

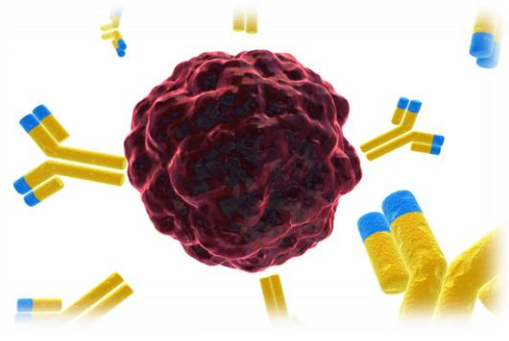
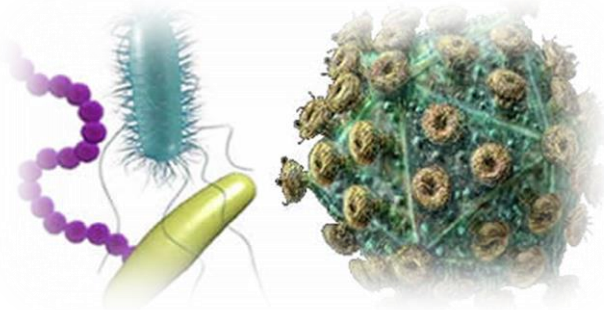
# V. N. Karazin Kharkiv National University



## School of Medicine



## Department of General and Clinical Immunology and Allergology



## GENERAL INFORMATION

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To date, the Department of General and Clinical Immunology and Allergology is one of the leading of its kind in Ukraine, due to the high staff qualifications, and educational and methodological work using innovative approaches and topical scientific research. The Department trains specialists in the specialty of 7.12010001 "Medicine case". Currently, the Department is a scientific and methodological center, which offers a wide information and experimental base, the latest teaching technology and conducts experimental and clinical interdisciplinary research. The Department conducted educational-methodical and scientific seminars, bringing together immunologists, microbiologists, infectious disease specialists, dermatologists, allergists, phthisiologists.

## DEPARTMENT'S HISTORY

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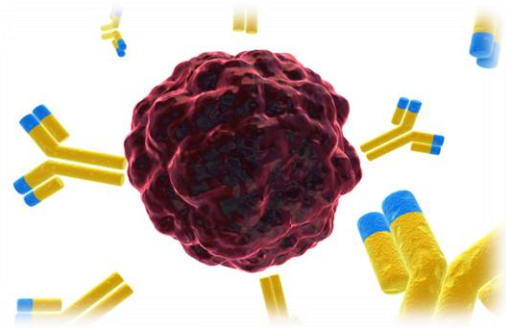
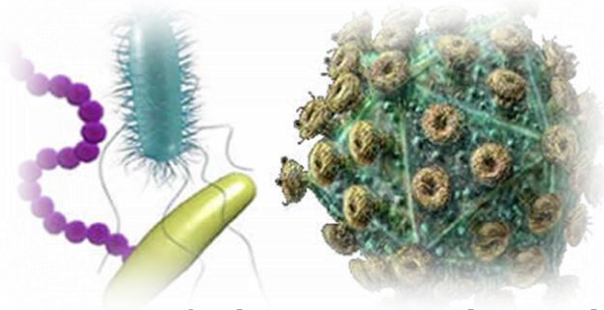
Department of General and Clinical Immunology and Allergology was founded in July 1994, one year after the opening of the School of Basic Medicine, according to the order №185 of the Ministry of Education of Ukraine from 20.11.1992. Doctor of Medicine, full professor Nikolai Popov was elected as the Head of the Department.

The origins of the Department is inextricably linked with the history of the School of Medicine of the Imperial Kharkov University, founded at the initiative of V.N. Karazin in 1805. During the first years of existence of our university, the teachers made a huge contribution to the development of modern microbiology and immunology, both in our country and abroad.

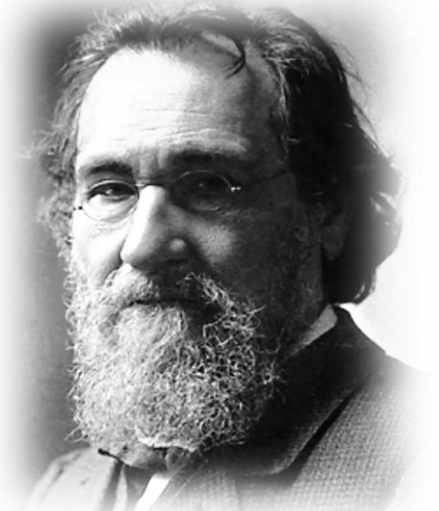
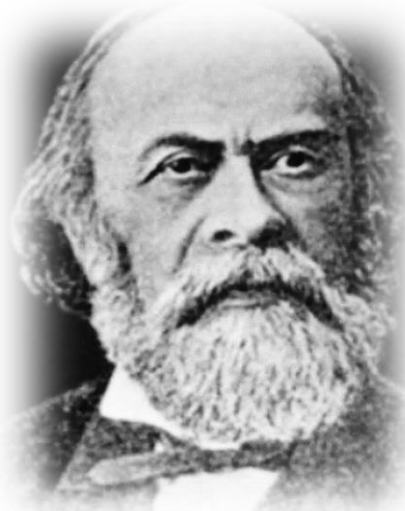
Among the most famous Dusan F. Lambl, which holds the honor of the discovery and description of new species of the parasite found in the small intestine and liver, called Giardia (*lamblia intestinalis*).

Lev Semenovich Tsenkovsky – the founder and one of the "fathers of bacteriology" was also one of the professors of our university who discovered the phenomenon of symbiosis. In addition, he worked on the improvement of methods of vaccination of anthrax.

The invaluable contribution of Microbiology and Immunology was made by the Nobel Prize Laureate Ilya Ilyich Mechnikov, a graduate of the Natural Department of Kharkov University. The original theory of the origin of multicellular animals, the



discovery of phagocytosis, the study of the epidemiology of cholera, typhoid, tuberculosis and other infectious diseases belong to him.



I. I. Mechnikov organized the first national school of microbiologists, immunologists and pathologists.

Until 2009, the structure of the Department had various medical and sanitary disciplines, but after the reorganization, the main courses taught today are microbiology, general and clinical immunology, infectious diseases, epidemiology, dermatology and phthisiology.

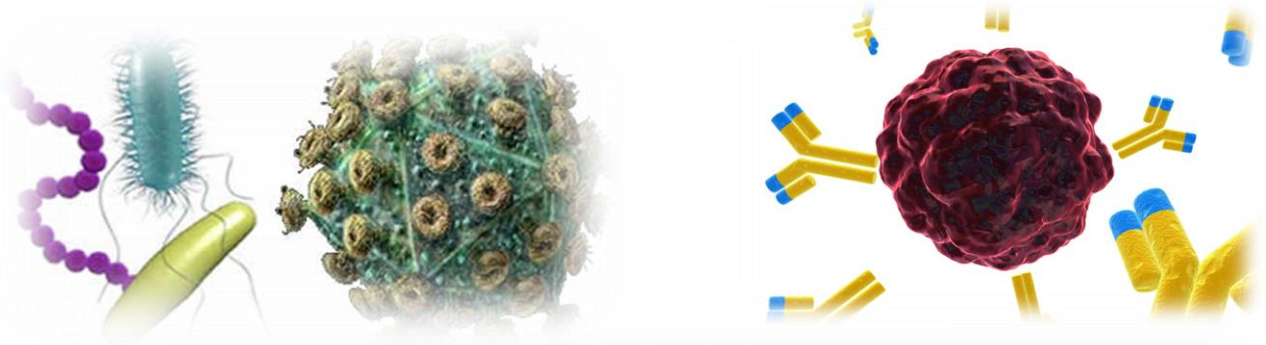
## DEPARTMENT'S LOGISTIC

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Equipment and technical support of the Department is at the highest level and fully complies with international standards.

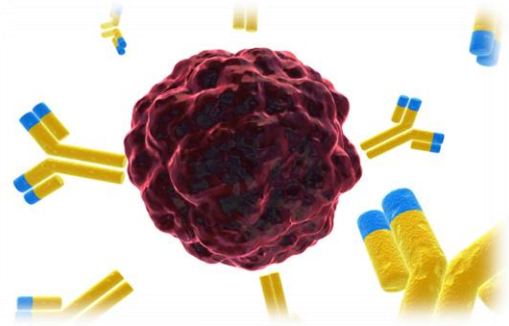
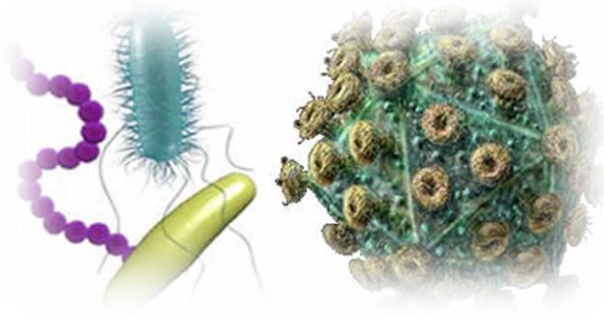
Lectures are held in lecture halls equipped with multimedia systems and computers connected to the internal network of the University and to the Internet.

For practical and seminar classes there are classrooms equipped with multimedia systems, personal computers with access to the University network and the Internet, video and television equipment, microscopes, laboratory equipment and demonstration materials and other classrooms are located in the Mechnikov Institute of Microbiology and Immunology of National Academy of Medicine of Ukraine and the Department of medical databases.



At the training sessions on the disciplines of the Department laboratory equipment, a colorimeter, centrifuge, personal computers, Microscope "Primo Star", microscopes "MICRRMed", television, video and multimedia equipment, visual aids, and thematic tables are applied.





## HEAD OF THE DEPARTMENT

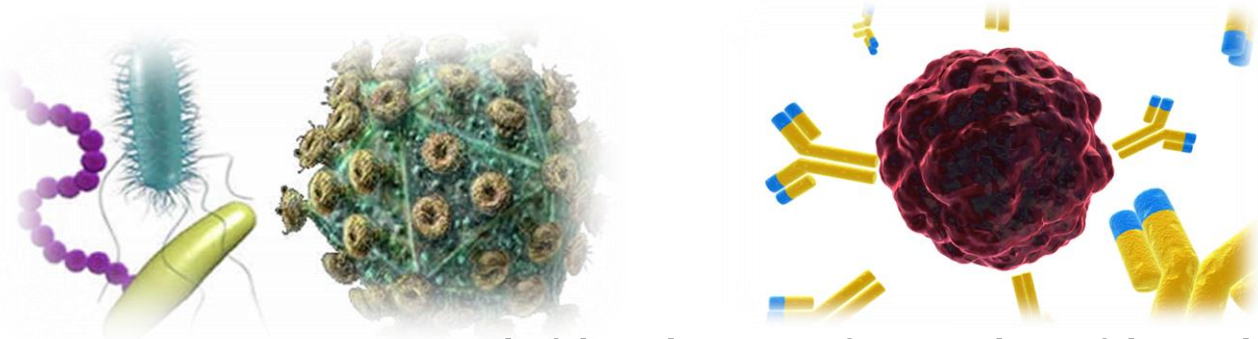
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The Head of the Department of General and Clinical Immunology and Allergology, Doctor of Medicine, full professor Nikolai Popov is known in Ukraine and abroad as an expert in the field of general and clinical immunology.



He graduated with honors in 1974 from Kharkiv Medical Institute specializing in "Medicine case". From 1974 to 1991 – post-graduate Institute of Problems of Cryobiology and Cryomedicine, junior researcher, doctoral student, senior researcher.

In 1980, he defended his thesis for the degree of Candidate of Medicine. In 1990, he defended his thesis for the degree of Doctor of Medicine on the theme: "Cryopreservation and transplantation of bone marrow and lymphoid cells with radiation pathology" in the specialty 14.00.36 "Allergology and Immunology". In 2002, he was awarded the rank of associate professor, senior researcher.



From 1991 to 1993 – Head of the Laboratory of Immunology of the Mechnikov Institute of Microbiology and Immunology of National Academy of Medicine of Ukraine.

From 1994 until now is the Head of the Department of General and Clinical Immunology and Allergology. In 2003, he was awarded the title of full professor. Throughout his working at the university, he has been a member of the Scientific Council of the School of Medicine.

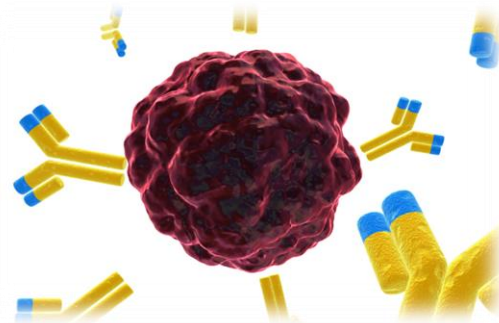
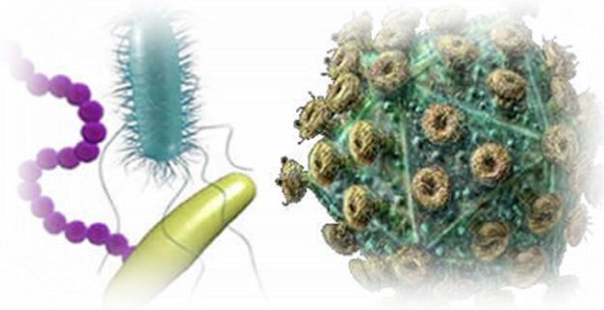
For the high level of professionalism, significant contribution to the development of education and science, and training of qualified specialists he was awarded the Honorary Diploma of the Ministry of Education of Ukraine, a scholarship named after I. I. Mechnikov Kharkiv provided by the regional state administration, the mayor has thanked him for conscientious and fruitful work and he was awarded with a diploma of the President of the V. N. Karazin Kharkiv National University and a medal of V. N. Karazin.

N. Popov has an active teaching career, passing his invaluable experience and knowledge to the students of the School of Medicine. He lectures on general and clinical immunology, conducts workshops and seminars on general and clinical immunology, as well as clinical reviews of patients with severe immunodeficiency in conjunction with the department staff and students.

N. Popov is the author of three books with the stamp of the Ministry of Health and Ministry of Education of Ukraine, 6 textbooks and monographs, 10 textbooks, 30 teaching aids and methodological recommendations, more than 50 articles in magazines that are included in the foreign scientometric base and have the impact factor, more than 100 articles in domestic specialized publications. N. N. Popov, organized and carried out more than 20 scientific and practical conferences, including 16 – International. N. Popov is the author of 15 patents and copyright certificates.

N. Popov has successfully supervised 10 candidate and 2 doctoral dissertations and currently planned and carried out 2 candidate and 1 doctoral thesis.

Scientific specialization of N. Popov is immunology. Recently, research activities have been aimed at the protection and rehabilitation of the immune system of children who are often ill, the development of modern vaccines, the study of post-vaccination immunity and improving its methods of forecasting the development of immune diseases.



## DEPARTMENT'S STAFF

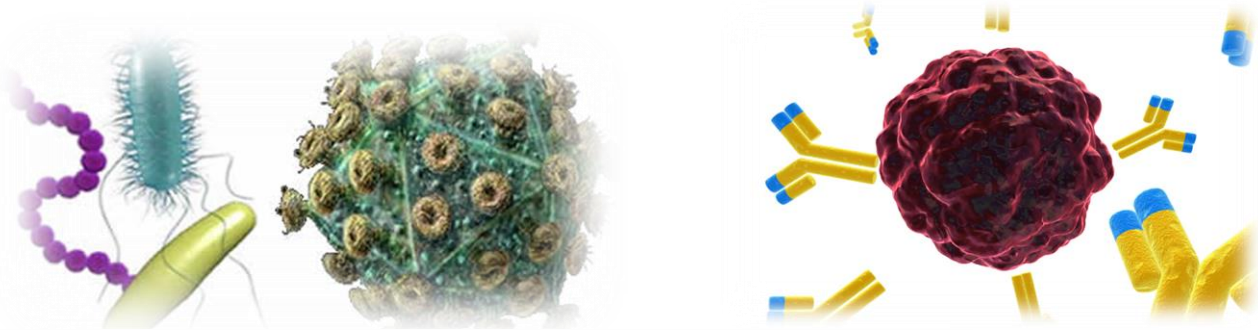
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Staff of the Department of General and Clinical Immunology and Allergology include doctor of medicine, professor; 17 candidates of medicine, associate professors; 11 assistants without scientific degree, two postgraduates and four laboratory assistants of department. Number of full-time employees is 65% and the external part-time employees – 35%.



The high quality of education provided by the years of experience and strong capabilities of teaching staff of the Department. The average length of employment in the department of educational activities of employees in higher education is 8 years.

In order to maintain a high level of scientific and pedagogical staff of the Department employees take annual specialization courses, pre-certification courses, thematic improvement courses et al., including pedagogical skills courses and courses on introduction into the educational process of innovative Internet technologies and distance learning.



## DEPARTMENT'S EDUCATIONAL WORK

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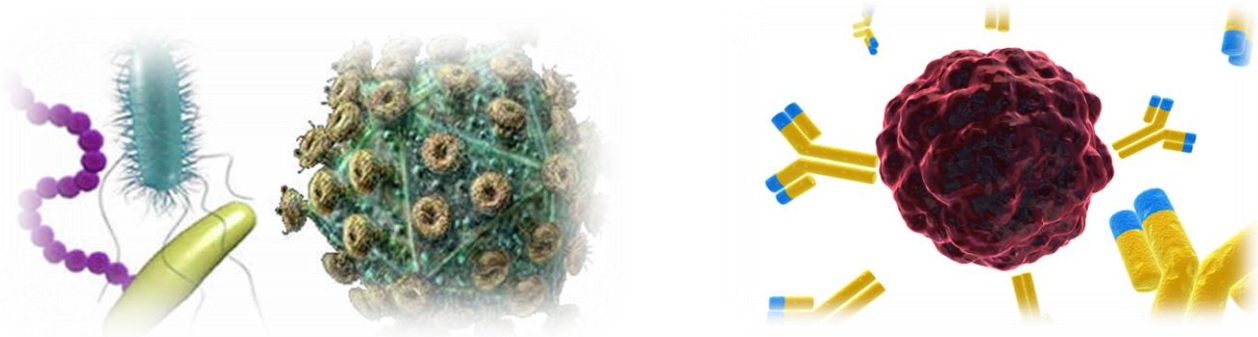
Educational work of the Department is one of its priorities. Students can obtain training in 6 disciplines in English or Ukrainian. The total volume of academic load is 20 500 academic hours, including 260 lecture hours and 16 780 practical and seminar lessons.



For efficient education of undergraduate students, the School of the Department uses the Recommendations to discipline's Standardized Curriculum, approved by the Ministry of Health and Ministry of Education and Science of Ukraine in the framework of regulated guidelines for departmental school. Student's education and training is conducted according to the guidelines of Bologna Processes.

The educational process at the Department is carried out using modern multimedia and computer equipment, and sufficient amount of visual material with the active involvement of students in the clinical and scientific work of the Department, as well as the use of innovative approaches to the educational process (on-line



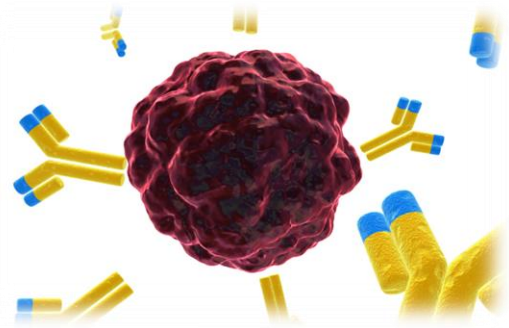
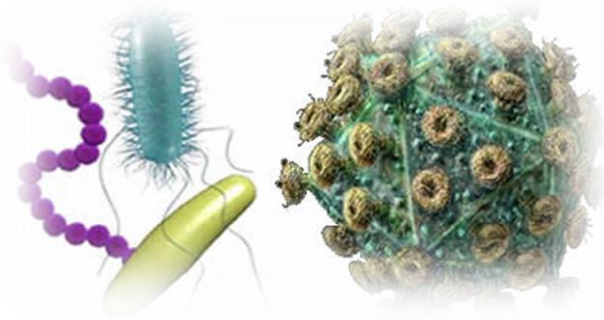


consultation for students, discussion of different issues in voice and text chats, online monitoring the students preparation for the license exam KROK, etc.).

During the training at the Department students have a great opportunity to familiarize themselves with modern diagnostic and laboratory equipment, which the department offers: colorimeter, centrifuge, personal computers, Microscope "Primo Star", microscopes "MICRR0med", analyzer.

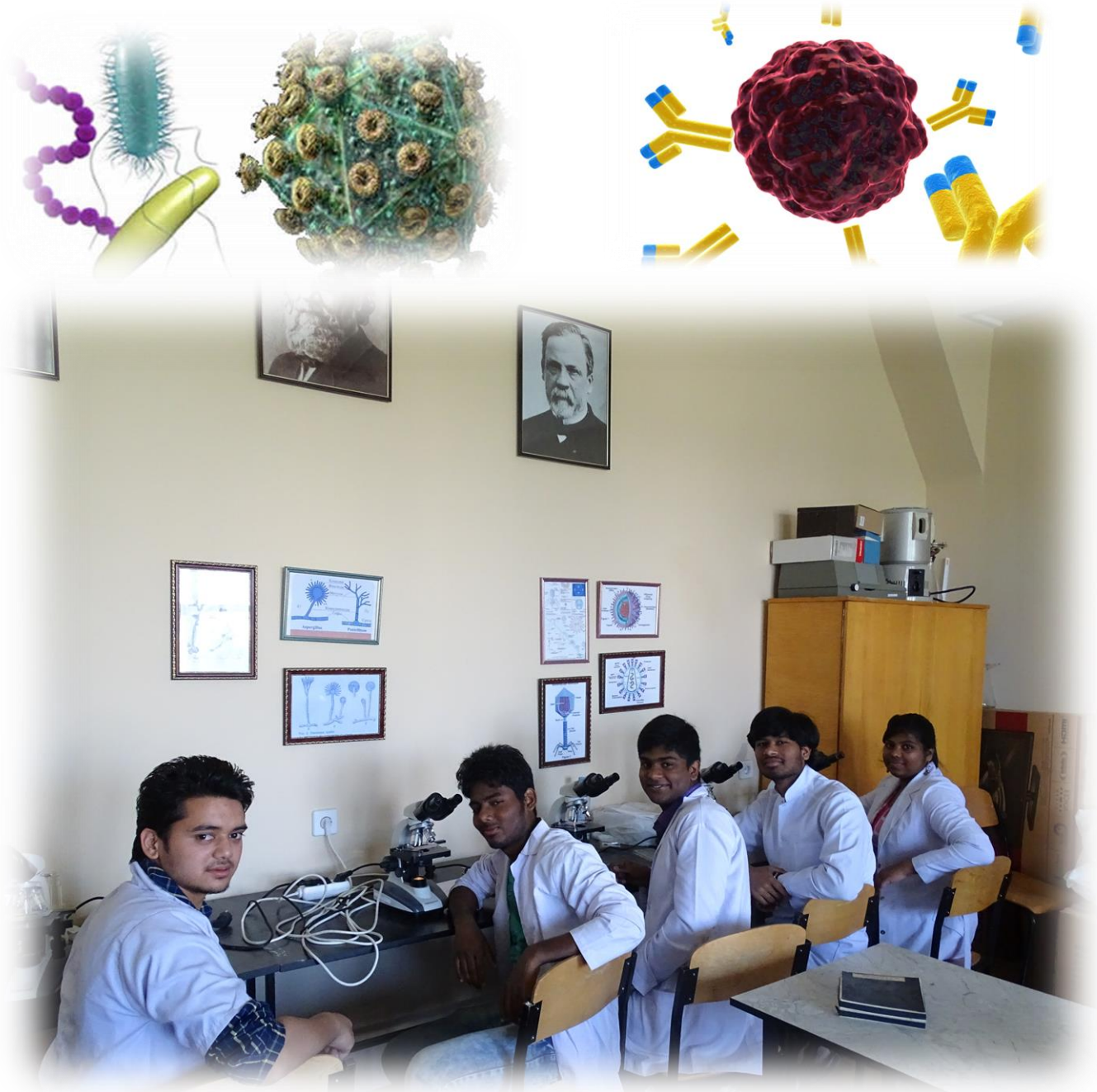


Practical lessons maximum simulate clinical practice. With the school teachers our students do clinical examinations, take histories, manage the patients, participate in clinical rounds, conferences, workshops, etc. This way, students gain valuable clinical experience during training at the Department.



Particular attention is paid to the process of preparation to the licensing exam KROK 1 and KROK 2, which is carried out with the analysis of tests of all available databases and tests, using software specially developed for the School of Medicine, computer labs and multimedia equipment, on-line distance learning systems, full-time and online teachers' consultations in preparation for KROK during the whole course with equal distribution of the load on the students. Our students have the highest score among other students of Ukrainian schools of medicine and get top-ranking scores, which proves the efficiency of our teaching methods.

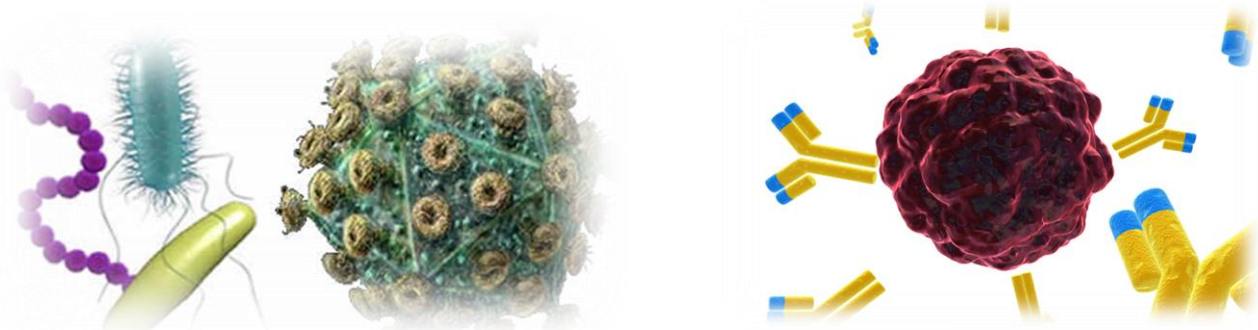
To enrich student's experience the School of the Department of General and Clinical Pathology helps interested students to reach the highest potential and to compete with peers at National Ukrainian Olympiads/Competitions, scientific conferences, conventions, etc. Every year our students win prizes and get rewarded with special achievement certificates, badges, pins, etc.



## DEPARTMENT'S DISCIPLINES

At the Department of General and Clinical Immunology and Allergology students are trained in Ukrainian and English on the following 6 subjects:

⇒ **Microbiology, virology and immunology** for students of 2-3 courses. Head of teaching discipline full professor, Doctor of Medicine Popov Nikolai; teachers disciplines (Ukrainian language of education): Kozlov Aleksandr, associate professor, Candidate of Medicine; Korobkova Irina, associate professor, Candidate of Medicine; Voronkina Irina, associate professor, Candidate of Medicine; Derkach Svetlana, associate professor, Candidate of Medicine; Mironenko Lyudmila, associate professor, Candidate of Medicine; Isaenko Elena, associate professor, Candidate of Medicine; discipline teachers (English language of education): Malanchuk Roman, associate professor, Candidate of Medicine; Malanchuk Svetlana,



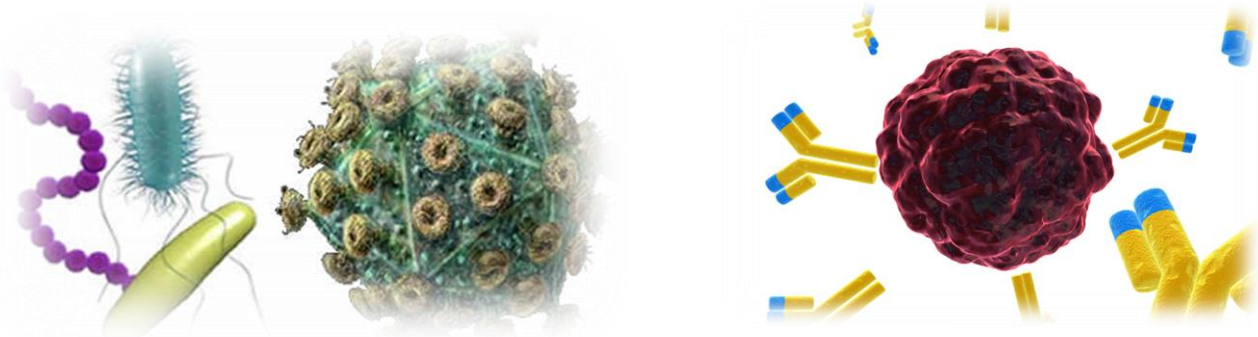
assistant; Sorokina Olga, assistant; Grechishkina Julia, assistant; Gamilovskaya Alla, assistant.

- ⇒ **Phthysiology** for students 4 and 6 of the course. Head of teaching discipline associate professor, Candidate of Medicine Poteyko Peter; teachers disciplines (Ukrainian language of education): Lyashenko Alexander, associate professor, Candidate of Medicine; discipline teachers (English Language of education): Podorozhnaya Alla, associate professor, Candidate of Medicine; Rogozhin Anton, assistant; Konstantinovskaya Olga, assistant.
- ⇒ **Dermatology** for students 4 courses. Head of course associate professor, Candidate of Medicine Muzhichuk Vladimir; teachers disciplines (Ukrainian language of education): Agapova Irina, assistant; discipline teachers (English Language of education): Gololobova Olesya, associate professor, Candidate of Medicine; Ata Mohammed Abbas, assistant.
- ⇒ **Clinical immunology** for students 5 courses. Head of course Full Professor, Doctor of Medicine Popov Nikolai; teachers disciplines (Ukrainian language of education): Savvo Alexei, associate professor, Candidate of Medicine; discipline teachers (English Language of education): Ognivenko Elena, associate professor, Candidate of Medicine; Olenich Vera, assistant, Veklich Ksenia, assistant.
- ⇒ **Epidemiology** for 5 courses. Head of course associate professor, Candidate of Medicine Volobueva Olga; teachers disciplines (Ukrainian language of education): Liadova Tatiana, associate professor, Candidate of Medicine; Vinnikova Natalia, assistant; discipline teachers (English Language of education): Sanina Ekaterina, assistant.
- ⇒ **Infectious diseases** for students 5 and 6 courses. Head of course associate professor, Candidate of Medicine Liadova Tatiana; teachers disciplines (Ukrainian language of education): Volobueva Olga, associate professor, Candidate of Medicine; Vinnikova Natalia, assistant; discipline teachers (English Language of education): Gololobova Olesya, associate professor, Candidate of Medicine; Sanina Ekaterina, assistant.

## DEPARTMENT'S METHODOICAL WORK

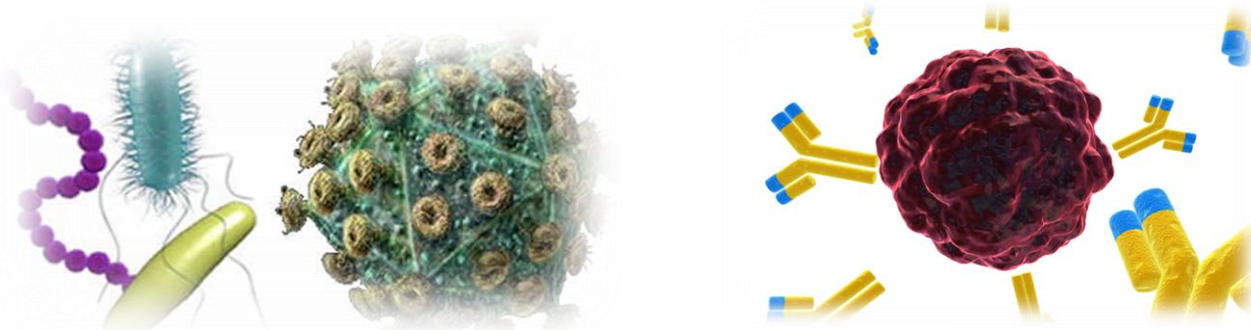
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Methodical work of the Department is conducted on an ongoing basis, which results in complete methodical maintenance of disciplines. Teaching materials



prepared by the School are available for students in electronic version online, on servers of the School of Medicine internal computer network, in University's electronic depository, as well as in printed form.





As a result of methodical work during the period of the department's existence the staff prepared 5 textbooks with the stamp of the Ministry of Healthcare of Ukraine, 7 textbooks with the stamp of Ministry of Education and Science of Ukraine, 15 textbooks with the stamp of the University, 5 monographs, over 20 manuals, over 40 study guides and methodological recommendations, including 5 – in English.

Methodical packages are created and constantly updated on all the department's disciplines, including work programs, calendar and thematic plans, methodology for assessing students' knowledge and skills, methodological recommendations for practical training for students' independent work, instructions for students' training in terms of Bologna process, database of tests and situational tasks for the current and final module control of students' knowledge and skills, checklist of questions and recommended reading, texts and multimedia presentations of lectures, etc.

## DEPARTMENT'S SCIENTIFIC WORK

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The scientific work of the Department is an integral part of its activities. Thanks to their research, employees of the department are recognized experts in their fields, not only in Ukraine, but also abroad.

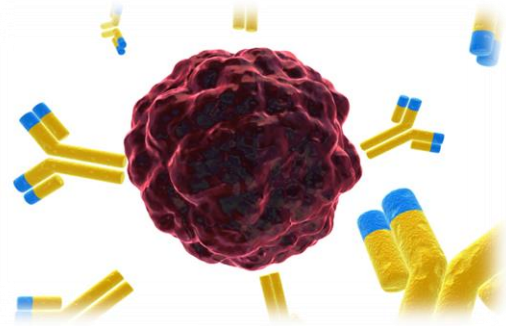
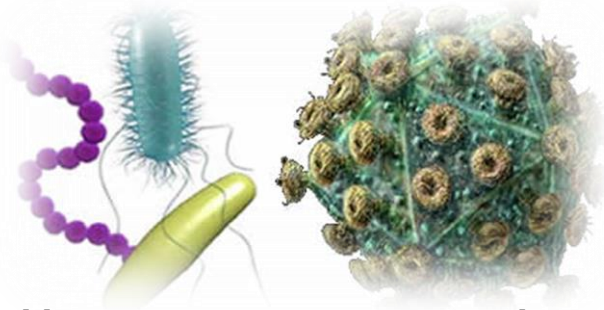
The Department carries out three research:

- ⇒ "Practical aspects of electromagnetic radiation in medicine and agriculture» №171411;
- ⇒ "Development of effective treatment technology and immunorehabilitation of sickly children with lymphadenopathy syndrome of immunization and infectious diseases» № 0110U001447;
- ⇒ "The role of immune, autoimmune and metabolic disorders in the pathogenesis and outcomes of infection caused by the herpes viruses» № 112U005911.

The main directions of scientific research of the Department are immunological aspects of infectious and somatic diseases.

Since the founding of the Department, the staff defended 10 candidate and 2 doctoral dissertations. Currently at the Department there are 2 candidate and 1 doctoral dissertations planned and executed.

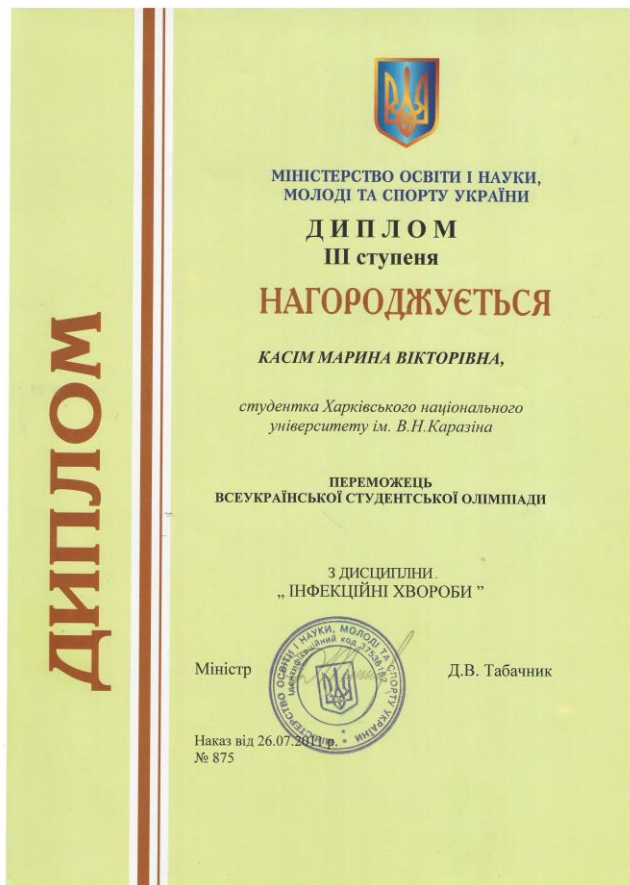
During the department existence the results of its staff own research are displayed in 20 articles published in journals that have impact factor and are included in the foreign scientometric base and more than 300 articles in domestic specialized



publications. Innovative approaches in research are confirmed by 18 patents and copyright certificates.

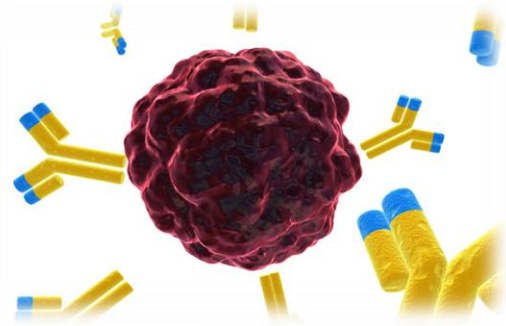
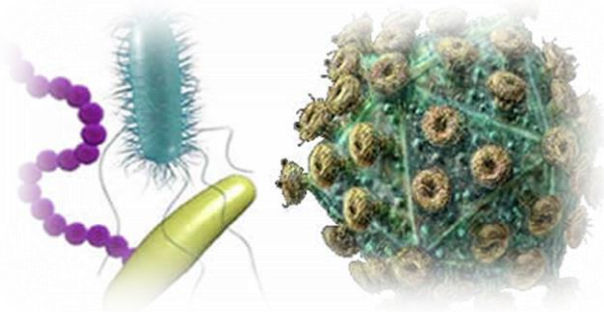
The School organized and carried out more than 20 scientific and practical conferences, including 18 International. Staff of the Department reported the results of its own research in 50 conferences, congresses, symposiums, forums, etc., including 25 International.

Scientific and clinical contacts of the Department are established with Mechnikov Institute of Microbiology and Immunology of National Academy of medical sciences of Ukraine. An agreement on the exchange of experience, scientific cooperation and joint scientific research was signed there.



The integral part of the scientific work of the Department is the organization of student scientific clubs, which are the structural units of the Scientific community of students, graduate students, doctoral students and young scientists of the School of Medicine. Students of scientific clubs of the Department together with staff of the Department are actively involved in clinical and scientific conferences, congresses, forums, symposiums and research. As a result, more than five articles in specialized publications were published.

Students of the research scientific clubs of the Department organized and conducted 6 scientific conferences, 2 of which were international, where students presented the results of their researches.



## DEPARTMENT'S CLINICAL BASES

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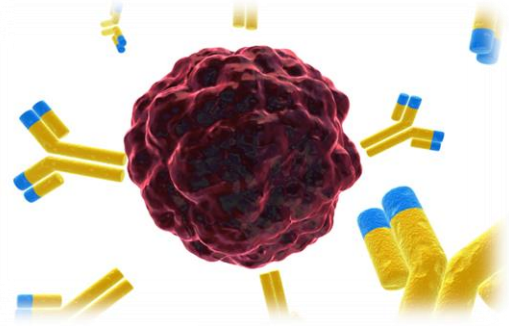
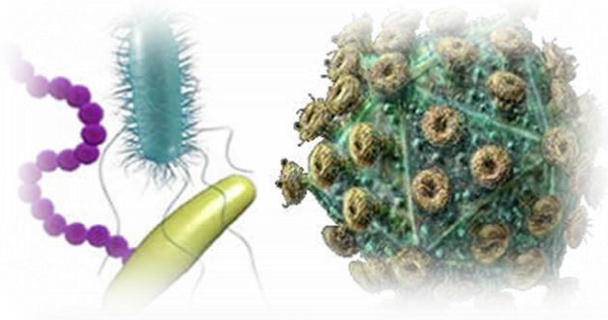
Clinical bases of the Department of General and Clinical Immunology and Allergology is the leading agency of the health system of Ukraine, known for its scientific and clinical potential far beyond Ukraine:

- ⇒ Mechnikov Institute of Microbiology and Immunology of National Academy of Medicine of Ukraine;
- ⇒ Regional Infectious Diseases Hospital;
- ⇒ Regional Children's Hospital;
- ⇒ Regional Clinical TB Dispensary №7;
- ⇒ City Dermatological and Venereal Diseases Clinic №2.

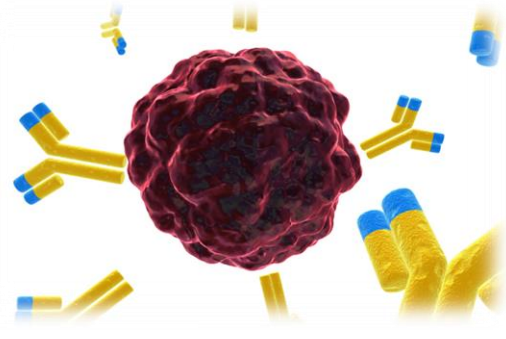
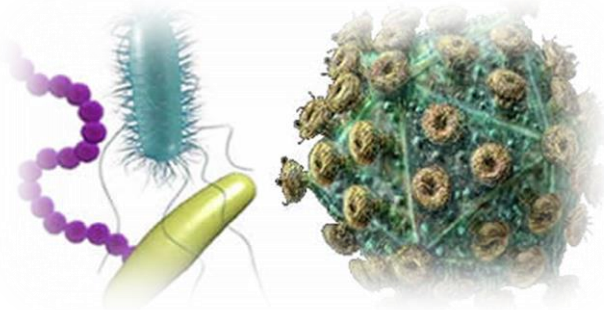


In clinical sites lectures, practical and laboratory classes, clinical reviews with the participation of students are conducted, practical skills and consolidation of theoretical knowledge are formed. Members of the students' scientific clubs of the Department are actively involved in scientific research, which are based on the clinical bases of the department.





Clinical work of the Department of General and Clinical Immunology and Allergology is performed by employees of the Department at clinical sites with the involvement of students in the study of relevant disciplines.



## CONTACT INFORMATION

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### **DEPARTMENT OF GENERAL AND CLINICAL IMMUNOLOGY AND ALLERGOLOGY**

**Address:** 61077, Kharkiv, Svobody Sq. 6, V. N. Karazin Kharkiv National University, School of Medicine, Department of General and Clinical Immunology and Allergology, r. № 569

**Website:** <http://okia.univer.kharkov.ua>

**E-mail:** [okia@karazin.ua](mailto:okia@karazin.ua)

**Phone:** +38 (057) 707-54-50

**Location map:** <https://goo.gl/maps/1wpV6b6mqME2>

### **REGIONAL CLINICAL HOSPITAL OF INFECTIONS DISEASES**

**Address:** Kharkiv, Heroes of Stalingrad Avenue, 160

**Directions:** Subway Station Prospect Gagarina, buses number 5, 147, 304; Subway Station Marshall Zhukov, trolleybus number 1, buses number 226, 227

**Location map:** <https://goo.gl/maps/PSwBaPx9k3P2>

### **REGION CLINICAL CHILDREN'S HOSPITAL**

**Address:** Kharkiv, Klochkovskaya Street, 337a

**Directions:** Subway Station Derzhprom, bus number 217; Subway Station August 23, bus number 263

**Location map:** <https://goo.gl/maps/v6NjiSCPQgR2>

### **REGIONAL CLINICAL TB DISPENSARY NUMBER 7**

**Address:** Kharkiv, Moskovsky Avenue, 197

**Directions:** Subway Station Moskovsky Prospect

**Location map:** <https://goo.gl/maps/co6zLGcBpEU2>

### **CITY SKIN AND VENEREAL DISEASES DISPENSARY NUMBER 2**

**Address:** Kharkiv, Ivana Kamysheva Street, 8

**Directions:** trams number 2, 6, and 27, 16A from the Subway Station Ploschad Vostania or Subway Station Academic Barabashov

**Location map:** <https://goo.gl/maps/N2k7qKmZNeA2>