

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