

# PROGRAM



**SIBS 2017**

**SECHENOV  
INTERNATIONAL  
BIOMEDICAL SUMMIT 2017**

16.06 - 20.06.2017,  
I.M. SECHENOV FIRST  
MOSCOW STATE MEDICAL UNIVERSITY  
MOSCOW, RUSSIA



SECHENOV UNIVERSITY

## ORGANISER



SECHENOV UNIVERSITY

## GENERAL PARTNER



## PARTNER





Dear Colleagues!

I am pleased to welcome you at the Sechenov International Biomedical Summit 2017.

Sechenov University is rightfully regarded as the flagship of the Russian medicine, the heir of traditions of medical education in this country that date back centuries. Today we are full of ambitious plans worthy of our predecessors. I.M. Sechenov First Moscow State Medical University is currently going through a major transformation into a national research scientific centre – innovative research university of the world level. Its priority is scientific development in a number of interdisciplinary areas. In the course of this development the university implements the initiative of regular interaction with world's leading

scientists and is working on the creation of the Biomedical Science and Technology Park that has no analogues in Russia. The Park is to become a unique platform to speed up the process of creating biomedical products from ideas to industrial production.

We invite most talented Russian scientists, doctors and students to work on the project and make it happen. At the same time our permanent objective is to strengthen our cooperation with world's leading research centres and we are happy to welcome renowned scientists here. To further develop interdisciplinary interaction we have launched Nobel Talks @SechenovUniversity – a project aimed at creating information space to discuss burning interdisciplinary issues and global development problems of mankind to expand boundaries and strengthen positions of Sechenov University not only inside the Russian, but also international scientific community. Sechenov International Biomedical Summit 2017 is one of the events in the frames of this project.

The Summit offers a platform for the Nobel laureates and experts to present the results of the most recent research in genetic engineering, regenerative medicine, molecular and cell biology, biochemistry and biomedical technologies. We are sure that communication with the top scientific experts will give all the participants a serious stimulus to move forward in their research and young scientists will have an opportunity to present their ideas on the topics of the Summit, get feedback and receive recommendations on their research projects from the Nobel laureates and experts in biomedicine.

I am pleased that it is our University that provides a platform to exchange experience between medical scientific communities. It is a great honour and responsibility.

  
Rector  
of Sechenov University  
Petr Glybochko

## About I.M. Sechenov First Moscow State Medical University (Sechenov University)



**Sechenov University** is the major medical educational and scientific institution in Russia aimed at undergraduate & postgraduate training, accreditation healthcare professionals promoting thus further advance of medical science and healthcare domestically and on a global scale. Today Sechenov University covers 3 main areas: education, research and healthcare.

The University has one of the biggest in Europe scientific medical library, 2 unique clinical simulation centers, own botanic garden, and many more facilities that make the University attractive for students from all over the globe.

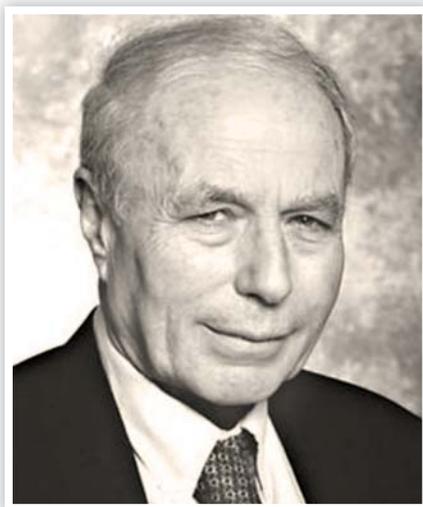
Over 2,500 of academic headcount at 8 faculties encompassing 150 chairs implement training in 14 specialties covering more than 14,000 students and about 15,000 postgraduates practicing full-time, part-time and evening attendance, as well as extramural educational solutions. Hundreds of higher degree theses are defended annually.

85% of the University tutors have higher degrees. The staff includes 4 fellows and 3 corresponding members of the Russian Academy of Sciences, 64 fellows and 38 corresponding members of the Russian Academy of Medical Sciences (RAMS), 3 fellows and 1 corresponding member of the Russian Academy of Education, about 70 Honored Scientists of the Russian Federation and over 100 State Prize winners.

The University incorporates 69 educational venues, 19 hospitals with over 3,000 beds, 7 research institutes and 5 RAMS R&D units, more than 30 laboratories, the greatest medical library in Europe, botanic garden, and many other facilities ensuring academic excellence resulting in powerful research and innovation advances along with cutting-edge medical care practices.

Since 2010 the Sechenov University has been headed by Prof. Petr V. Glybochko, MD, a Member of the RAMS, Member of the European Association of Urology, Vice-President of the Russian Association of Urologists, Chairman of the Education and Methodics Association of Medical and Pharmaceutical HEIs, owning 17 patents, the author of over 450 scientific studies, etc.

## NOBEL LAUREATES



### AVRAM HERSHKO

**Born:** 31 December 1937, Karcag, Hungary.

**Affiliation at the time of the award:** Technion – Israel Institute of Technology, Haifa, Israel

**Prize motivation:** «for the discovery of ubiquitin-mediated protein degradation»

**Field:** biochemistry

**Prize share:** 1/3

#### Work

An important process in our cells is the production of proteins. But proteins must also be broken down. At the beginning of the 1980s, Avram Hershko, Aaron Ciechanover

and Irwin Rose showed that one protein, ubiquitin, has a special mission in this context. When it is time for a protein to be broken down, a ubiquitin molecule attaches itself to the protein. The ubiquitin molecule serves as a key that enters a proteasome, a protein complex that divides the protein into smaller pieces. These can be used in the construction of other substances in the cell.



### ADA E. YONATH

**Born:** 22 June 1939, Jerusalem, British Mandate of Palestine (now Israel).

**Affiliation at the time of the award:** Weizmann Institute of Science, Rehovot, Israel.

**Prize motivation:** «for studies of the structure and function of the ribosome»

**Field:** biochemistry, structural chemistry

**Prize share:** 1/3

#### Life

Ada Yonath was born in Jerusalem, Israel. Her parents had emigrated from Poland. Although her father was a rabbi, her family

tried to make a living by running a grocery store. After her father's death, Ada Yonath's family moved to Tel Aviv. After studying chemistry at Hebrew University in Jerusalem, she earned her PhD from the Weizmann Institute of Science, to which she has maintained her ties as a researcher. Alongside her work there, Ada Yonath has also worked for several European and US universities. She has one daughter.

#### Work

An organism's vital functions are managed by large, complex protein molecules produced in cells' ribosomes. There, genetic information from «messenger RNA» is translated into chains of amino acids that then build proteins. In the 1970s, Ada Yonath began a project that culminated in 2000 in her successful mapping (together with other researchers) of the structure of ribosomes, which consist of hundreds of thousands of atoms, using x-ray crystallography. Among other applications, this has been important in the production of antibiotics.

## GENERAL INFO

### **Registration and Information Desk:**

The registration desk will be located on the 1st floor.

June 16, 2017 – 09:00 – 18:00

June 19, 2017 – 09:00 – 18:00

June 20, 2017 – 09:00 – 18:00

### **Simultaneous Translation**

Simultaneous Translation will be provided for participants in the Congress-hall. You can receive the headphones on a separate HEADPHONE rack near the hall.

### **Slide Preview**

We kindly ask you to bring your presentation in advance and hand it over to the technical specialist at the registration desk. Microsoft PowerPoint 2003 or 2007 presentations should be saved on USB 2.0 Flash Drives for their upload on the Symposium computer.

### **Time limit for presentations**

Set time for each presentation is 10–20 minutes. We kindly ask you to keep up with the established time in order to ensure smooth session operation.

### **Equipment for presentations**

Each conference-hall is provided with a laptop with a PowerPoint program (OS: Windows XP, English version; Software: Microsoft PowerPoint 2007) and screen with a 1024x768 resolution dpi.

### **Internet Access**

Wi-Fi Internet will be provided on the venue during all days the Congress.

### **Meals for participants**

Participants can have meals in the restaurants which are situated near the Congress-center. You can see their location on the scheme given in the materials.

### **Coffee-break**

Coffee-break will be offered to participants in the hall of the first floor in accordance with the program.

### **Press zone**

You can also make a memorable photo against the press-wall, which will be arranged on the 1st floor.

### **Questions**

In case you have more questions regarding the meeting, please turn to the Information or Registration desk throughout the meeting

### **Contacts**

tel.: +7 (499) 390-34-38

e-mail: sibs2017@confreg.org

## VENUE

### CONGRESS-HALL OF I.M. SECHENOV FIRST MOSCOW STATE MEDICAL UNIVERSITY



**Address:** 119991, Moscow, st. Trubetskaya, 8, bld.1

**Metro station:** Frunzenskaya (5–7 minutes on foot)

**Website:** [www.sechenov.ru](http://www.sechenov.ru)

Congress-Hall of I.M. Sechenov First Moscow State Medical University – modern multi-functional congress center with comfortable conference halls.

There is a café, cashpoints on the territory of the Congress-Hall. There is also a paid parking near the Congress-Hall.

Yunost Hotel, Hotel Arena and Hotel Bluz are located within walking distance of the Congress-Hall.

There are a lot of cafes and restaurants near the Frunzenskaya metro station.

Congress-Hall is surrounded by numerous sights:

- The Trubetskoy's Estate in Khamovniki.
- Clinical Medicine Campus.
- Church of Saint Nicholas in Khamovniki.
- Novodevichy Convent.
- Pogodinskaya house.

PLAN OF FORUM LOCATION



**1** **Congress Venue**  
I.M. Sechenov First Moscow  
State Medical University  
Trubetskaya St., 8, Congress Center

**2** **Medical History Museum**  
I.M. Sechenov First Moscow  
State Medical University  
Bol'shaya Pirogovskaya St., 2 bld. 3

**M** **Metro stations**  
**Frunzenskaya** (Russian: "Фрунзенская")  
**Sportivnaya** (Russian: "Спортивная")

**1** **Hotel Arena Moscow, 2\***  
10-Letiya Oktyabrya St., 11

**1** **Cafe "Moo-Moo" (Russian: "МУ-МУ")**  
Komsomolsky St., 26

**2** **Moscow Palace of Youth (MDM)**  
Burger King  
Starbuks  
McDonalds  
IL Patio  
Zolotaya Vobla cafe  
Komsomolsky St, 28

**3** **"Ogni Areny" cafe**  
10-Letiya Oktyabrya St., 11

**4** **"Golubka" Café**  
Bol'shaya Pirogovskaya St., 53/55

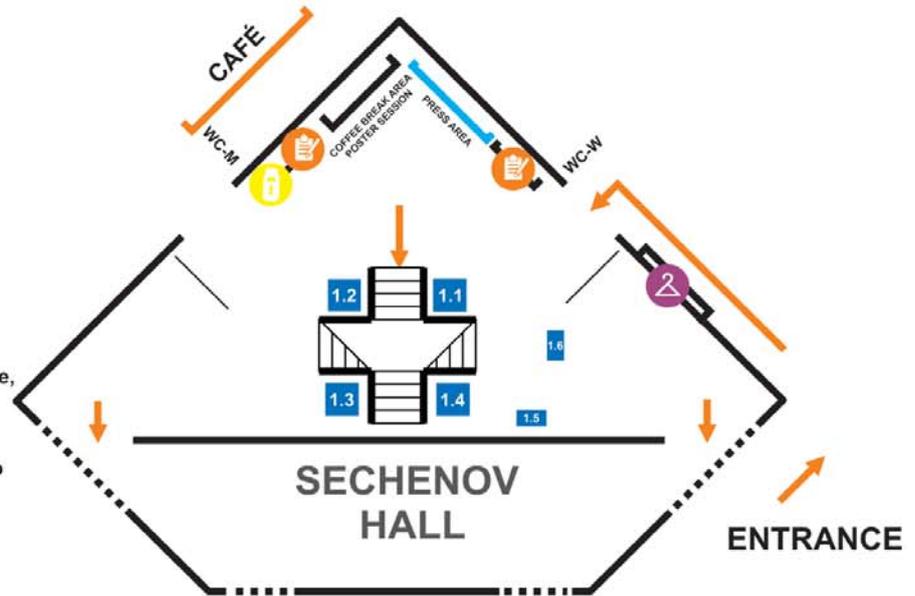
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## VENUE PLAN

### 1 floor

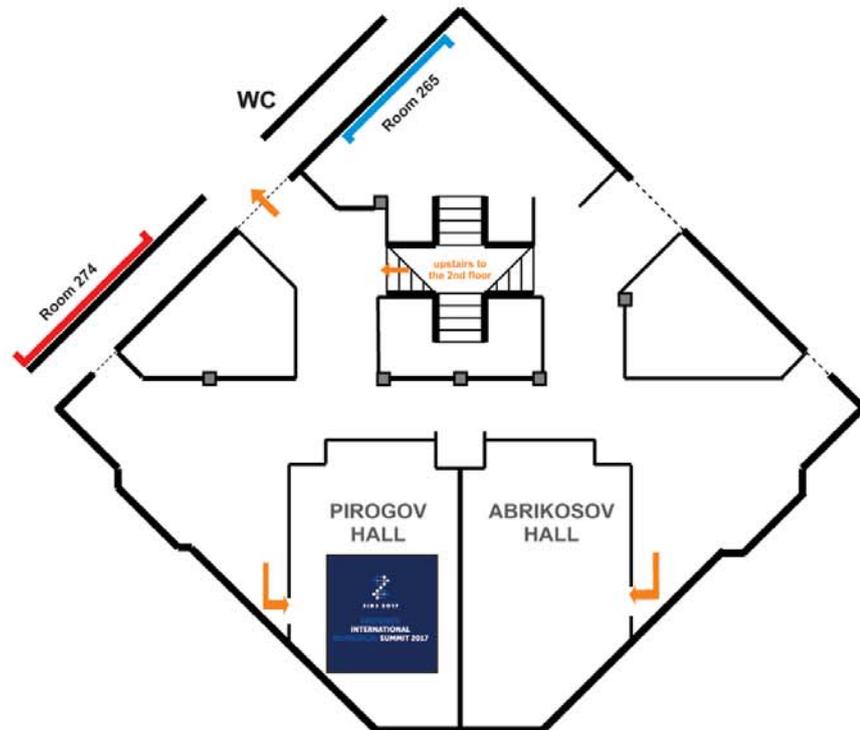
#### EXHIBITORS

- 1.1 - HELICON
- 1.2 - Institute for Regenerative Medicine,  
Sechenov University
- 1.4 - Institute of Molecular Medicine,  
Sechenov University
- 1.5 - GEOTAR-Media, Publishing Group
- 1.6 - BKL Publishers



 REGISTRATION DESK  CLOAK-ROOM  PRESENTATION DESK

### 2 floor



**SECHENOV INTERNATIONAL BIOMEDICAL  
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| <b>16.06.2017 (Friday)</b> |   |
|----------------------------|---|
| <b>9:00-10:00</b>          | <b>Registration</b>   |
| <b>Hall</b>                | <b>Pirogov Hall, 2nd floor</b>  |
| <b>10:00-10:10</b>         | <b>Opening ceremony</b>   |
| <b>10:10-11:30</b>         | <b>Plenary session «Nanotechnology in Oncology»</b>   |
| <b>Chairmen:</b>           | <p><i><b>Avram Hershko</b>, Nobel laureate, Israel</i></p> <p><i><b>Igor Reshetov</b>, academician of RAS, I.M. Sechenov First Moscow State Medical University of the Ministry of Health of the Russian Federation (Sechenov University), Moscow, Russia</i></p> <p><i><b>Yuri Gulyaev</b>, academician of RAS, Institute of Radio-engineering and Electronics of the Russian Academy of Sciences, Moscow, Russia</i></p> |
| <b>10:10-11:00</b>         | <p><b>Fighting Cancer: Time to Win</b></p> <p><i><b>Avram Hershko</b>, Nobel laureate, Israel</i></p>   |
| <b>11:00-11:10</b>         | <p><b>Nanotechnology in oncology: 15 years of the research in Russia, results, and perspectives</b></p> <p><i><b>Igor Reshetov</b>, academician of RAS, I.M. Sechenov First Moscow State Medical University of the Ministry of Health of the Russian Federation (Sechenov University), Moscow, Russia</i></p>   |
| <b>11:10-11:30</b>         | <p><b>Non-X-ray methods of biotissue introscopy</b></p> <p><i><b>Yuri Gulyaev</b>, academician of RAS, Institute of Radio-engineering and Electronics of the Russian Academy of Sciences, Moscow, Russia</i></p>  |
| <b>11:30-12:00</b>         | <b>Coffee Break</b>   |
| <b>12:00-13:30</b>         | <b>Plenary session «Nanotechnology in Oncology»</b>   |
| <b>Hall</b>                | <b>Pirogov Hall, 2nd floor</b>  |
| <b>Chairmen:</b>           | <p><i><b>Igor Reshetov</b>, academician of RAS, I.M. Sechenov First Moscow State Medical University of the Ministry of Health of the Russian Federation (Sechenov University), Moscow, Russia</i></p> <p><i><b>Yuri Gulyaev</b>, academician of RAS, Institute of Radio-engineering and Electronics of the Russian Academy of Sciences, Moscow, Russia</i></p>  |
| <b>12:00-12:15</b>         | <p><b>Molecular-biological predictors for individual prognosis of stomach cancer</b></p> <p><i><b>Marina Nemtsova</b>, professor, I.M. Sechenov First Moscow State Medical University of the Ministry of Health of the Russian Federation (Sechenov University), Moscow, Russia</i></p>   |
| <b>12:15-12:30</b>         | <p><b>Bioengineering models of 3D growth of tumor and mesenchymal stem cells based on biopolymer microspheres and hydrogels</b></p> <p><i><b>Konstantin Shaitan</b>, M.V. Lomonosov Moscow State University, Moscow, Russia</i></p>   |
| <b>12:30-12:45</b>         | <p><b>Hybrid nanoconstructions featuring inclusion of isotopes for diagnosis and treatment of tumors</b></p> <p><i><b>Dmitriy Chuvilin</b>, professor, head of laboratory National Research Center «Kurchatov Institute», Moscow, Russia</i></p>  |

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|                    |   |
|--------------------|---|
| 12:45-13:05        | <b>Tissue optics and nanomedicine</b><br><i>Valery Tuchin, professor, Head of the Department of Optics and Biophotonics,<br/>N.G. Chernyshevsky Saratov University, Saratov, Russia</i>   |
| 13:05-13:20        | <b>Sapphire probes for malignancy diagnosis and surgery</b><br><i>Vladimir Kurlov, head of the Laboratory of shaped crystals, ISSP RAS,<br/>Chernogolovka, Russia</i>   |
| 13:20-13:30        | <b>Discussion</b>   |
| <b>13:30-14:30</b> | <b>Break</b>  |
| <b>14:30-15:30</b> | <b>Plenary session «Nanotechnology in Oncology»</b>   |
| <b>Hall</b>        | <b>Pirogov Hall, 2nd floor</b>  |
| <b>Chairmen:</b>   | <i>Igor Reshetov, academician of RAS, I.M. Sechenov First Moscow State Medical<br/>University of the Ministry of Health of the Russian Federation (Sechenov University),<br/>Moscow, Russia</i><br><i>Yuri Gulyaev, academician of RAS, Institute of Radio-engineering<br/>and Electronics of the Russian Academy of Sciences,<br/>Moscow, Russia</i> |
| 15:00-15:15        | <b>Terahertz dielectric spectroscopy of pigmantary skin nevi <i>in vivo</i></b><br><i>Kirill Zaytsev, PhD in Engineering Sciences, Laboratory of Terahertz Technology,<br/>Research and Educational Center of Photonics, Bauman Moscow State Technical<br/>University (BMSTU), Moscow, Russia</i>   |
| 15:15-15:30        | <b>Possibilities of THz spectroscopy in cancer diagnostics</b><br><i>Olga Cherkasova, professor, Head of the Laboratory of Laser Biophysics,<br/>ILF SB RAS, Institute of Laser Physics SB RAS,<br/>Novosibirsk, Russia</i>   |
| 15:30-15:45        | <b>Colloids in external rotating electric fields: Tunable interactions,<br/>directed self-assembly, prospective applications in biology and medicine</b><br><i>Stanislav Yurchenko, Leading Researcher of the Bauman Moscow<br/>State Technical University, Moscow, Russia</i>  |
| 15:45-16:00        | <b>Discussion</b>   |
| <b>15:30-16:00</b> | <b>Coffee Break</b>   |
| <b>16:00-17:00</b> | <b>Final conclusion</b>   |
| <b>Hall</b>        | <b>Pirogov Hall, 2nd floor</b>  |
| 16:00-16:45        | Awarding of the winners of the contest «SIBS: students perspective»   |
| 16:45-17:00        | Resolution signing  |

**SECHENOV INTERNATIONAL BIOMEDICAL  
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| <b>19.06.2017 (Monday)</b> |   |
|----------------------------|---|
| <b>9:00-10:00</b>          | <b>Registration</b>   |
| <b>Hall</b>                | <b>Pirogov Hall, 2nd floor</b>  |
| <b>10:00-12:00</b>         | <b>Plenary session</b>  |
| <b>Chairmen:</b>           | <p><i><b>Ada E. Yonath</b>, Nobel laureate, Israel</i></p> <p><i><b>Andrei Zamyatnin</b>, Institute of Molecular Medicine, Sechenov First Moscow State Medical University, Moscow, Russia</i></p> <p><i><b>Dmitriy Zorov</b>, Belozersky Institute of Physico-Chemical Biology, Lomonosov Moscow State University, Moscow, Russia</i></p> |
| 10:00-10:10                | <p><b>Welcome speech</b></p> <p><i><b>Andrei Svistunov</b>, professor, vice-rector of the Sechenov University, Moscow, Russia</i></p>   |
| 10:10-11:00                | <p><b>Molecular markers and targets of human diseases</b></p> <p><i><b>Ada E. Yonath</b>, Nobel laureate, Israel</i></p>  |
| 11:00-11:30                | <p><b>Circulating extracellular vesicles as a target for therapy of CNS disease</b></p> <p><i><b>Daniel Anthony</b>, professor, Oxford University, Dept of Pharmacology</i></p>   |
| 11:30-12:00                | <p><b>High-throughput screening for antibacterial compounds inhibiting the ribosome</b></p> <p><i><b>Ilya Osterman</b>, Belozersky Institute of Physico-Chemical Biology, Lomonosov Moscow State University, Russia</i></p>   |
| <b>12:00-12:20</b>         | <b>Coffee Break</b>   |
| <b>12:20-13:30</b>         | <b>Plenary session</b>  |
| <b>Hall</b>                | <b>Pirogov Hall, 2nd floor</b>  |
| <b>Chairmen:</b>           | <p><i><b>Andrei Zamyatnin</b>, Institute of Molecular Medicine, Sechenov First Moscow State Medical University, Moscow, Russia</i></p> <p><i><b>Dmitriy Zorov</b>, Belozersky Institute of Physico-Chemical Biology, Lomonosov Moscow State University, Moscow, Russia</i></p>  |
| 12:20-12:50                | <p><b>Development of enzymatic tools for effective gluten detoxification</b></p> <p><i><b>Andrei Zamyatnin</b>, Institute of Molecular Medicine, Sechenov First Moscow State Medical University, Moscow, Russia</i></p>   |
| 12:50-13:10                | <p><b>Role of MMP14 in gliomagenesis and anti-glioma therapeutics</b></p> <p><i><b>Ilya Ulasov</b>, Center for Advanced Brain Tumor Treatment, Swedish Neuroscience Institute, Seattle, USA</i></p>   |
| 13:10-13:30                | <p><b>B-crystallin a novel biomarker and drug target in Breast Cancer</b></p> <p><i><b>Dmitriy Malin</b>, Department of Medicine, University of Wisconsin Carbone Cancer Center, University of Wisconsin School of Medicine and Public</i></p>  |
| <b>13:30-14:45</b>         | <b>Break. Poster session</b>  |
| <b>14:45-16:45</b>         | <b>Plenary session</b>  |
| <b>Hall</b>                | <b>Pirogov Hall, 2nd floor</b>  |

|                    |   |
|--------------------|---|
| <b>Chairmen:</b>   | <b>Andrei Zamyatnin</b> , <i>Institute of Molecular Medicine, Sechenov First Moscow State Medical University, Moscow, Russia</i><br><b>Dmitriy Zorov</b> , <i>Belozersky Institute of Physico-Chemical Biology, Lomonosov Moscow State University, Moscow, Russia</i>   |
| 14:45-15:15        | <b>Protein acetylation as a pathogenic factors</b><br><b>Dmitriy Zorov</b> , <i>Belozersky Institute of Physico-Chemical Biology, Lomonosov Moscow State University, Moscow, Russia</i>   |
| 15:15-15:35        | <b>New knowledge about chemical-biological interactions as the basis for drug repurposing</b><br><b>Vladimir Poroikov</b> , <i>Institute of Biomedical Chemistry, Moscow, Russia</i>  |
| 15:35-15:55        | <b>Topical administration of mitochondria-targeted antioxidants for treatment of perioperative dry eye: therapeutic efficacy in experimental rabbit model and clinical practice</b><br><b>Ivan Senin</b> , <i>Belozersky Institute of Physico-Chemical Biology, Lomonosov Moscow State University, Moscow, Russia</i> |
| 15:55-16:25        | <b>TRP receptors as molecular targets for treatment of pain and inflammation</b><br><b>Yaroslav Andreev</b> , <i>Institute of Molecular Medicine, Sechenov First Moscow State Medical University, Moscow, Russia</i>  |
| 16:25-16:45        | <b>Noncoding RNA in diagnostics and therapy on gastrointestinal stromal tumours</b><br><b>Irina Bure</b> , <i>Institute of Molecular Medicine, Sechenov First Moscow State Medical University, Moscow, Russia</i>   |
| 16:45-17:00        | <b>Data interpretation system for human gut microbiota analysis – «Knomics-Biota»</b><br><b>Dmitry Alexeev PhD</b> , <i>CEO «Knomics LLC», Skolkovo Innovation Center, Moscow, Russia</i>   |
| <b>17:00-17:30</b> | <b>Coffee Break</b>   |
| <b>17:30-18:00</b> | <b>Final conclusion</b>   |
| <b>Hall</b>        | <b>Pirogov Hall, 2nd floor</b>  |
| 17:30-17:45        | Awarding of the winners of the contest «SIBS: students perspective»   |
| 17:45-18:00        | Resolution signing  |

**SECHENOV INTERNATIONAL BIOMEDICAL  
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| <b>20.06.2017 (Tuesday)</b> |   |
|-----------------------------|---|
| <b>9:00-10:00</b>           | <b>Registration</b>   |
| <b>Hall</b>                 | <b>Pirogov Hall, 2nd floor</b>  |
| <b>10.00-12.40</b>          | <b>Plenary session «Regenerative Medicine»</b>  |
| <b>Chairmen:</b>            | <p><b>James Yoo, M.D., Ph.D.</b>, professor, Deputy Director of the Wake Forest Institute for Regenerative Medicine, NC, USA</p> <p><b>Vsevolod Tkachuk</b>, Director, President of the National Association of Regenerative Medicine, Institute for Regenerative Medicine, Lomonosov Moscow State University, Moscow, Russia</p> <p><b>Andrei Vasiliev, Ph.D.</b>, Doctor of Biological Sciences, Corresponding member of RAS, Professor, Head of the Department of Embryology of Lomonosov State University, Director of the Koltzov Institute of Developmental Biology of Russian Academy of Sciences IDB RAS, Moscow, Russia</p> <p><b>Andrei Vinarov</b>, Professor of the Department of Urology, First Moscow State Medical University. THEM. Sechenova, Moscow, Russia</p> <p><b>Denis Butnaru</b>, Director, Institute for Regenerative Medicine, Sechenov University, Moscow, Russia</p> |
| <b>10:00-10:35</b>          | <p style="text-align: center;"><b>Regenerative Medicine: Advances, Challenges, and Future Perspectives</b></p> <p><b>James Yoo, M.D., Ph.D.</b>, professor, Deputy Director of the Wake Forest Institute for Regenerative Medicine, NC, USA</p>   |
| <b>10:35-11:00</b>          | <p style="text-align: center;"><b>Physiological regulation of regeneration</b></p> <p><b>Vsevolod Tkachuk</b>, Director, President of the National Association of Regenerative Medicine, Institute for Regenerative Medicine, Lomonosov Moscow State University, Moscow, Russia</p>   |
| <b>11:00-11:25</b>          | <p style="text-align: center;"><b>Progress and prospect for cell technologies development</b></p> <p><b>Andrei Vasiliev, Ph.D.</b>, Doctor of Biological Sciences, Corresponding member of RAS, Professor, Head of the Department of Embryology of Lomonosov State University, Director of the Koltzov Institute of Developmental Biology of Russian Academy of Sciences IDB RAS, Moscow, Russia</p>  |
| <b>11:25-11:50</b>          | <p style="text-align: center;"><b>Fluorescence imaging of stem cells differentiation and tissue formation</b></p> <p><b>Elena Zagaynova</b>, Director, Research Institute for Biomedical Technologies, Nizhny Novgorod State Medical Academy, Russia</p>  |
| <b>11:50-12:15</b>          | <p style="text-align: center;"><b>Laser printing of cells</b></p> <p><b>Boris Chichkov</b>, Head of Nanotechnology Department, Laser Zentrum Hannover e.V. (LZH), Hannover, Germany</p>   |
| <b>12:15-12:40</b>          | <p style="text-align: center;"><b>Tissue Engineering in Urethral Reconstruction</b></p> <p><b>Denis Butnaru</b>, Director, Institute for Regenerative Medicine, Sechenov University, Moscow, Russia</p>   |
| <b>12:40-13:40</b>          | <b>Break. Poster session</b>  |
| <b>13:40-15:00</b>          | <b>Plenary session 1 – «Regenerative medicine – 3d-technology»</b>  |
| <b>Hall</b>                 | <b>Pirogov Hall, 2nd floor</b>  |

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|--------------------|--|
| <b>Chairmen:</b>   | <b>Vladimir Mironov</b> , <i>Institute for Regenerative Medicine, Sechenov University, Moscow, Russia. 3d-Bioprinting Solutions, Moscow, Russia</i><br><b>Boris Chichkov</b> , <i>Head of Nanotechnology Department, Laser Zentrum Hannover e.V. (LZH), Hannover, Germany</i>  |
| 13:40-14:00        | <b>Organ printing</b><br><b>Vladimir Mironov</b> , <i>Institute for Regenerative Medicine, Sechenov University, Moscow, Russia. 3d-Bioprinting Solutions, Moscow, Russia</i>   |
| 14:00-14:20        | <b>Progress in 3D cultivation for the creation of innovative bioengineering structures</b><br><b>Irina Saburina</b> , <i>Head of the Laboratory of cell biology and developmental pathology, Institute of General Pathology and Pathophysiology, Russia</i>  |
| 14:20-14:40        | <b>3D Tissue Engineered Constructs for Treatment of Spinal Cord Injury</b><br><b>Vladimir Baklaushev</b> , <i>Chief Scientific Officer Federal Research and Clinical Center, FMBA of Russia</i>  |
| 14:40-15:00        | <b>Laser additive technologies for regenerative medicine</b><br><b>Peter Timashev</b> , <i>Head of the Department of Advanced Biomaterials of the Institute for Regenerative Medicine Sechenov University, Institute of Photonic Technologies, Research center «Crystallography and Photonics», RAS, Russia</i>  |
| <b>15:00-15:30</b> | <b>Coffee Break</b>  |
| <b>15:30-17:00</b> | <b>Plenary session 2 – «Regenerative medicine: cells, biomaterials, bioethics»</b>   |
| <b>Hall</b>        | <b>Pirogov Hall, 2nd floor</b>   |
| <b>Chairmen:</b>   | <b>Yuri Rochev</b> , <i>Chief Scientist, Department of Advanced Biomaterials of the Institute for Regenerative Medicine Sechenov University; Principal Investigator, Centre for Research in Medical Devices (CURAM), National University of Ireland, Galway</i><br><b>Irina Saburina</b> , <i>Head of the Laboratory of cell biology and developmental pathology, Institute of General Pathology and Pathophysiology, Russia</i> |
| 15:30-15:50        | <b>Molecular design of smart biomaterials</b><br><b>Yuri Rochev</b> , <i>Chief Scientist, Department of Advanced Biomaterials of the Institute for Regenerative Medicine Sechenov University; Principal Investigator, Centre for Research in Medical Devices (CURAM), National University of Ireland, Galway</i>   |
| 15:50-16:10        | <b>New stem cell niche, responsible for longitudinal bone growth</b><br><b>Andrei Chagin</b> , <i>Associate Professor, Institute for Regenerative Medicine, Sechenov University, Moscow, Russia; Karolinska Institute, Stockholm, Sweden</i>   |
| 16:10-16:30        | <b>Biotech tools for skin recovery</b><br><b>Alexander Melerzanov</b> , <i>MD PhD, Dean of Department of Biological and medical Physics MIPT, Director of science, Biopharmcluster «Nothorn», Dolgoprudny, Russia</i>  |
| 16:30-16:50        | <b>Regenerative medicine: regulatory and ethical issues</b><br><b>Irina Nadelyaeva</b> , <i>Deputy Chief Medical Officer of the Central Clinical Hospital with Outpatient Health Center of Business Administration for the President of Russian Federation, Russia</i>   |
| 16:50-17:10        | <b>Legal risks handling biomedical cell products in the Russian Federation</b><br><b>Alexander Mokhov</b> , <i>i. Kutafin Moscow State Law University (MSAL) doctor of law, professor Department of business and corporate law, Russia</i>   |

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| <b>17:10-17:30</b>                      | <b>Coffee Break</b>  |
| <b>17:30-18:30</b>                      | <b>Final conclusion</b>  |
| <b>Hall</b>                             | <b>Pirogov Hall, 2nd floor</b>   |
| 17:30-17:35                             | Awarding of the winners of the contest «SIBS: students perspective»  |
| 17:35-18:20                             | Round table:<br>«Topical issues of development and introduction of cellular technologies»  |
| <b>Moderator:</b>                       | <b>Andrei Vinarov</b> , <i>Professor of the Department of Urology, First Moscow State Medical University. THEM. Sechenova, Moscow, Russia</i>  |
| <b>Participants of the round table:</b> | <p style="text-align: center;"><b>James Yoo</b>, <i>M.D., Ph.D., professor, Deputy Director of the Wake Forest Institute for Regenerative Medicine, NC, USA</i></p> <p style="text-align: center;"><b>Vsevolod Tkachuk</b>, <i>Director, President of the National Association of Regenerative Medicine, Institute for Regenerative Medicine, Lomonosov Moscow State University, Moscow, Russia</i></p> <p style="text-align: center;"><b>Andrei Vasiliev</b>, <i>Ph.D., Doctor of Biological Sciences, Corresponding member of RAS, Professor, Head of the Department of Embryology of Lomonosov State University, Director of the Koltzov Institute of Developmental Biology of Russian Academy of Sciences IDB RAS, Moscow, Russia</i></p> <p style="text-align: center;"><b>Irina Nadelyaeva</b>, <i>Deputy Chief Medical Officer of the Central Clinical Hospital with Outpatient Health Center of Business Administration for the President of Russian Federation, Russia</i></p> <p style="text-align: center;"><b>Denis Butnaru</b>, <i>Director, Institute for Regenerative Medicine, Sechenov University, Moscow, Russia</i></p> <p style="text-align: center;"><b>Vadim Merkulov</b>, <i>MD, PhD, Professor, Deputy Director of the Federal State Budgetary Institution «Scientific Center for Expert Evaluation of Medicinal Products» of the Ministry of Health of the Russian Federation, Russia</i></p> |
| 18:20-18:30                             | Resolution signing   |

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E-mail: [geramail@rambler.ru](mailto:geramail@rambler.ru)

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The department prepare specialists and trained every of them within the framework of the Federal State Educational Standard of Higher Professional Education by specialty «Clinical Medicine» N060101 and ensures the mastering of knowledge so as additional competencies in information and Internet technologies in accordance with the types of professional activity and professional tasks and The Standard.

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- to use the mathematical methods of processing medical statistical data, applying mathematical methods for supporting of making the medical decisions,
- know the basics of e-health in the Russian Federation, the procedure for providing medical services using telemedicine technologies, the procedure for acquiring and operating information systems, and the opportunities of using Internet technologies in healthcare.

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#### **Institute of Molecular Medicine, Sechenov First State Moscow Medical University (Sechenov University)**

Trubetskaya 8, Moscow, 119991, Russia  
Tel.: +7 (495) 609-14-00  
Fax.: +7 (495) 609-14-00  
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**Institute for Regenerative Medicine,  
Sechenov First State Moscow Medical University  
(Sechenov University)**

Trubetskaya str., 8, Moscow, Russia

Tel.: +7 (916) 777-32-31

E-mail: butnaru\_dv@mail.ru

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