

**2011/12 YEAR 2nd SEMESTER
GENERAL MEDICINE**

DATE	LECTURE	SEMINAR	PRACTICAL
1. week Febr. 6-10	Biochemistry of blood		General information, work safety, principles of lab work
2. week Febr. 13-17	Biochemistry of blood		<u>Biochemistry of blood I.</u> Determination of bilirubin
3. week Febr. 20-24	Biochemistry of biomembranes	SEMINAR (blood, biomembranes) Platelets and adhesion of leukocytes	
4. week Febr. 27- March 2	Biochemistry of muscle		<u>Biochemistry of blood</u> <ul style="list-style-type: none"> • electrophoresis of serum proteins • ion det. by colorimetry, „Deep Picture“ blood gas analysis • determination of haptoglobin
5. week March 5-9	Biochemistry of the connective tissue		
6. week March 12-16	Biochemistry of cell adhesion, cytoskeleton		<u>Biochemistry of muscle</u> Diagnosis of heart attack and determination of cardiovascular risk factors (cholesterol, triacylglycerols, lipoproteines)
7. week March 19-23	Biochemistry of liver Biotransformation.		<u>Biochemistry of liver</u> Determination of ALAT and ASAT
8. week March 26-30	Biochemistry of the nervous tissue, Neurotransmitters		<u>Biochemistry of the nervous tissue</u> Cholinerg neurotransmission Determination of cholinesterase enzyme activity
9. week Apr. 2-6	Biochemistry of the endocrine system	SEMINAR (connective tissue, cell adhesion and cytoskeleton, nutrition)	
10. week Apr. 9-13	VACATION		
11. week Apr. 16-20	Biochemistry of the endocrine system	SEMINAR (liver, muscle, nervous tissue)	
12. week Apr. 23-27	Biochemistry of the endocrine system	MTO	<u>Mol. biology and hormonal regulation</u> <ul style="list-style-type: none"> • determination of blood glucose and HbA1c • determination of mRNA isoform levels by RT-PCR
13. week Apr. 30-May 4	Regulation of gene expression		
14. week May 7-11	Biological signalization, second messenger systems.	SEMINAR (endocrine system, cell signalling)	
15. week May 14-18	General principles of biochemical adaptation, limits of adaptation	CONSULTATION	

