

Cell biology - Lecture curriculum 2nd semester of academic year 2023/24							
WEEK	DATE	NR.	TOPIC	LECTURER	SEMINAR		
					TOPIC	TEACHER I.	TEACHER II.
1	13, Febr (Tuesday - MED)	1	Introduction. Origin of life. Basic functions and constituents of cells.	VGY	Intro	NE	FZS
	15, Febr (Thursday - DENT)						
	14, Febr (Wednesday - MED)	2	Cell membrane, intracellular compartmentalization	KT	1-2	VGY	KT
	16, Febr (Friday - DENT)						
2	20, Febr (Tuesday - MED)	3	Passive transport processes	HP	3-4	HP	VaGY
	22, Febr (Thursday - DENT)						
	21, Febr (Wednesday - MED)	4	Active transport processes	GK	5-6	PGY	VZ
	23, Febr (Friday - DENT)						
3	27, Febr (Tuesday - MED)	5	Ca homeostasis	VZ	7-8	ML	NP
	29, Febr (Thursday - DENT)						
	28, Febr (Wednesday - MED)	6	Osmo-, volume and pH regulation	PGY	9-10	GK	NP
	1, March (Thursday - DENT)						
4	5, March (Tuesday - MED, Dent)	7	Cytoskeleton I. (microtubules)	ML	11-12	VaGY	GK
	6, March (Wednesday - MED, Dent)						
5	12, March (Tuesday - Med, Dent)	9	Cell-cell and cell-matrix contacts	GK	13-14	SZJ	ML
	13, March (Wednesday, Med, Dent)						
	19, March (Tuesday - MED, Dent)	11	Nucleus, chromatin	VaGY	15-16	BZS	SZG
	20, March (Wednesday - MED, Dent)						
6	20, March (Wednesday - MED, Dent)	12	Transport of proteins synthesized on free ribosomes. Nuclear envelope, transport through nuclear pores	GK	17-18	VGY	DBA
week 7, 1st SCT (Lectures 1-10.) 25 March, Monday							
7	26, March (Tuesday - MED, Dent)	13	Vesicular transport I.	NP	19-20	SzöÁ	VGY
	27, March (Wednesday - MED, Dent)						
8	2, April (Tuesday - MED, Dent)	15	Cell division (mitosis, meiosis). Mechanics of cell division.	BZS	21-22	DBA	VGY
	3, April (Wednesday - MED, Dent)						
	9, April (Tuesday - MED, Dent)	17	Cell signaling I. General concepts. Nuclear receptors. G-protein coupled receptors	VGY	23-24	BZS	PGY
	10, April (Wednesday - MED, Dent)						
9	16, April (Tuesday - MED, Dent)	19	Cell signaling II. Receptor tyrosine kinases. The Ras/MAPK, PI3K/Akt and PLC/CaMK pathways	VGY	25-26	SzöÁ	ZF
	17, April (Wednesday - MED, Dent)						
10	23, April (Tuesday - MED, Dent)	21	Cell signaling III. Proteolytic Signals. Pathways to the nucleus	SzöÁ	27-28	ML	ML
	24, April (Wednesday - MED, Dent)						
11	23, April (Tuesday - MED, Dent)	21	Cell fates: Differentiation	DBA	29-30	SzöÁ	VGY
	24, April (Wednesday - MED, Dent)						
	24, April (Wednesday - MED, Dent)	22	Cell fates: Oncogenes, tumor cells	VGY	31-32	VGY	VGY
week 12, 2nd SCT (Lectures 11-20) 29 April, Monday							
12	30, April (Tuesday - MED, Dent)	23	Cell fates: Cell senescence, apoptosis	BZS	33-34	DBA	VGY
	1, May (Wednesday - MED, Dent)						
13	7, May (Tuesday - MED, Dent)	25	From genes to cell function: overview of the main regulatory mechanisms	ZF	35-36	BZS	PGY
	8, May (Wednesday - MED, Dent)						
14	14, May (Tuesday - MED, Dent)	27	Cell and gene therapies	SzöÁ	37-38	SzöÁ	ZF
	15, May (Wednesday - MED, Dent)						
	14, May (Tuesday - MED, Dent)	27	Cell motility	ML	39-40	SzöÁ	ZF
	15, May (Wednesday - MED, Dent)						
14	14, May (Tuesday - MED, Dent)	27	Cell motility	ML	39-40	SzöÁ	ZF
	15, May (Wednesday - MED, Dent)						
	15, May (Wednesday - MED, Dent)	28	Consultation	ZF	41-42	SzöÁ	ZF