Cell biology - Lecture curriculum 2nd semester of academic year 204/25							
	DATE		TOPIC	LECTURER -	SEMINAR		
WEEK		NR.			TOPIC	TEACHER I.	TECAHER II.
1	11, Febr (Tuesday - MED) 13, Febr (Thursday - DENT)	1	Introduction. Origin of life.Basic functions and constituents of cells.	VGY	Intro	NE	FZS
	12, Febr (Wednesday - MED) 14, Febr (Friday - DENT)	2	Cell membrane, intracellular compartmentalization	кт			
2	18, Febr (Tuesday - MED) 20, Febr (Thursday - DENT)	3	Passive transport processes	НР	1-2	VGY	кт
	19, Febr (Wednesday - MED) 21, Febr (Friday - DENT)	4	Active transport processes	GК			
3	25, Febr (Tuesday - MED) 27, Febr(Thursday - DENT)	5	Ca homeostasis	VZ	3-4	НР	VaGY
	26, Febr (TWednesday - MED) 28, Febr(Friday - DENT)	6	Osmo-, volume and pH regulation	PGY			
4	4, March (Tuesday - MED, Dent)	7	Cytoskeleton I. (microtubules)	ML	5-6	PGY	VZ
	5, March (Wednesday -MED, Dent)	8	Cytoskeleton II. (intermedier and microfilaments)	ML			
5	11, March (Tuesday - Med, Dent)		Cell-cell and cell-matrix contacts	KT	7-8	ML	кдк
	12, March (Wednesday, Med, Dent)		Cellular energetics, mitochondrion, endosymibiosis	SzJ VaGY			
6	18, March (Tuesday - MED, Dent) 19, March (Wednesday - MED, Dent)	12	Nucleus, chromatin Transport of proteins synthesized on free ribosomes. Nuclear envelope, transport through nuclear pores	GK	9-10	SzJ	NP
		v	reek7, 1st SCT 24 March, Monday (1-10 lecture)				
7	25, March (Tuesday - MED, DENT)	13	Vesicular transport I.	NP	11-12	VaGY	GK
/	26, March (Wednesday - MED, DENT)	14	Vesicular transport II.	NP			GK
8	1, April (Tuesday - MED, DENT)	15	Cell division (mitosis, meiosis). Mechanics of cell division.	BZS SZG	13-14	NP	ML
	2, April (Wednesday - MED, DENT)	16	Cell cycle and its regulation		15 1.		
9	8, April (Tuesday - MED, DENT)	17	Cell signaling I. General concepts. Nuclear receptors. G-protein coupled receptors	VGY	15-16	BZS	SZG
	9, April (Wednesday - MED, DENT)	18	Cell signaling II. Receptor tyrosine kinases. The Ras/MAPK, PI3K/Akt and PLC/CaMK pathways	VGY			
10	15, April (Tuesday - MED, DENT)	19	Cell signaling III. Proteolytic Signals. Pathways to the nucleus	VGY	17-18	VGY	DBA
	16, April (Wednesday - MED, DENT)	20	Cell-cell communication in the nervous and the immune system	SzöÁ			
11	22, April (Tuesday - MED, DENT)		Cell fates: Differentiation	DBA	19-20	SzöÁ	VGY
	23, April (Wednesday - MED, DENT)		Cell fates: Oncogenes, tumor cells	SzöÁ			
12	29, April (Tuesday - MED, DENT) 30, Apri(Wednesday - MED, DENT)		Cell fates: Cell senescence, apoptosis Cell fates: Stem cells	BZS PGY	21-22	DBA	PGY
13	6, May (Tuesday - MED, DENT)	25	Cell rates: Stem cells From genes to cell function: overview of the main regulatory mechanisms	ZF	23-24	BZS	VGY
	7, May(Wednesday - MED, DENT)	26	Cell and gene therapies	SzöÁ			
			eek 14, 2nd SCT 12 May, Monday (11-24 lecture)				
14	13, May (Tuesday - MED, DENT)		Cell motility	ML	25-26	SzöÁ	ZF
	14, May(Wednesday - MED, DENT)	28	Consultation	ZF			