MAIN SCIENTIFIC DIRECTIONS

- Optimization of treatment methods for surgical and oncological diseases, development and experimental approbation new methods of diagnostics, treatment and prevention of surgical and oncologic diseases;
- cell technologies and development of tissue-engineered constructs for replacement therapy in the treatment of surgical pathology; cell technologies and the development of tissue-engineered constructs for the treatment of surgical pathology;
- development of a systematic approach to optimizing and personalizing pharmacotherapy for patients with diseases of internal organs, monitoring the efficacy and safety of drug therapy;
- studying the issues of carcinogenesis;
- development of a multidisciplinary approach to the problem of cardiovascular diseases: CHD, AH, dyslipidemia, multifocal atherosclerosis;
- study of cardiotoxicity of antitumor drugs in the experiment and in the clinic in the light of an integrated approach to the problem to the problem of Cardio-oncology» problem.

SCIENTIFIC RESEARCH INSTITUTE OF EXPERIMENTAL MEDICINE

WE INVITE SCIENTIFIC TEAMS AND REPRESENTATIVES OF THE MEDICAL COMMUNITY FOR COOPERATION!

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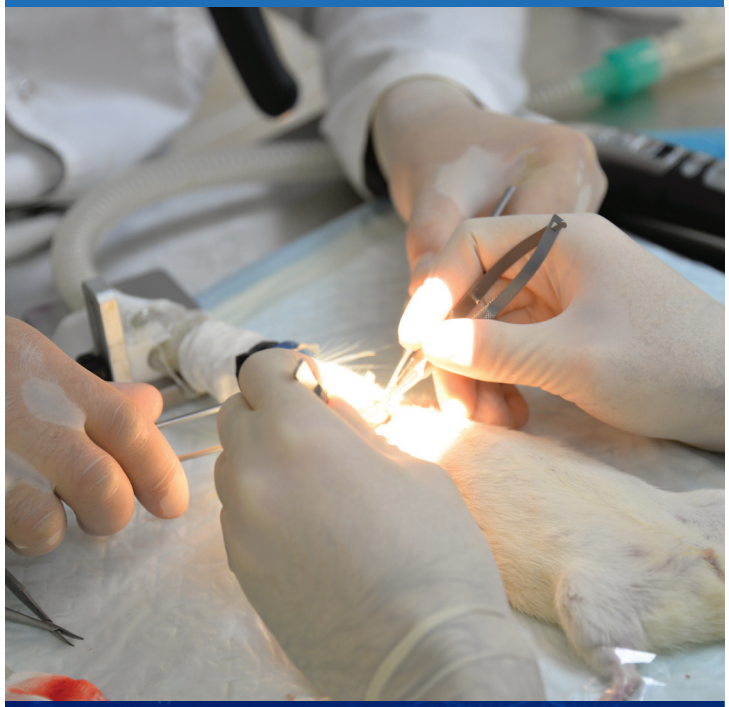
КУРСКИЙ ГОСУДАРСТВЕННЫЙ МЕДИЦИНСКИЙ УНИВЕРСИТЕТ
KURSK STATE MEDICAL UNIVERSITY



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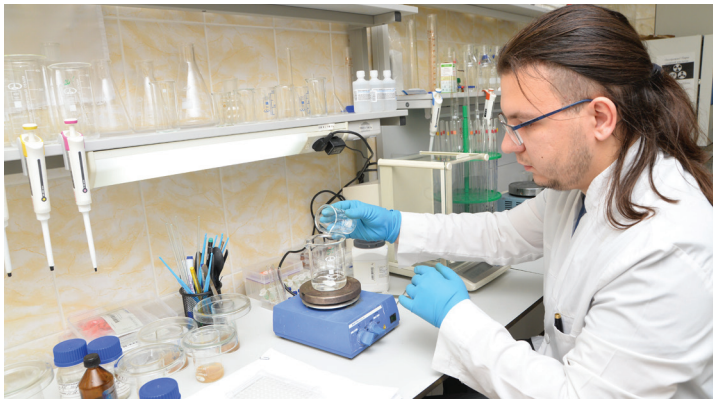
EFFICACY LABORATORY
DRUG THERAPY EFFICACY AND SAFETY

- conducting pharmacoepidemiologic and pharmacoeconomic studies of drug utilization patterns for patients with diseases of internal organs;

- evaluation of pharmacokinetic and genetic determinants of effective and safe pharmacotherapy for patients with diseases of internal organs.



PRECLINICAL LABORATORY
DRUG RESEARCH

- Research of toxicological and pharmacological properties of new and reproduced drugs and biologically active substances;

- Experimental substantiation of new approaches to the treatment of critical limb ischemia and correction of osteoporosis disorders in fractures of long tubular bones in experiment;

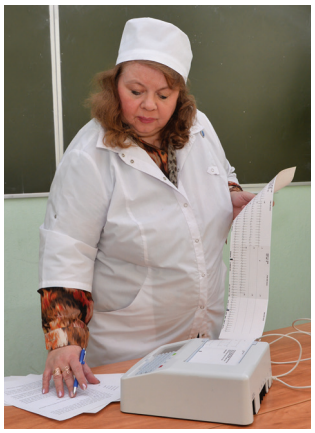
The laboratory meets the requirements of the standard ISO 9001:2008 with regard to the performance of preclinical studies of drugs and biologically active substances.

EXPERIMENTAL LABORATORY
CARDIOPHARMACOLOGY

- development of schemes of application of cardioprotective drugs of different classes to prevent cardiotoxicity of antitumor agents;

- evaluation of drug response within the framework of personalized pharmacotherapy;

- screening and correction undesirable effects on the cardiovascular system of antineoplastic drugs.

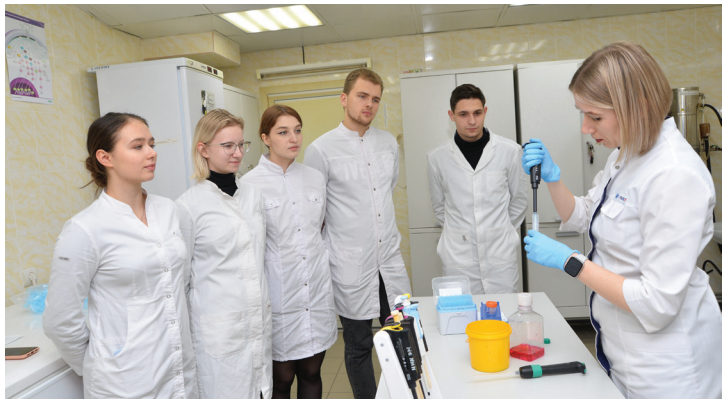


LABORATORY OF BIOCHEMISTRY
AND FUNDAMENTAL CARCINOGENESIS

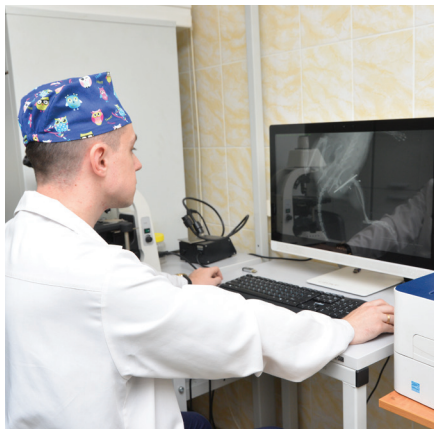
- performance of biochemical, hematologic studies during preclinical trials of drugs, biologically active substances, medical devices and planned R&D of KSMU.

- Study of mechanisms of development of drug resistance of various tumor types, development of ways to overcome them (in vitro and in vivo);

- evaluation of new biologically active substances as potential antitumor substances. Study of mechanisms of carcinogenesis.



EXPERIMENTAL LABORATORY OF SURGERY
AND ONCOLOGY



Laboratory of Experimental Surgery and Oncology is equipped with the necessary equipment for modeling surgical pathologies, research of new methods of their diagnostics, treatment and prophylaxis within the following directions, treatment and prevention in the following areas: abdominal surgery, vascular surgery, neurosurgery, microencapsulation of drugs, urology, herniology, development of new suture material.

MEDICAL DEVICE TESTING
LABORATORY

The main area of work is preclinical testing of medical devices, design and development of new medical devices aimed to replace imported analogs. Carrying out research and development work, aimed to improve the quality of medical care through the creation of new and improvement of existing medical devices.