

December 1–2, 2020

# FIRST MOLECULAR ALLERGOLOGY CONGRESS

Online

The event is dedicated to the development of new strategies for the allergic diseases diagnosis, treatment and prevention. The Congress is of great importance for the progress in the diagnosis and treatment of allergies and includes new information on COVID-19.

The event will take place within the framework of the Megagrant (Resolution No. 220 and Agreement 14.W03.31.0024) and with the support of the FSBI NRC “Institute of Immunology” FMBA of Russia and of the Non-profit public organization Russian Association of Allergology and Clinical Immunology (RAACI).

REGISTRATION

## HONORARY CHAIRMAN



### **Rakhim Khaitov**

M.D., Professor, RAS Academician, Scientific Director of the NRC Institute of Immunology FMBA of Russia, Chief External Expert, Allergologist-Immunologist of the Ministry of Health of the Russian Federation, President of the RAACI

## CO-CHAIRMEN



### **Musa Khaitov**

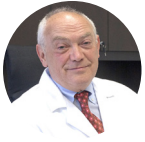
M.D., Professor, RAS Corresponding member, Director of the NRC Institute of Immunology FMBA of Russia



### **Rudolf Valenta**

Professor of the Medical University of Vienna, Leading Scientist of the NRC Institute of Immunology FMBA of Russia

## LEADING SPEAKERS



### **Alexander Rumyantsev**

M.D., Professor, RAS Academician, President of the Dmitry Rogachev National Medical Research Center of Pediatric Hematology, Oncology and Immunology, Chairman of the Board of the National Association of Experts in the Field of Primary Immunodeficiencies (NAEPID) (Russia)



### **Natalya Ilyina**

M.D., Professor, Deputy Director for Clinical Work, Chief Physician of the NRC Institute of Immunology FMBA of Russia, Professor at the Department of Immunology, Russian State Medical University (Russia)



### **Marc Rothenberg**

Professor of Pediatrics, Professor at the Department of Allergy and Immunology, Cincinnati Children's Hospital Medical Center (USA)



### **Ruby Pawankar**

Professor at the Department of Allergy at the Faculty of Pediatrics, Nippon School of Medicine, Tokyo (Japan)



### **Nikos Papadopoulos**

Professor at the University of Manchester (UK)



### **Christopher Chang**

Professor of Medicine at Davis University of California (USA)



### **Hans-Uwe Simon**

Professor of Pharmacology and Director of the Department of Pharmacology, University of Bern (Switzerland)



### **Kenji Izuhara**

Professor at the Department of Medical Biochemistry, Department of Biomolecular Sciences, Saga School of Medicine (Japan)



### **Erika von Mutius**

Professor at the Ludwig and Maximilian University of Munich (Germany)



### **Paolo Marticardi**

Professor at the Charite Medical University of Berlin (Germany)



### **Mohamed Shamji**

Professor at Imperial College London (UK)



**Judith Klein-Seetharaman**

Assistant Professor (A.P.) of Chemistry, Director of the Biological Sciences and Engineering Program at the Colorado School of Mines (USA)



**Fu-Tong Liu**

M.D., Vice President of Sinika Academy (Taiwan)



**Theodore Jardetzky**

Professor at the Department of Structural Biology, Stanford University (USA)

# December 1

## 1<sup>st</sup> hall

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09:00– 09:30 a.m.	<b>Welcoming address</b> R.M. Khaitov, RAS Academician; A.G. Rumyantsev, RAS Academician; A.V. Karaulov, RAS Academician; M.R. Khaitov, RAS Corresponding member; A.A. Kostin, RAS Corresponding member; Professor R. Valenta; Professor N.I. Ilyina
<b>9:30– 11:30 a.m.</b>	<b>PLENARY SESSION #1</b> <b>Allergies and Infections</b> <i>Moderators: A.V. Karaulov, RAS Academician, M.R. Khaitov, RAS Corresponding member, Professor R. Valenta</i>
09:30– 10:00 a.m.	<b>M.R. Khaitov.</b> The Development of a Novel Recombinant Vaccine against Birch Pollen and cross-reactive Allergens
10:00– 10:30 a.m.	<b>R. Valenta.</b> COVID-19: From Antibody Responses in Sera from Convalescent Patients to Vaccines
10:30– 11:00 a.m.	<b>M. Rothenberg.</b> Identification and Scientific Dissection of the New Food Allergy Disease Eosinophilic Esophagitis
11:00– 11:30 a.m.	<b>R. Pawankar.</b> COVID-19 – immune mechanisms, cytokine storm and allergies
11:30– 11:45 a.m.	DISCUSSION
<b>11:45 a.m.– 1:15 p.m.</b>	<b>SYMPOSIUM</b> <b>Modern Initiatives in Immunological Diagnosis of Infectious Pathology</b> <i>Moderators: A.G. Rumyantsev, RAS Academician, M.R. Khaitov, RAS Corresponding member, Professor T.V. Latysheva</i>  <b>I.A. Vasilyeva.</b> Topical Issues of Tuberculosis during the COVID-19 Pandemic  <b>I.G. Kozlov.</b> Laboratory Tests for the COVID-19 Diagnosis: Molecular and Serological Biomarkers of Infection  <b>D.A. Poteryaev.</b> Possibilities of Assessing T-Cell Immunity in Infectious Pathology. Practical Case  <b>A.P. Prodeus.</b> Immunity and Infectious Pathology
<b>1:15– 2:15 p.m.</b>	<b>SATELLITE SYMPOSIUM</b> <b>Novelty in the treatment of T2-mediated diseases</b> <i>Moderators: Professor N.M. Nenasheva, Professor O. M. Kurbacheva</i>  <b>N.M. Nenasheva.</b> Long-Term Efficacy and Safety of Biological Therapy for Bronchial Asthma  <b>E.S. Fedenko.</b> Do We Know Everything About Atopic Dermatitis Control?  <b>O. M. Kurbacheva.</b> The Future has Arrived: a Revolution in the Chronic Polyposis Rhinosinusitis Treatment  <i>Symposium supported by Sanofi, Continuous Medical Education points are not awarded.</i>

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2:15– 3:45 p.m.	<b>PLENARY SESSION # 2</b> <b>Allergies and Autoimmune Diseases. What's new?</b> <i>Moderators: Professor E.S. Fedenko, O.G. Elisyutina, M.D.</i>
2:15– 2:45 p.m.	<b>N. Papadopoulos.</b> Microbial Imbalance in Asthma
2:45– 3:15 p.m.	<b>R. Valenta.</b> Short Update on Diagnostics, Treatment and Prevention of Cow's Milk Allergy
3:15– 3:45 p.m.	<b>Ch. Chang.</b> Autoantibodies in Autoimmune Diseases: What, Why and When?
3:45– 4:00 p.m.	DISCUSSION
4:00– 4:15 p.m.	BREAK
4:15– 5:55 p.m.	<b>SYMPOSIUM</b> <b>MODERN APPROACHES TO THE ALLERGIC DISEASES TREATMENT</b> <i>Moderators: Professor O. M. Kurbacheva, Professor N.M. Nenasheva</i>
4:15– 4:55 p.m.	<b>N.M. Nenasheva.</b> House Dust Mite Allergy: Treat it Cannot be Delayed! <i>Report supported by Stallergenes. Continuous Medical Education points are not awarded.</i>
	<b>O. M. Kurbacheva.</b> Allergic Diseases Personalized Therapy: Choosing the Best <i>Report supported by Stallergenes. Continuous Medical Education points are not awarded.</i>
4:55– 5:35 p.m.	<b>O.G. Elisyutina.</b> The Importance of Molecular Allergy Diagnostics in the Management of Patients with Atopic Dermatitis <i>Report supported by UCB. Continuous Medical Education points are not awarded.</i>
	<b>N.M. Nenasheva.</b> Chronic Spontaneous Urticaria: Molecular Basis of Pathogenesis and Therapy <i>Report supported by UCB. Continuous Medical Education points are not awarded.</i>
5:35– 5:55 p.m.	<b>K. Yurenko.</b> Allergy Study. Multiplex xMAP Technology <i>Report supported by Merck. Continuous Medical Education points are not awarded.</i>
5:55– 6:10 p.m.	DISCUSSION, SUMMING UP THE DAY

## 2<sup>nd</sup> hall

2.40– 4.00 p.m.	<b>SYMPOSIUM</b> <b>Innovative Developments in the Allergic and Infectious Diseases Treatment</b> <i>Moderators: Professor N.M. Nenasheva, V.V. Smirnov, Ph.D.</i>
2:40– 3:00 p.m.	<b>V.V. Smirnov.</b> Fulleran – Fullerene C60 Cream Based: Results and Prospects for Practical Application <i>Report supported by C60Bio, Continuous Medical Education points are not awarded.</i>
3.00– 3.40 p.m.	<b>N.M. Nenasheva.</b> The First Russian Genetically Engineered Biological Drug for the Treatment of Bronchial Asthma <i>Report supported by Generium, Continuous Medical Education points are not awarded.</i>
3.40– 4.00 p.m.	<b>T. Fedoskova.</b> Repeated respiratory infections in children. Patient management <i>Report supported by Peptek. Continuous Medical Education points are not awarded.</i>



## 3<sup>rd</sup> hall

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11:15 a.m.– 6:00 p.m.	<b>SYMPOSIUM</b> <b>Flow Cytometry in Clinical Immunology</b> <i>Moderators: Professor A.V. Zurochka, M.V. Paschenkov, M.D.</i>
11:15– 11:50 a.m.	<b>S.V. Khaidukov.</b> Lymphocytes Assessment Standardized Technology
11:50– 12:25 a.m.	<b>A.V. Zurochka.</b> Immune Status. Principles of Immunograms Using
12:25 a.m.– 1:00 p.m.	<b>S.V. Khaidukov.</b> T-lymphocytes, Assessment, Characterization and Clinical Significance.
1:00– 1:30 p.m.	DISCUSSION
1:30– 1:45 p.m.	BREAK
1:45– 2:20 p.m.	<b>I. V. Kudryavtsev.</b> B-lymphocytes, Assessment, Characterization and Clinical Significance
2:20– 2:55 p.m.	<b>A.V. Zurochka.</b> Immunograms Interpretation, Clinical Applications
2:55– 3:30 p.m.	<b>N.M. Kalinina.</b> Immunological Testing Application to Assess the Immunocorrective Therapy Effectiveness (Clinical Examples)
3:30– 3:45 p.m.	DISCUSSION
3:45– 3:55 p.m.	BREAK
3:55– 4:30 p.m.	<b>S.V. Khaidukov.</b> Natural Killer Cells, Assessment, Characterization and Clinical Significance
4:30– 5:05 p.m.	<b>N.V. Bychkova.</b> Basophils, Assessment, Characterization and Clinical Significance
5:05– 5:40 p.m.	<b>I. V. Kudryavtsev.</b> Phagocytic Reactions Assessment by Flow Cytometry Methods, Clinical Application
5:40– 6:00 p.m.	DISCUSSION

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# December 2

## 1<sup>st</sup> hall

9:30– 12:00 a.m.	<b>PLENARY SESSION # 3</b> <b>Cellular and Molecular Mechanisms of Immune-Mediated Diseases Development. New Horizons</b> <i>Moderators: M.R. Khaitov, RAS Corresponding member, Professor N.I. Ilyina</i>
09:30– 10:00 a.m.	<b>Simon Hans-Uwe.</b> Eosinophil Effector Functions are Regulated by Autophagy
10:00– 10:30 a.m.	<b>K. Izuhara.</b> Periostin: From a Key Mediator in Inflammation to a Promising Biomarker for Inflammation
10:30– 11:00 a.m.	<b>E. von Mutius.</b> Protection from Asthma and Allergies in Traditional Rural Environments
11:00– 11:30 a.m.	<b>P. Matricardi.</b> Molecular Diagnosis for Allergen Immunotherapy
11:30– 12:00 a.m.	<b>M. Shamji.</b> Novel advances in mechanisms of allergen immunotherapy
12:00– 12:15 a.m.	DISCUSSION
12:15– 12:30 a.m.	BREAK
12:30 a.m.– 1:30 p.m.	<b>ASTRAZENECA SATELLITE SYMPOSIUM</b> <b>New Solutions in the Bronchial Asthma Treatment of Any Severity in 2020</b> <i>Moderators: Professor N.I. Ilyina, Professor O.M. Kurbacheva</i>  <b>N.M. Nenasheva.</b> A New Concept for any Severity Bronchial Asthma Treatment  <b>O.M. Kurbacheva.</b> Treatment of Severe Eosinophilic Bronchial Asthma with Genetically Engineered Biologic Drugs through the Clinical Practice Prism  <i>Symposium supported by AstraZeneca, Continuous Medical Education points are not awarded.</i>
1:30– 3:30 p.m.	<b>SYMPOSIUM</b> <b>Personalized Immunotherapy</b> <i>Moderators: Professor N.M. Nenasheva, N.V. Shartanova, M.D.</i>
1:30– 2:10 p.m.	<b>V.V. Smirnov.</b> Modern Approaches to the Allergen Preparations Standardization <i>Report supported by Microgen, Continuous Medical Education points are not awarded.</i>
2:10– 3:10 p.m.	<b>N.M. Nenasheva.</b> New Possibilities of Allergic Rhinitis and Bronchial Asthma Anti-IgE Therapy <i>Report supported by Novartis, Continuous Medical Education points are not awarded.</i>
	<b>E.Yu. Borzova.</b> IgE Targeting in Chronic Spontaneous Urticaria Molecular Profiling and Clinical Results <i>Report supported by Novartis, Continuous Medical Education points are not awarded.</i>
3:10– 3:30 p.m.	<b>N.M. Nenasheva.</b> Sublingual Immunotherapy (SLIT): Debating Points <i>Report supported by ALK, Continuous Medical Education points are not awarded.</i>

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3:30–  
4:30 p.m. **SATELLITE SYMPOSIUM**  
**High Dilution Antibody Drugs: From Molecular Mechanisms to Clinical Practice**  
*Moderators: Professor A.E. Shulzhenko, N.V. Shartanova, M.D., Professor A. Glazunov*

**J. Klein-Seetharaman.** Measurement of Putative Conformational Changes in Target under Influence of Highly Diluted Biologics

**A. Kovalchuk.** Insight into the Mechanism of Action of Highly Diluted Biologics

**M. Ovsyannikova.** Treatment and Prevention of ARVI and Influenza: Drugs of Targeted Immuno-Mediated Antiviral Action. The Results of RCTs

*Symposium is supported by Materia-Medica, Continuous Medical Education points are not awarded*

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4:30–  
4:45 p.m. DISCUSSION

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4:45–  
5:00 p.m. BREAK

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4:30–  
6:00 p.m. **PLENARY SESSION # 4**  
**Modern Concept of the Allergic Diseases Pathogenesis**  
*Moderators: E.A. Latysheva, M.D., E.V. Nazarova, Ph.D. of Medical Sciences*

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5:00–  
5:30 p.m. **Liu F-T.** Galectins and Allergic Inflammation

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5:30–  
6:00 p.m. **T. Jardetzky.** Structural Basis for Understanding Anti-IgE Inhibitor Mechanisms of Action

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6:00–  
6:10 p.m. DISCUSSION

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6:10–  
6:30 p.m. CLOSING CEREMONY. REWARDING. SUMMARIZING

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## 2<sup>nd</sup> hall

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9:30–  
11:30 a.m. **SCHOOL**  
**Molecular Allergy Diagnostics**  
*Moderators: Professor T.P. Markova, D.G. Chuvirov, Ph.D. of Medical Sciences*

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9:30–  
10:00 a.m. **T.P. Markova.** News and Advances in Molecular Allergy Diagnostics

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10:00–  
10:30 a.m. **D.G. Chuvirov.** Alimentary Allergies in Children

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10:30–  
11:00 a.m. **I.V. Tarasova.** Allergic Rhinitis Masks. Oral Allergic Syndrome

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11:00–  
11:30 a.m. **A.G. Chuvirova.** Lipid Transport Proteins (LTP) and Allergy Diagnostics

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3:20–  
4:20 p.m.

**SYMPOSIUM**

**Molecular Diagnostics for Precision Medicine in Allergy**

*Moderators: Professor E.S. Fedenko, I.P. Shilovsky, Doctor of Biological Sciences*

**R. Valenta.** Allergenspecific Immunotherapy (ASIT) in the Allergic Bronchial Asthma Treatment

**E.S. Fedenko.** Household Allergens and Quarantine: What We Need to Know and What to Fear?

*Symposium is supported by HVD, Continuous Medical Education points are not awarded*

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4:20–  
6:00 p.m.

**Poster Presentations Competition**

*Moderators: Professor R. Valenta, I.P. Shilovsky, Doctor of Biological Sciences*

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РОССИЙСКАЯ АССОЦИАЦИЯ АЛЛЕРГОЛОГОВ  
И КЛИНИЧЕСКИХ ИММУНОЛОГОВ

Russian Association of Allergists and Clinical Immunologists (RAACI)



**NRC INSTITUTE  
OF IMMUNOLOGY  
FMBA OF RUSSIA**

National Research Center 'Institute of Immunology' of the Federal Medical-Biological Agency



**INUNIMAI**

International Network of Universities  
for Molecular Allergology and Immunology

International Network of Medical Universities and Departments of Postgraduate Medical Education in Molecular Allergology and Immunology (INUNIMAI)



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