

Dentistry**ZLBC041c**

Week	Date	Experiments
4	13.3.	<p>Directions for laboratory work. Handling biological material.</p> <p><u>Introduction to the laboratory experiments. Investigation of glucose metabolism</u></p> <p>1.1 Importance of laboratory examinations</p> <p>1.1.1 Handling biological material, blood collection</p> <p>1.2 Investigation of glucose metabolism</p> <p>1.2.1 Enzymatic determination of plasma glucose</p> <p>1.2.2 Determination of glycaemia by personal glucometer</p> <p>1.2.3 Oral glucose tolerance test (oGTT)</p> <p>1.2.4 Detection and determination of glucose in urine</p> <p>1.2.5 Detection of ketone bodies in urine</p>
9	17.4.	<p><u>Investigation of hard tissues</u></p> <p>2.1 Determination of calcium in serum</p> <p>2.2 Determination of inorganic phosphate in serum</p> <p>2.3 Determination of total ALP catalytic concentration and bone ALP isoform catalytic concentration</p> <p>2.4 Electrophoresis of ALP isoforms</p> <p>2.5 Properties of hydroxyapatite</p>
13	15.5.	<p><u>Investigation of saliva</u></p> <p>3.1 Investigation of salivary secretion rate</p> <p>3.2 Estimation of salivary buffering capacity</p> <p>3.3. Detection of selected organic compounds in saliva</p> <p>3.4. Detection of α-amylase in saliva and its substrate specificity</p> <p>3.5. Determination of selected enzymes catalytic activity in saliva</p>
14 -15	20 5. – 31.5.	Compensatory lessons. Credits.

Recommended literature:

Biochemistry-Practicals: Information system of MU (is.muni.cz) - Study materials

Conditions for giving the course-unit credit

- Full (100%) attendance in labs is the principal condition.
If any absence, it must be apologized through Department of Study Affairs **up to five days**.
If apology is recorded in Information System (IS), then student is allowed to make up the absence according to teacher's instructions.
- Presentation of all lab reports to the teacher

Deadline for any issue (making up all missing and justified lessons, completion of all lab reports and handing them to the teacher) **is 14. 6. 2013.**

Students that will not meet this requirement will not be given the course-unit credit.

Obtaining of course-unit credits of practices is the pre-requisite for registration to the examination of Biochemistry II.