SECHENOV UNIVERSITY

Sechenov University – 265 Years of Tradition and Progress:

How New Technologies Shape Medicine and Education

Vice-Rector for International Affairs
Mikhail Brovko

The Best Medical Education – More Than 265 Years

Medical faculty of
Moscow Imperial University
1758

University Campus on Devichye Pole
1897

First MMI (First MOLMI)
1940

I.M. Sechenov First Moscow State Medical University
2010

The first faculty clinic on Rozhdestvenka
1846

First Moscow Medical Institute (First MMI)
1930

I.M. Sechenov Moscow Medical Academy
1990

Sechenov University in Numbers

SECHENOV UNIVERSITY

THE LARGEST MEDICAL UNIVERSITY IN RUSSIA

27000

students

6000+

international students

114

countries

235 educational programs

16 master's degree programs

80 areas of PhD programs

QS WORLD UNIVERSITY RANKINGS

Top-92 (Pharmacy & Pharmacology)
Top-250 (Life Sciences & Medicine)

*Every year Sechenov University graduates more than **4,000** specialists in Medicine, Pharmacy and Biomedicine*

Advanced medical care and cutting-edge research

SECHENOV UNIVERSITY

ONE OF THE BIGGEST MEDICAL CENTERS IN EUROPE

5
Hospitals

75 000
In-patients

50
areas of high-tech medical care

144 000
Out-patients

Traumotology | Cardiology | Genetics | Radiology | Neurosurgery | Robot-assisted surgery | Oncology

LEADER AMONG RUSSIAN MEDICAL UNIVERSITIES IN TERMS OF SCIENTIFIC RESEARCH

1573
PhD

13
joint labs with industry

645
Doctors of Science

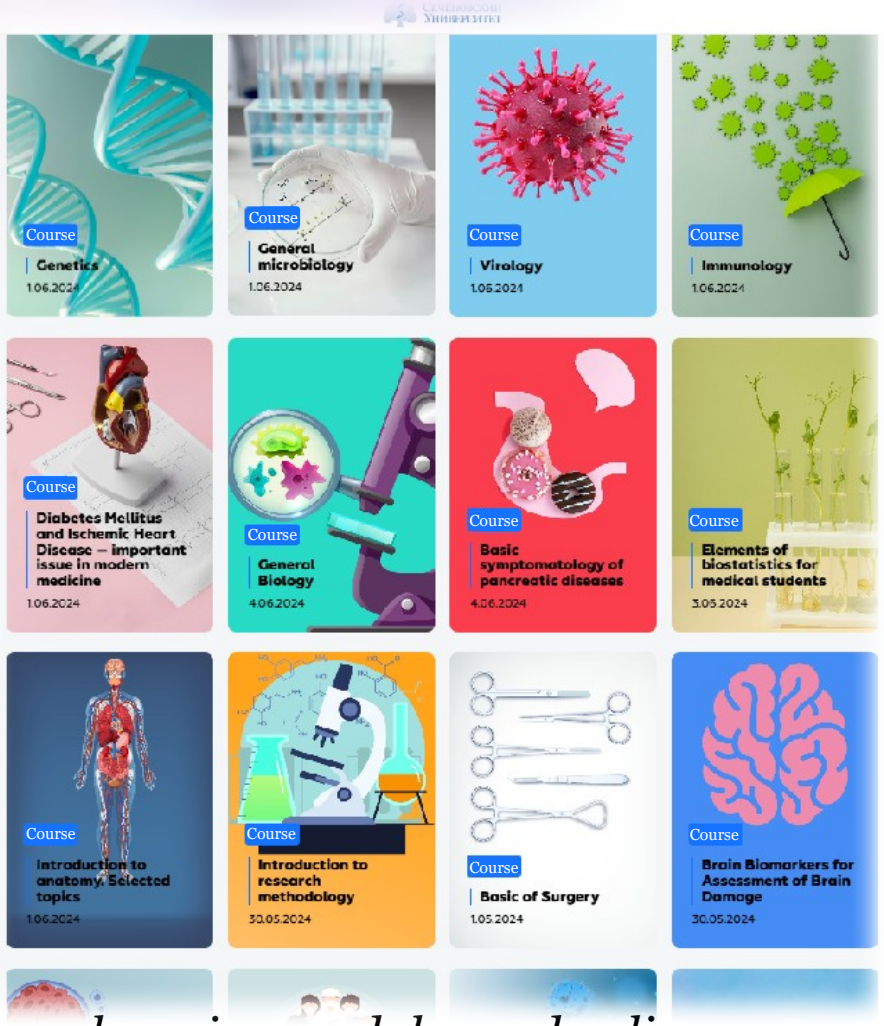
4000+
papers annually in Scopus

115
departments

25
Scientific and educational centers

BIOMEDICAL PARK

Sechenov University: Digital Technologies in Education



New e-learning modules and online courses

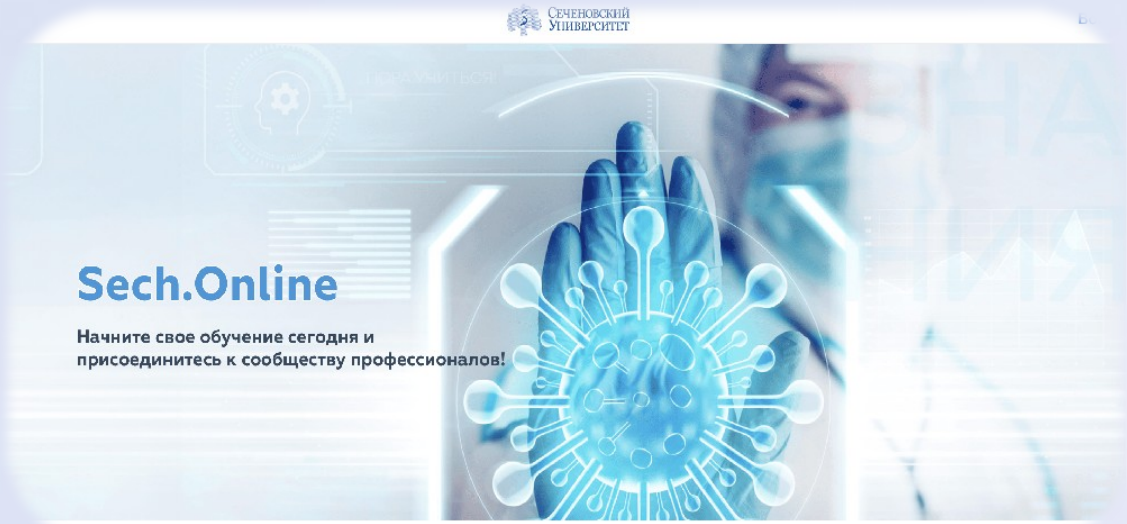
Sechenov.Online

digital learning environment

Adaptive learning

Learning history

Real-time analytics



Central medical hub for knowledge and technology exchange in Russia

Sechenov University Campus "School-21"

SECHENOV UNIVERSITY

In collaboration with the tech giant ***Sber***

- No traditional lectures and professors
- Self-directed learning process
- Training in Project Lab
- P2P knowledge sharing

Areas of study:

- Basic Programmer skills
- AI and Machine learning
- Software Architecture
- UX/UI design
- Data analytics
- Project Management

Digital Learning Center at Sechenov University

SECHENOV UNIVERSITY

DocAI system project

AI-based platform automates the search and analysis of medical data and scientific research

Implementation in 2025

adapts information to individual student needs

processes large volumes of information

The goal

to simplify medical student training

DIGITAL LEARNING CENTER

- DevOps in medicine
- Developer of digital medical services
- Analyst of medical data
- Developer of VR/AR solutions

Innovative Digital Technologies

«Virtual Patient»

*digital system has been developed and implemented at Sechenov University since **2021**. Today, it is used in **8** Russian universities*

THE SYSTEM INCLUDES:

Training simulator

- Interactive training material based on clinical guidelines
- Automated generation of new tasks (cases) based on reference systems and available media material
- Automatic system for assessing tests and tasks (cases)

*Future plans include implementation of **GPT-based AI models** and an **AI-powered medical decision support module***

Sechenov University: Leading in Medical AI in Russia

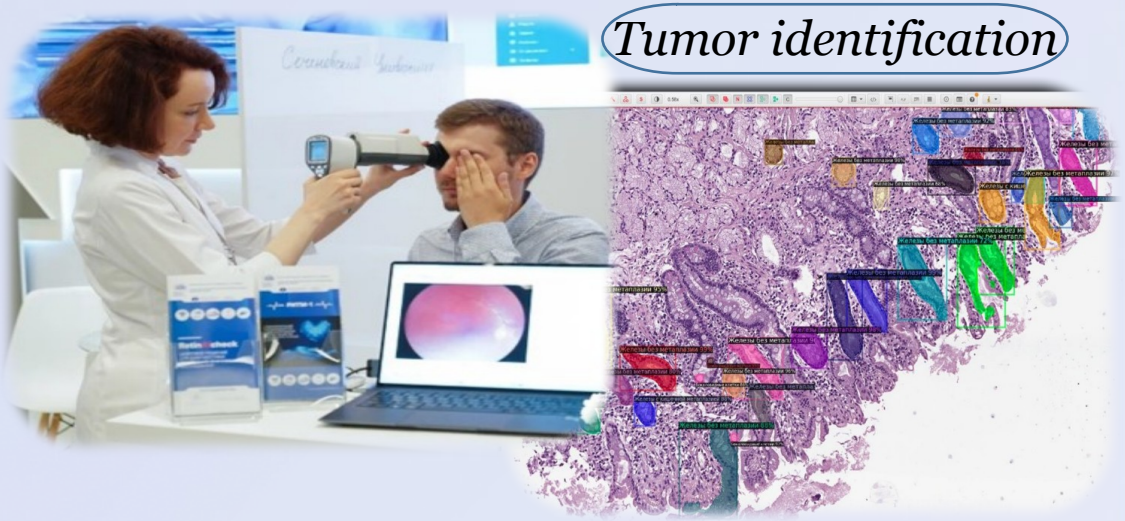
SECHENOV UNIVERSITY

AI in diagnostics

Cardiology, Oncology

AI-based computer vision

Tumor identification

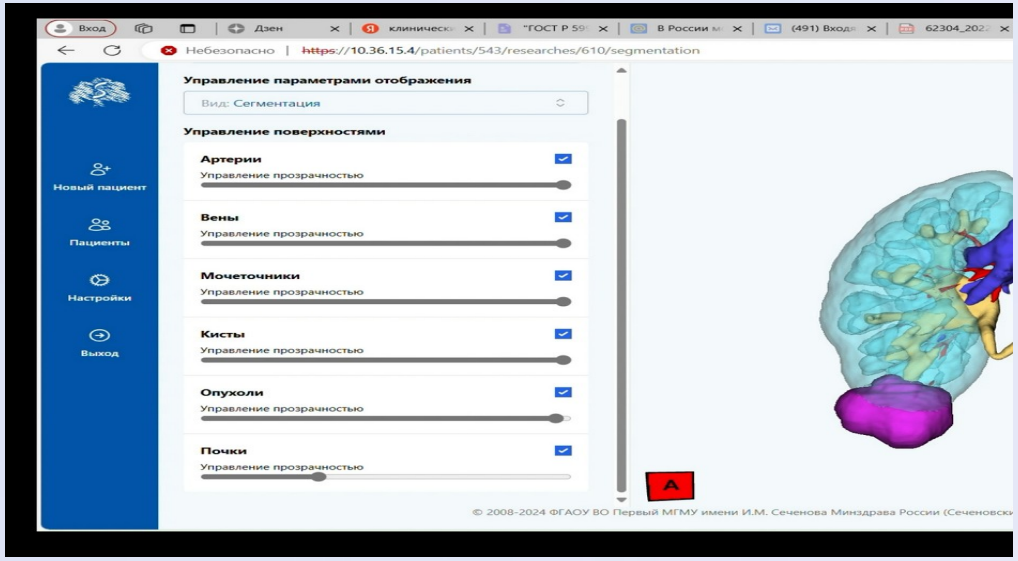


Automatic marking of pathology slide using AI

AI in surgery

Urology

CT scans merging for a more precise imaging of renal tumors



SECHENOV UNIVERSITY

Thank you for your attention