TEACHING

DENTAL MEDICINE

BIOCHEMISTRY and ORAL BIOCHEMISTRY

1st year	2/3 C	Summer term
2nd year	2/3 CE	Winter term

The aim of the subject is to specify biochemical processes in oral cavity, to describe and explain processes on whole body level resulting in oral effects – calcium and phosphorus metabolism, formation and mineralization of dental tissues, the effects of hormones on the oral structures, influence of a diet etc. To explain the composition and biochemistry of saliva, its relation to the digestive and other processes including its role as a diagnostic marker of many pathological events in mouth and whole body. To explaine biochemical changes associated with development of a teeth decay and other physilogical alterations. To stress the metabolic pathways which switchover both dental and wholebody metabolisms.

Literature:

R. Harvey, D. Ferrier	**Biochemistry** 5th edition (Lippincott Williams & Wilkins)	2012
J. G. Salway	Medical Biochemistry at a Glance (Wiley/Blackwell)	2012
M. D. Rosenthal, R. H. Glew:	Medical Biochemistry (Wiley)	2009
Murray R. K.	**Harper´s biochemistry**	1996
Mareková M. et al.	**Seminars from medical biochemistry**	2012
Tomečková V. et al.	**Practical exercises from biochemistry** http://portal.lf.upjs.sk/articles.php?aid=93	2010
Mareková M. et al.	Seminars from biochemistry http://portal.lf.upjs.sk/articles.php?aid=33	2010
Kušnír J. et al	Biochemistry: practical exercises	2001