



Parasitology

The course of parasitology is **obligatory**. The course is conducted by **Department of General Biology and Parasitology** (Anatomicum building, 5 Chałubiński Str., 02-004 Warsaw, tel. (22) 6212607, e-mail: biologia@wum.edu.pl).

The head of the department is **Daniel Młocicki**, Ph.D., Associate Professor.

The course coordinator is **Monika Dybicz**, Ph.D., Associate Professor, e-mail: monika.dybicz@wum.edu.pl.

The program contains:

1. Introduction to parasitology. Host-parasite relationship. Protozoa of the digestive and urogenital system (*Giardia intestinalis*, *Entamoeba histolytica*/*E. dispar*, *E. coli*, *Endolimax nana*, *Iodamoeba butchlii*, *Balantidium coli*, *Blastocystis hominis*, *E. gingivalis*, *Trichomonas tenax*, *Pentatrichomonas hominis*, *T. vaginalis*).
2. Cellular and tissue protozoans (*Plasmodium* spp., *Trypanosoma* spp., *Leishmania* spp., *Babesia* spp.).
3. Opportunistic and facultative protozoans (*Toxoplasma gondii*, *Cryptosporidium parvum*, *Cyclospora cayetanensis*, *Isospora belli*, *Sarcocystis* spp., *Acanthamoeba* spp., *Naegleria* spp.).
4. Flukes of the digestive and circulatory system (*Fasciola hepatica*, *Opisthorchis felinus*, *Dicrocoelium dendriticum*, *Fasciolopsis buski*, *Schistosoma* spp.).
5. Intestinal tapeworms (*Taenia solium*, *T. saginata*, *Rodentolepis nana*, *Hymenolepis diminuta*, *Dipylidium caninum*, *Diphyllobothrium latum*, *Spirometra erinaceieuropaei*).
6. Nematodes of the gastrointestinal tract (*Ascaris lumbricoides*, *Enterobius vermicularis*, *Trichuris trichiura*, *Ancylostoma duodenale*, *Necator americanus*, *Strongyloides stercoralis*).
7. Helminths invading human tissues and organs (*Echinococcus granulosus*, *E. multilocularis*, *Toxocara canis*, *Anisakis* spp., *Trichinella* spp.).

8. Filariae (*Loa loa*, *Onchocerca volvulus*, *Wuchereria bancrofti*, *Brugia malayi*, *Dirofilaria repens*, *Dracunculus medinensis*). Helminthotherapy of human autoimmune diseases.
9. Parasitic arthropods and pathogen carriers.
10. Laboratory diagnostics of parasitic diseases.
11. Repetition. Discussing clinical cases.
12. Preparation recognition.

Obligatory literature

1. Workbook: Parasitology - materials for 3rd year students of English Division Medicine. Monika Pliszka, Bożenna Oleszczak, Monika Dybicz. Oficyna Wydawnicza WUM, Warszawa, 2020 (free pdf available for students).
2. Essentials of Medical Parasitology. Apurba Sankar Sastry, Sandhya Bhat K. JP Medical Ltd, 2014 (free e-book available).

The course regulations

1. Students are required to prepare for the course, which will be verified by the student's answer or written test.
2. Students watch microscopic and macroscopic preparations of various forms of development of parasites and make drawings documenting the preparations.
3. Due to contact with invasive material during classes, hygiene instructions should be strictly followed.
4. Attendance at all classes is obligatory, attendance should be on time. Absence due to illness should be done with another group after prior agreement with the person responsible for the subject.
5. Students should wear a lab coat and lab gloves during the practical classes.
6. Persons applying for transfer of the subject from previous years or from another university should write an application to the Head of the Department of General Biology and Parasitology and obtain permission of the Dean.

The course organization

Taking into account the current epidemiological situation, most of the classes will be held **online on the Microsoft Teams platform.**

All the seminars and part of the exercises will be held online according to the schedule provided by the Dean's office.

Two last exercises (5 hours) are planned to take place at the department. The dates and time of these classes will be established with each group individually.

These are preliminary assumptions that may change depending on the epidemiological situation.

If some students are not able to come to Poland and attend classes at the department, then can have the opportunity to complete these classes online.