

**2015/16 YEAR 2<sup>nd</sup> SEMESTER  
GENERAL MEDICINE**

DATE	LECTURE	SEMINAR	PRACTICAL
1. week Febr. 1-5	Biochemistry of blood		General information, work safety, principles of lab work
2. week Febr. 8-12	Biochemistry of blood		<u>Biochemistry of blood I.</u> Determination of bilirubin
3. week Febr. 15-19	Biochemistry of biomembranes	SEMINAR (blood, biomembranes) Platelets and adhesion of leukocytes	
4. week Febr. 22-26	Biochemistry of muscle		<u>Biochemistry of blood</u> • electrophoresis of serum proteins • ion det. by colorimetry, „Deep Picture“ blood gas analysis • determination of haptoglobin
5. week Feb 29- March 4	Biochemistry of the connective tissue		
6. week March 7-11	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 14-18	Biochemistry of liver Biotransformation.	<u>SEMINAR (connective tissue, cell adhesion and cytoskeleton, nutrition)</u>	
8. week March 21-25	Biochemistry of the nervous tissue, Neurotransmitters		<u>Biochemistry of liver</u> Determination of ALAT and ASAT
9. week March 28 - Apr. 1	<b>Spring holiday</b>		
10. week Apr. 4-8	Biochemistry of the endocrine system	SEMINAR (liver, muscle, nervous tissue)	
11. week Apr. 11-15	Biochemistry of the endocrine system	<b>Biochemical competition</b>	<u>Biochemistry of the nervous tissue</u> Cholinerg neurotransmission Determination of cholinesterase enzyme activity
12. week Apr. 18-22	Regulation of gene expression		<u>Mol. biology and hormonal regulation</u>
13. week Apr. 25-29	Regulation of gene expression		• determination of blood glucose and HbA1c • determination of mRNA isoform levels by RT-PCR
14. week May 2-6	Biological signalization, second messenger systems.	SEMINAR (endocrine system, cell signalling)	
14. week May 9-13	General principles of biochemical adaptation, limits of adaptation	CONSULTATION	