topic	Lecturer
2	18 of sept.	Thursday, 12-14	2	Discussion room	Basics of fluorescence. Methods of fluorescent labeling.	GV
3	25 of sept.	Thursday, 12-14	2	Discussion room	Basics of geometrical and physical optics	GV
4	2 of oct	Thursday, 12-14	2	Discussion room	Microscopy: foundations, conventional light microscopy, methods of contrast enhancement	GV
5	9 of okt.	Thursday, 12-14	2	Discussion room	Fluorescence microscopy. Confocal microscopy	VGy
	9 of okt.	Thursday, 14-18	4	Discussion room	Principles and basic methodology of flow cytometry Parameters measured in flow (and image) cytometry: types, storage, processing and presentation	VGy
6	16 of okt.	Thursday, 12-14	2	Discussion room	Laser scanning cytometry.	BZS
7	23 of okt.	Thursday, 12-14	2	Discussion room	<b>Electron microscopy, basic principles of super-resolution microscopic approaches</b>	NP
8	30 of okt.	Thursday, 14-18	4	Discussion room	Biological applications of flow cytometry	SzöÁ
11	20 of nov.	Thursday, 14-18	4	Discussion room	Advanced methods of fluorescence based cell analysis	VGy
12	27 of nov.	<b>Thursday, 12-16</b>	4		Consultation. Grade offering test	VGy