

**2013/2014**

## **English Dentistry Division**

### **Medical Biology**

#### **Department of General Biology and Parasitology**

The course covers:

- 8 hours of lectures (4 weeks of 2 hours)
- 27 hours of seminars and classes (9 weeks of 3 hours)
- Lectures, seminars and classes take place in winter semester in Anatomicum building at Chałubińskiego 5 Str.
- The person responsible for the course is Monika Dybicz, Ph.D. The course starts according to the plan given by the Dean's office.
- Presence at classes and seminars is obligatory.
- In classes and seminars students are required to do the drawings and solve the problems etc. in the exercise book „Biology. Materials for English Dentistry Division”.
- After the course students are obligated to take the test for credit.

- At the department the scientific student circle works in two sections:
    - parasitological where students learn diagnostic methods and evaluation of pathological changes in host tissues
    - molecular where students learn molecular techniques and use it in diagnostics.
- The meetings of the circle have individual character. The students can participate in research conducted in the department.

## Course program

### Lectures

1. Ecoparasitology. Parasitism – general terms and definitions.
2. Immunoparasitology.
3. Organisation and structure of human genome.
4. Cloning. Gene therapy.

### Seminars and classes

- 1.** Influence of the environmental factors on *Trichomonas tenax*.
- 2.** Human parasites that we are infected through the oral cavity. Intestinal, cellular and tissue protozoans.
- 3.** Parasitic human helminths. Variety of sources, invasion routes and localization.
- 4.** External arthropods of medical importance.
- 5.** Mendelian genetics and variations. Mitochondrial and multifactorial inheritance.
- 6.** Mutagenesis. Gene and chromosome mutations.
- 7.** Human sex determination.
- 8.** Classic and molecular cytogenetics.
- 9.** Molecular biology techniques used in mutation detection and human disorders diagnosis.

## **Obligatory and supplementary literature**

### **Obligatory literature**

1. Web Atlas of Medical Parasitology. <http://www.atlas.or.kr/>
2. Thompson & Thompson Genetics in Medicine. R.L. Nussbaum, R.R. McInnes, H.F. Willard. W.B. Saunders Company

### **Supplementary literature**

1. Markell and Voge's Medical Parasitology. D.T. John, W.A. Petri. Saunders Company
2. Medical Genetics. L.B. Jorde, J.C. Carey, M.J. Bamshad, R.L. White. Mosby