



COURSE DATASHEET

Semester:	2014/15/1
Course:	Molecular Biology
Code:	VEMKLIB312M
Responsible department:	Department of Limnology
Department code:	MKLI
Responsible instructor:	Kata Karádi-Kovács

Course objectives:

To show the contexts of intraindividual biology at deeper, molecular level.

Course content:

1 Introduction, history of molecular biology 2 DNA 3 Genome organization 4 RNA 5 Gene -> Protein 6 Replication, Telomere maintenance 7 DNA repair, recombination 8 Written examination 9 Transcription - prokaryotes 10 Transcription - eukaryotes 11 Epigenetics 12 RNA processing 13 Translation 14 Genome analysis 15 Written examination

Requirements, evaluation and grading:

The half-hour oral examination is about 20-25 minutes after preparing the student with the exam questions / themes to express. Insufficient (1) the answer is, if the candidate has either a short outline of the topic or the topic is not able to provide definitions of basic concepts. Satisfactory (2) the answer is, if the candidate can interpret basic concepts of the issue. Fair (3) the answer is, if the candidate is aware of the basic concepts of issues and is able to help teachers present the topic in a logical context. Good (4) the answer is, if the candidate's response to a logical structure alone explains the item (exam) all relevant facts and relationships, but the compulsory literature associated with item no or incomplete knowledge. Excellent (5) the answer, if the candidate has all the items, as well as the required knowledge of literature, logically structured, independent, detail is excellent, fully exploring the relationships within bears witness to answer.

Required and recommended readings:

L. Allison: Fundamental molecular biology. Blackwell Publishing, 2006. Szeberényi J.: Molekuláris sejtbiológia. Dialóg Campus Kiadó, 2004. Bálint M: Molekuláris biológia I-II. Műszaki Könyvkiadó, 2000. Bálint M: Molekuláris biológia III. Nemzeti Tankönyvkiadó, 2002. GM Cooper, RE Hausman. The Cell. A Molecular Approach. ASM Press, 2007. Virtual text: Molecular biology. www.ergito.com