



*Eugeny I. Shwartz Association of Specialists in the Fields of
Molecular Medicine, Medical and Laboratory Genetics*

**International conference:
Molecular and metabolic basis
of various clinical
manifestations and personalized treatment of COVID-19
under the framework of**

**VI Russian Congress with International Participation
MOLECULAR BASIS OF CLINICAL MEDICINE:
STATE-OF-THE-ART AND PERSPECTIVES**

7 – 10 July 2021
Saint-Petersburg, Russian Federation

The conference is to be held in mixed mode (offline and online)

OFFICIAL ORGANIZERS

- Association of Specialists in the Field of Molecular Medicine, Laboratory and Medical Genetics named after Eugeny I. Schwartz
- Academy of Molecular Medicine
- Association for the promotion of business relations «China Business Center»

WITH PARTICIPATION

- Russian Society of Medical Genetics
- Russian Association for the Advancement of Science
- St. Petersburg Association of Scientists and Scholars (SPASS)
- St. Petersburg Association of Neurologists
- Northwestern State Medical University n.a. I.I. Mechnikov
- St. Petersburg State Pediatric University
- First St. Petersburg State Medical University n.a. I.P. Pavlov
- Institute of Experimental Medicine
- St. Petersburg State University of Economics (UNECON)
- Tomsk National Research Medical Center of the Russian Academy of Sciences

WITH SUPPORT

- Russian Academy of Sciences
- Ministry of Health of the Russian Federation
- Committees for Public Health of St. Petersburg and Leningrad Oblast Administrations
- Committee for External Relations of Saint Petersburg Administration
- Committee for Science and Higher Education of St. Petersburg Administration
- Business Council of Shanghai Cooperation Organization

INFORMATION PARTNERS

- Academy of Molecular Medicine
- Fund of International Innovation Programs

Contacts: Tatiana B. Urzhumtseva, Head of International Committee of Eugene I.Schwartz Association, Deputy Director of Association China Business Center, Director of Research Center for China and Pacific Rim Region, St. Petersburg State University of Economics (UNECON),
email: molmed.spb@gmail.com +7(921)6339157

PRELIMINARY PROGRAM

Date	Time	Program	Platform
07.07.21	10:00-10:30	Opening ceremony of the Conference (simultaneous interpretation: Russian and English)	FSBSI « D.O.Ott The Research Institute of Obstetrics, Gynecology and Reproductology» Zoom platform
	10:30-14:00	International Symposium (simultaneous interpretation: Russian and English) Presentations by scientists from Russia, Japan, South Korea, Vietnam, Thailand	
	14:00-15:00	Lunch break	
	15:00-18:00	Plenary session (simultaneous interpretation: Russian and English) «Genetic passport» - key to understanding the different course of infectious and non-infectious diseases and their complications	
08.07.21	9:00-13:00	VI Russian-Chinese Medicine Forum with support of «China Business Center» Association (simultaneous interpretation: Russian and Chinese)	UNECON China library Zoom platform
	13:00-14:00	Lunch break	
	14:00-18:00	Conference session	
09.07.21	9:00-13:00	Conference session	UNECON China library Zoom platform
	13:00-14:00	Lunch break	
	14:00-18:00	Conference session	
10.07.21	9:00-13:00	Plenary session – Conference closing	UNECON China library Zoom platform
	13:00-14:00	Lunch break	
	14:00-17:00	Symposium/Conference session	

MAIN TOPICS OF THE CONFERENCE:

- «Genetic passport» - key to understanding the different course of infectious and non-infectious diseases and their complications

- Biological diversity of coronaviruses
- Novel coronavirus infection COVID-19
- SARS-CoV-2 genome organization
- Molecular, genetic and population mechanisms for realizing the pandemic potential of SARS-CoV-2
- Pathogenesis of COVID-19
- Rare diseases as a key to understanding the pathogenesis of COVID-19 (Hamen-Rich syndrome, pulmonary fibrosis, thalassemia, porphyria)
- COVID-19 in patients with molecular genetic markers of atherosclerosis and associated diseases and risk factors (diabetes mellitus, arterial hypertension, obesity, etc.)
- Molecular and metabolic markers of severe course and complications of COVID-19 in patients with impaired lipid metabolism
- Features of the clinical course of COVID-19 and the dynamics of laboratory parameters in patients with iron deficiency
- COVID-19 in patients with cancer
- SARS-CoV-2 coronavirus infection in children
- Main treatment strategies for COVID-19
- Gut microbiota and COVID-19
- Rehabilitation of patients with COVID-19
- Vaccine prevention of COVID-19
- Modern molecular genetic sequencing methods for SARS-CoV-2
- Laboratory methods for the detection of metabolic and molecular markers of the severe course of COVID-19
- Economic aspects of implementing algorithms for diagnosing COVID-19 and its complications in patients with various diseases
- Biobanks and epidemiological registries of COVID-19 patients as a tool for personalized treatment and prevention. Legal aspects
- Standardization of molecular diagnostics methods and quality management, achievements and problems
- Digital support for epidemic prevention and control
- Isolation, diagnosis, treatment, protective measures and rehabilitation