

BIOLOGY FOR DENTAL STUDENTS I.
LECTURE

2013/2014, 1st semester, 1st year, Dental students
Fall semester: 2 September – 7 December 2013

Place: Faculty of Dentistry, B Building, White Room
Time: Wednesday 13.00-15.00 (2 hours/week)
Exam: Examination
Credit: 2

Date	Lecture	Lecturer
04. 09. 2013.	1. Cells and cell organelles	Prof. Dr. János Minárovits professor
11. 09. 2013.	2. DNA, gene, genome, chromosome	Prof. Dr. János Minárovits
18. 09. 2013.	3. DNA replication and cell division	Prof. Dr. Zoltán Rakonczay professor
25. 09. 2013.	4. Transcription, RNA molecules, RNA polymerases, RNA maturation	Prof. Dr. Zoltán Rakonczay
02. 10. 2013.	5. Genetic code, translation	Prof. Dr. Zoltán Rakonczay
09. 10. 2013.	6. Proteins: structure, function, processing and degradation	Prof. Dr. Zoltán Rakonczay
16. 10. 2013.	7. Bacterium genetics, somatic cell genetics	Prof. Dr. Zoltán Rakonczay
30. 10. 2013.	8. Polygenic inheritance	Prof. Dr. Zoltán Rakonczay
06. 11. 2013.	9. Membranes and transport processes	Prof. Dr. János Minárovits
13. 11. 2013.	10. Cytoskeleton, cell movement	Prof. Dr. János Minárovits
20. 11. 2013.	11. Basic immunology I.	Dr. Krisztina Buzás senior research fellow
27. 11. 2013.	12. Evolution	Prof. Dr. János Minárovits
04. 12. 2013.	13. Consultation	Prof. Dr. János Minárovits Prof. Dr. Zoltán Rakonczay

Recommended literature:

William K. Purves, Gordon H. Orians, H. Craig Heller, David Savada: Life: Science of Biology (Seventh Edition) W. H. Freeman and Company, New York, 2005.

Conditions for accepting the semester

1. Active participation on lectures and seminars, based on the study and exam regulations of the University and of the Faculty of Dentistry,
2. Requirements of participation on lectures and seminars and replacement of absenteeism based on the study and exam regulations of the Faculty of Dentistry
3. Method of proof of the absence on seminars and lectures based on the study and exam regulations of the University and of the Faculty of Dentistry

BIOLOGY FOR DENTAL STUDENTS I. SEMINAR

2013/2014, 1st semester, 1st year, Dental students

Fall semester: 2 September – 7 December 2013

Place: Faculty of Dentistry, B Building, White Room

Time: Wednesday 15.00-16.00 (1 hour/week)

Exam: Evaluation (5)

Credit: 1

Date	Topics	Teacher
04. 09. 2013.	1. Basic laboratory methods and equipments I.	Prof. Dr. János Minárovits professor
11. 09. 2013.	2. Basic laboratory methods and equipments II.	Prof. Dr. János Minárovits
18. 09. 2013.	3. Specific microscopic methods I.	Prof. Dr. Zoltán Rakoncay professor
25. 09. 2013.	4. Specific microscopic methods II.	Prof. Dr. Zoltán Rakoncay
02. 10. 2013.	5. Separation methods I.	Prof. Dr. Zoltán Rakoncay
09. 10. 2013.	6. Demonstration	Prof. Dr. Zoltán Rakoncay
16. 10. 2013.	7. Chromosomes, chromosomal techniques, karyotyping	Prof. Dr. Zoltán Rakoncay
30. 10. 2013.	8. Prokaryotic gene regulation I.	Prof. Dr. Zoltán Rakoncay
06. 11. 2013.	9. Prokaryotic gene regulation II.	Prof. Dr. Zoltán Rakoncay
13. 11. 2013.	10. Eukaryotic gene regulation, epigenetics I.	Prof. Dr. János Minárovits
20. 11. 2013.	11. Eukaryotic gene regulation, epigenetics II.	Prof. Dr. János Minárovits
27. 11. 2013.	12. Demonstration	Prof. Dr. János Minárovits Prof. Dr. Zoltán Rakoncay
04. 12. 2013.	13. Consultation	Prof. Dr. János Minárovits Prof. Dr. Zoltán Rakoncay

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3. Method of proof of the absence on seminars and lectures based on the study and exam regulations of the University and of the Faculty of Dentistry
4. It is mandatory the fulfillment of the **WRITTEN TESTS (1st and 2nd)**. The average mark of the tests should be at least 2.0. Unsatisfactory test should be corrected; there is only ONE possibility for the correction during the semester! The date of this correction Test is given by the responsible of the subject.