



October 2021

OPENBIO - IS AN INDUSTRY-SPECIFIC COMPLEX OF EVENTS

research | innovation
business development in the field of
life science



05-07.10 - science conference



08.10 - business forum



05-08.10 - exhibition



05-08.10 - artscience| children's science



05

OCTOBER

OPENBIO-2021

SCIENTIFIC CONFERENCE | BUSINESS FORUM | EXPOSITION

08:30 Accreditation of the scientific conference participants in "Virology" and "Biophysics" sections

09:00 Opening ceremony of the Scientific Conference for young scientists. Opening speech

Conference hall №1 "Big"

Conference hall №2 "Green Moss"

WORK OF THE VIROLOGY (+ BIOINFORMATICS) SECTION

9:20 - 10:20

Overview lecture

M.I. Mikhailov - Doctor of Medical Sciences, Professor, Corresponding Member of the RAS, Head of the Laboratory of Viral Hepatitis at the Mechnikov Research Institute for Vaccines and Sera; Scientific Advisor of the Institute of Molecular and Personalized Medicine of the Russian Medical Academy of Continuous Professional Education (Moscow)

"Viral hepatitis in the USSR and Russia: history of the issue, evolution of diagnostics, prevention and treatment"

10:20 – 11:30 Reports of the "Virology" section participants

11:30 - 11:50 **Coffee break**

11:50 - 12:40 Reports of the "Virology" section participants

12:40 – 13:00 A. I. Bogomolov, Beckman Coulter Life Sciences. Application of acoustic dosing technology to increase the productivity of whole genome sequencing and genotyping of SARS-CoV-2

13:00 - 13:50 Poster session of the "Virology" section (hall)

13:50 – 14:00 Summing up the results of the "Virology" section

14:00 – 14:30 **Lunch**

10:00-11:30

COVID PERIOD CHALLENGES

Violations and threats prevention in pharmaceutical and medical activities

13:20-14:00

T. Yu. Zeleneva, GREENVAN Scale-X bioreactors. Latest solutions from Univercells Technology (with the demo equipment)

9:00-18:00
Open space
2nd floor

INDUSTRY
EXPOSITION

05

OCTOBER

OPENBIO-2021

SCIENTIFIC CONFERENCE | BUSINESS FORUM | EXPOSITION

Conference hall №1 "Big"

WORK OF THE BIOPHYSICS (+ BIOINFORMATICS) SECTION

14:30 - 15:30

Overview lecture

O.S. Ostroumova - Doctor of Biological Sciences, Associate Professor, Deputy Head for Research Work, Head of the Laboratory for Membranes Modeling and Ion Channels of the Institute of Cytology of the RAS (St. Petersburg)

“Heads... Collars...? The key point is tails! The role of membrane lipids in the regulation of ion channels: new strategies for the pharmaceuticals development”

15:30 – 16:40

Reports of the "Biophysics" section participants

16:40 - 17:00 **Coffee break**

17:00 - 17:40

Reports of the "Biophysics" section participants

17:40 - 18:00

Conference partner report

18:00 - 18:50

Poster session of the "Biophysics" section

18:50 – 19:00

Summing up the results of the "Biophysics" section

Conference hall №2 "Green Moss"

14:30 - 17:30

Panel discussion

PROSPECTS FOR
COMBATING SARS-CoV-2
PANDEMIC

Dialogue between developers of Russian COVID-19 vaccines

Vaccines and vaccinations against COVID-19 and other acute respiratory viral infections

Diagnosis of SARS-CoV-2 status, and predictive markers of COVID-19 disease severity

9:00-18:00
Open space
2nd floor

INDUSTRY
EXPOSITION

06

OCTOBER

OPENBIO-2021

SCIENTIFIC CONFERENCE | BUSINESS FORUM | EXPOSITION

Conference hall №1 "Big"

Conference hall №2 "Green Moss"

WORK OF THE BIOTECHNOLOGY (+ BIOINFORMATICS) SECTION

09:00 Accreditation of the "Biotechnology" section participants

9:20 - 10:20

Overview lecture

A.V. Karabelsky - Candidate of Biological Sciences, Scientific Advisor of the "Gene therapy" department, Sirius University (Sochi)

"Gene therapy methods and technologies"

10:20 – 11:00 Reports of the "Biotechnology" section participants

11:00 - 11:20 Coffee break

11:20 – 11:40

Anikin G., Helicon

Analysis of viral genomes on the MGI platform. Available solutions for SARS-CoV-2 research.

11:40 – 13:00 Reports of the "Biotechnology" section participants

13:00 - 13:30 Обед

13:30 – 13:50

K.E. Yakovleva, Dia-m

Five reasons to switch from shake flask culture to bioreactor culture

13:50 – 15:30 Reports of the "Biotechnology" section participants

15:30 - 15:50 Кофе-брейк

15:50 – 16:20 Reports of the "Biotechnology" section participants

16:20 – 16:40 Cytiva company report

16:40 – 17:00 Reports of the "Biotechnology" section participants

17:00 – 17:50 Poster session of the "Biotechnology" section

17:50 – 18:00 Summing up the results of the "Biotechnology" section

10:20-10:50

Brittal D.I., JRS Pharma

The evolution of tableting cellulose – from powdered cellulose to highly functional additive agents

11:00 – 17:00

Open dialogue

HIV IN RUSSIA:

**LATEST DEVELOPMENTS AND PROBLEMS OF
MEDICINES AND MEDICAL DEVICES
CIRCULATION**

9:00-18:00
Open space
2nd floor

**INDUSTRY
EXPOSITION**

07

OCTOBER

OPENBIO-2021

SCIENTIFIC CONFERENCE | BUSINESS FORUM | EXPOSITION

Conference hall №1 "Big"

WORK OF THE MOLECULAR BIOLOGY (+ BIOINFORMATICS) SECTION**09:00** Accreditation of the "Molecular biology" section participants**9:20 - 10:20 10:20 Overview lecture**

L.F. Gulyaeva - Doctor of Biological Sciences, Professor, Head of the Laboratory of Molecular Mechanisms of Carcinogenesis of the Federal Research Center "Fundamental and Translational Medicine", Head of the Clinical Biochemistry Department of the Institute of Medicine and Psychology of the Federal State Autonomous Educational Institution of Higher Education "Novosibirsk National Research State University" (Novosibirsk)

*"MicroRNA as a tool for the search for new carcinogenesis markers"***10:20 – 11:00** Reports of the "Molecular biology" section participants**11:00 - 11:20 Coffee break****11:50 - 12:40**

V.S. Timoshin, Azimuth Photonics STEDYCON – Ultra High Resolution Microscope for STED and Confocal Microscopy

10:20 – 11:00 Reports of the "Molecular biology" section participants**13:00 - 13:30 Lunch****13:30 – 14:10** Reports of the "Molecular biology" section participants**14:10 – 14:20** Interlab service report**14:20 – 15:30** Reports of the "Molecular biology" section participants**15:30 - 15:50 Coffee break****15:50 – 16:10** Simone Lepper, Nikon

Artificial Intelligence for microscopists: Nikon NIS.ai

16:10 – 17:40 Reports of the "Molecular biology" section participants**17:40 – 18:30** Poster session of the "Molecular biology" section**18:30 – 18:40** Summing up the results of the "Biotechnology" section

Conference hall №2 "Green Moss"

08:45-15:20

Academic symposium

**VIROME OF THE RUSSIAN
FEDERATION:
DISCOVERY OF NEW VIRUSES**
9:00-18:00
Open space
2nd floor

**INDUSTRY
EXPOSITION**
15:30-15:45

Weiss-technik, Development of vaccines using plants and artificial climate technologies.

16:00-18:00

Panel discussion

A DEAL WITH THE INTELLIGENCE
Creation, registration, management, and interaction with research institutes

08

OCTOBER

OPENBIO-2021

SCIENTIFIC CONFERENCE | BUSINESS FORUM | EXPOSITION

09:00 Registration. Welcoming coffee

09:30 Opening ceremony of the Forum part of the Open Communications Platform OpenBio-2021 (atrium, 1st floor)

Conference hall №1 "Big"

Conference hall №2 "Green Moss"

10:00 – 11:50

Expert session

LIFE TECHNOLOGIES

Session 1: Life extension and active longevity. Trends Overview

Session 2: Big Data, AI, AR, VR in matters of life extension

11:50 - 12:10 Coffee break

12:10 - 14:00

Expert session

LIFE TECHNOLOGIES

Session 3: Longevity therapies. Genetics. Epigenetics, Senolytics

14:00 - 14:30

10:00 – 12:30

Plenary meeting

OPEN MEGASCIENCE: SUPER COMPUTERS AND GENERATORS OF BIG SCIENTIFIC DATA - SKIF AND CENTER FOR GENETIC TECHNOLOGIES

Research infrastructure for business
- Genomic centers
- Supercomputers
- Synchrotron research

12:40 – 14:30

Экспертная дискуссия

BIO-FOOD-TECH: DISH OF THE FUTURE

Key technological trends in the food industry. Connecting the natural resource base and innovative technologies. Investment attractiveness and legal barriers.

14:00 – 14:30 Coffee break

9:00-18:00
Open space
2nd floor

INDUSTRY
EXPOSITION

08

OCTOBER

OPENBIO-2021

SCIENTIFIC CONFERENCE | BUSINESS FORUM | EXPOSITION

Conference hall №1 "Big"

14:30 – 16:30

Expert session

LIFE TECHNOLOGIES

Session 4: Microbiota. Long-liver's intestine

16:30 - 16:50 Coffee break

16:50 – 18:15

Session 3: Brain health

Conference hall №2 "Green Moss"

15:00 - 16:00

Specialized discussion

Reducing risks in the prevention and treatment of non-contagious diseases – a factor of increasing the life quality and duration

16:00-18:00

Round table

**COMMERCIALIZATION OF INNOVATIONS
DEVELOPMENT OF SCIENTIFIC AND EDUCATIONAL CENTERS**

9:00-18:00
Open space
2nd floor

**INDUSTRY
EXPOSITION**

18:15

Closing ceremony of the 8th OpenBio Open Communications Platform (atrium, 1st floor)
Awarding the scientific conference winners
OpenBio-2021 Completion Reception
Concert program

Excursion program:

infrastructural capabilities of the science and technology park in the sphere of biotechnology and biopharmaceuticals
[additional registration, groups during the day]