Dear colleagues!

Sechenov University’s mission lies in thoroughly and continually improving the lives of individuals through achieving differentiated excellence in the fields of multidisciplinary translational biomedical research and cutting-edge research-based education with a focus on innovation, development, and implementation. The strategic goal of Sechenov First MSMU consists in joining the international research and educational community to become an international medical research university number 1 in Russia to effectively collaborate with international partners in the field of biomedicine.

Sechenov First MSMU develops «the medicine of the future» on the solid academic basis of clinical medicine broadening the horizons with proactive multidisciplinary studies in the network cooperation with world leaders in engineering, technology and natural sciences.

Sechenov University trains professionals able to work effectively in the changing environment, to be leaders and to respond to challenges of time.

Rector

Petr V. Glybochko
FACTS AND FIGURES

17,000
Undergraduate students

2,500
Foreign students

8
University teaching hospitals

102
Educational programs

≈ 362,000 m²
Educational and research facilities: 150 buildings

≈ $10,7m
Research income

2,100
Highly qualified faculty

10
Research institutes

153
Research associates

21,000
Postgraduates

≈ $224m
Total annual university income

85%
Of teachers have academic degrees

HISTORY

1930
The medical faculty of the Moscow State University became an independent higher educational institution – the First Moscow Medical Institute (First MMI)

1955
The institution was named after Ivan Mikhailovich Sechenov

2010
I.M. Sechenov Moscow Medical Academy was granted the University status

Sechenov University is the oldest and largest Russian medical school and the successor of the medical faculty of the Emperor’s Moscow University.

est. 1758

Sechenov University is the only Russian medical university in QS Medicine, THE WUR

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DISTINGUISHED ALUMNI

Ivan Sechenov
Founder of the first Russian school of physiology. He made a great contribution to the study of the brain: thalamus inhibition center, central inhibition phenomenon, etc.

Nikolai Sklifosovsky
Russian professor, author of a number of works in military abdominal surgery and dentistry. He made a significant contribution to the development of oral surgery and antiseptics.

Anton Chekhov
Great short story writer and playwright, physician, who made a great contribution to the classic literature of the world. His works are published in more than a hundred languages.

Nikolai Pirogov
Founder of anaesthesiology and military surgery in Russia, the author of the first atlas of topographic anatomy. Made a significant contribution to the Russian system of education.

RESEARCH FOCUS

Science and Technology Park for Biomedicine

Centre for Research and Education in Translational Medicine
Institute for Translational Medicine and Bioengineering

Centre for Biotechnology and Small Bench Manufacturing
Engineering centre, Technology Park
Small bench production site

Centre for Basic Research
Institute for Regenerative Medicine, Institute for Molecular Medicine
Biobank

1,500+
papers and
100+ monographs annually

200
authorship certificates and patents since 2013

80
student’s research clubs with 1000+ members

60+
laboratories and departments
INSTITUTE FOR REGENERATIVE MEDICINE

Research Focus
To develop approaches to help patients suffering from incurable or intractable diseases using the regenerative medicine paradigm

On-going Projects
- Tissue engineering of the heart valve, blood vessels, trachea, cartilage and urethra
- Biomaterial and scaffold design for neural regeneration
- 3D Bioprinting of functional complex tissues
- Microfluidic Organ-on-a-Chip systems for high-content screening
- Cell therapy of diabetic ulcers, peritonitis, and liver cirrhosis and fibrosis
- Study on safety and efficacy of tissue-engineered constructs in preclinical and clinical trials
- Biobanking

The list of labs/departments
- Department of Advanced Cell Technologies
- Department of Advanced Biomaterials
- Laboratory of Skeletal Muscle Regeneration
- Laboratory of Experimental Morphology
- Department of Regenerative Hepatobiliary Surgery
- Biobank

INSTITUTE FOR MOLECULAR MEDICINE

Research Focus
Identification of molecular markers and molecular targets of human diseases; development of novel teranostic tools.

On-going Projects
- Interactive nanocomposite biomaterials (smart-scaffolds) for tissue engineering
- Molecular profiling of tumors to identify new genes responsible for the development of sporadic, hereditary and family stomach cancer
- Prevalence of gluten-related diseases in Russia and the development of a new technological approach for gluten-free foods production
- The cellular response to the accumulation of amyloid aggregates in the pathogenesis of Parkinson’s disease
- The effect & cell factors mechanisms on renal cell carcinoma metastasis regulating
- New modulators of sensory neurons receptors

The list of labs/departments
- Department of Biomedical Engineering
- Laboratory of Medical Genetics
- Laboratory of Molecular and Cellular Biology
- Laboratory of Molecular Biology and Biochemistry
- Laboratory of psychiatric neurobiology
- Biobank
INSTITUTE FOR PERSONALIZED MEDICINE

Research Focus

On-going Projects
"University hospital at home" – the implementation of the “Personal account of the patient” and “Health Banking” with the “Home-based hospital” telemonitoring service using the Internet of medical devices
"SechenovConsilium” – federal professional telemedicine reference center
"SechenovOncoPrevent” – Early risk-assessment tool
"BigData for Everyone” – big data processing

The list of labs /departments
Health Management Clinic
Department of Analytical Toxicology, Pharmaceutical Chemistry and Pharmacognosy
Department of Biotechnology
Department of Higher Mathematics and Modeling
Clinical and genomic bioinformatics Lab
Center of medical information systems and technologies
e-Health Lab

INSTITUTE FOR TRANSLATIONAL MEDICINE AND BIOTECHNOLOGY

Research Focus
Translation of research results of biopharmaceuticals and small molecules drug discovery to clinical routine.

On-going Projects
• New drugs R&D – an inhibitor of dipeptidyl peptidase-IV and a new generation drug for the treatment of type 2 diabetes mellitus acting at the level of a peroxisome proliferator activated receptor
• Medico-biological technologies for metabolic profiling by markers diseases as the basis for implementing methods of personalized medicine
• Nanotransport for antineoplastic drugs
• Early diagnosis of cancer

The list of labs /departments
Department of Analytical Toxicology, Pharmaceutical Chemistry and Pharmacognosy
Department of Biotechnology
Department of Higher Mathematics and Modeling
Laboratory of Bioinformatics
Laboratory of Directed Transport Systems
Laboratory of Pharmacokinetics and Metabolome Analysis
Center for Preclinical Studies
Center of Pharmaceutical Technologies
Center of Bioanalytical Research and Molecular Design
INSTITUTE FOR BIONIC TECHNOLOGIES AND ENGINEERING

Research Focus

On-going Projects
- Artificial heart
- Artificial kidney
- Antibacterial coatings for artificial prostheses and organs
- Personalized diagnostic systems for assistance with decision-making in early diagnosis of diseases.
- Biological properties of nanocomposite coatings for joint ligaments implants
- Biological properties of implantation nanomaterial for bone-cartilage defects restoration

The list of labs /departments
- Laboratory of Wearable Biocompatible Devices and Bionic Prostheses
- Laboratory of Biomedical Nanotechnology

EDUCATIONAL FOCUS

Undergraduate
4 Bachelor degree courses
8 Master programs
9 Specialist programs
10 Internationally recognized programs

School - university - hospital model of continuous medical education with early introduction to the profession

Postgraduate
65 Programs in clinical residency
47 PhD programs
INTERNATIONAL SCHOOL «MEDICINE OF THE FUTURE»

Goals
- Train the next generation of healthcare professionals
- New models of medical education
- Innovative educational technologies

Advantages
- Novel educational programmes
- International internship for talented students
- Advanced training in English

New educational programmes

- Medicine
- IT-doctor
- Network doctor
- Tissue engineer
- Nanopharmacologist
- Biotechnology
- Information systems

Novel cross-disciplinary programmes in Life Sciences
- Mechanics and math modelling
- Information systems and technologies
- Nanomaterials
- Materials Science and Technology
TEACHING CLINICS
est. 1804

3,500+ beds

20 teaching hospitals

71,000 inpatients annually

430,000 outpatients annually