

**The first international congress “Genetics and the heart”
Moscow 24-25.01.2020**

**Central state medical academy of department of
presidential affairs**

The National Research League of Cardio genetics

I International congress ‘Genetics and the Heart’

PROGRAMME

Moscow 24-25 January 2020

CO-CHAIRMEN

Boytsov Sergey A., member of the Russian Academy of Sciences, professor, DSc, CEO of the National Medical Research Center for Cardiology, Moscow

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Irina Zotova, Ekaterina Zubova, Larisa Minushkina, Olga Chumakova

24 January 2020 Congress Day I

9.00- 09.30

Registration

Opening

09.30-09.50

Greetings: **Dmitry Verbovoy**, deputy manager, head of the Main medical department of department of presidential affairs; **Yehuda Adler**, Chairperson of ESC Working Group on Myocardial and Pericardial Diseases (Israel); **Sergey Boytsov**, CEO of the National Medical Research Center for Cardiology; **Oxana Drapkina**, CEO of the National Research Center for Preventive Medicine; **Maria Shkolnikova**, Research Leader of Pirogov Russian National Research Medical University “The Research and Clinical Institute for Pediatrics named after Academician Yuri Veltischev”, president of Association of pediatric cardiologists of Russia; **Michael Voevoda**, CEO of the Research Institute of Internal and Preventive Medicine – Branch of the Institute of Cytology and Genetics, Siberian Branch of Russian Academy of Sciences; **Dmitry Zateyshchikov**, chair of the department of Central state medical academy of department of presidential affairs, Chairperson of the National Research League of Cardio genetics

Plenary session I (09.45 – 11.40)

Chairmen: **William McKenna, Elena Golukhova, Sergey Tereshchenko**

09.50-10.40

Definition and classification of hypertrophic cardiomyopathy.
William McKenna (Qatar)

10.40-11.10

Arrhythmias and the risks of sudden death.
Elena Golukhova (Moscow)

11.10-11.40

Heart failure in patients with genetic myocardial diseases.
Sergey Tereshchenko (Moscow)

11.40-12.30

COFFEE BREAK

Symposiums (12.30 – 14.00)

Room 1**Risk of sudden death in genetic diseases:
from clinics to genetics**Chairmen: **Andrea Mazzanti, Olga Moiseeva, Maria Shkolnikova**

- 12.30-12.50** LQT syndrome: risk assessment in patient management.
Andrea Mazzanti (Italy)
- 12.50-13.10** Prognostic role of genetics in cardiomyopathy.
Natalia Sonicheva (Spain)
- 13.10- 13.25** Problems of risk stratification for sudden death in HCM in real clinical practice. **Olga Moiseeva (Saint-Petersburg)**
- 13.25-13.40** Arrhythmogenic Cardiomyopathy. **Olga Veleslavova (Saint-Petersburg)**
- 13.40-13.55** Role NGS in sudden cardiac death of young men (pilot study).
Vladimir Maksimov, D. Ivanoshchuk, P. Orlov, A. Ivanova, S. Malyutina, S. Maksimova, I. Rodina, O. Khamovich, V. Novoselov, M. Voevoda (Novosibirsk)
- 13.55 -14.00** *Panel discussion*

Room 2**Symposium (12.30 – 14.00)
Inherited dyslipidaemias**Chairmen: **Dinara Sadykova, Andrey Susekov**

- 12.30-12.50** Reversible cascade screening in identification of familial hypercholesterolemia. Tatarstan Republic Experience.
Dinara Sadykova (Kazan)
- 12.50-13.10** Inherited dyslipidaemias: diagnostics and treatment.
Andrey Susekov (Moscow)
- 13.10-13.30** Role of genetics in FH patients. Karelia Republic Experience.
Victoria Korneva (Petrozavodsk)
- 13.30-13.50** Pharmacogenetics of statins and personalized approach to medication choice.
Dmitry Zateyshchikov (Moscow)
- Sponsored by RECORDARI, no CME credits*
- 13.50-14.00** *Panel discussion*

Room 3**Symposium (12.30 – 14.00)
Hypertrophic cardiomyopathy**Chairmen: **Irina Leontieva, William McKenna**

- 12.30-12.55** Progress in genetics of HCM – new genes and new strategies.
Juan Pablo Ochoa (Spain)
- 12.55-13.20** Registers and clinical trials of HCM.
Olga Chumakova (Moscow)

- 13.20-13.35 Phenocopies of HCM in children.
Layla Gandaeva (Moscow)
- 13.35-13.50 Systemic approach to HCM patients. Role of “big” data.
Marina Khitrova (Moscow)
- 13.50 -14. 00 *Panel discussion*

14.00-14.30

COFFEE BREAK

Symposiums (14.30-16.00)

Room 1 Current perceptions on primary electric heart diseases

Chairmen: **Elena Golukhova, Andrea Mazzanti**

- 14.30-14.50 Catecholaminergic polymorphic ventricular tachycardia: new approaches to therapy. **Andrea Mazzanti (Italy)**
- 14.50-15.10 Continuity of management from pediatricians to adult cardiologists in inherited rhythm disturbances. **Maria Kharlap (Moscow)**
- 15.10-15.30 Role of genetics in treatment of patients with channelopathies.
Juan Pablo Ochoa (Spain)
- 15.30-15.50 Holter monitoring in QT interval. **Leonid Makarov (Moscow)**
- 15.50-16.00 *Panel discussion*

Symposium (14.30 – 16.00)

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Room 2 Genetics as a new driver in identification of patients after myocardial infarction who needs to optimize lipid-lowering treatment

Chairmen: **Vladimir Konstantinov, Andrey Susekov**

- 14.30-15.00 Inherited pathways of dyslipidaemias and/or poor response to statins.
Vladimir Konstantinov (Saint-Petersburg)
- 15.00-15.30 How to achieve target lipid levels and influence the prognosis of such patients? **Andrey Susekov**
- 15.30-16.00 Clinical cases of genetic approach to selection of lipid-lowering treatment.
Alexandra Ershova (Moscow)

Symposium (14.30-16.00)

Room 3 Inherited cardiovascular diseases in children

Chairmen: **Maria Shkolnikova, Michael Arad**

- 14.30-14.50 Inherited arrhythmias. Clinical and genetic keys to the diagnosis, special features in children. **Elena Vasichkina (Saint-Petersburg)**
- 14.50-15.10 Genetic aspects of hypertrophic cardiomyopathy. **Irina Leontieva (Moscow)**

- 15.10-15.30 Genetic aspects of dilated cardiomyopathy. **Michael Arad (Israel)**
- 15.30-15.50 Genotype-phenotype correlation in Jervell and Lange-Nielsen syndrome. **Rukijat Ildarova (Moscow)**
- 15.50-16.00 *Panel discussion*
- 16.00-16.15 **COFFEE BREAK**

Symposiums (16.15-17.45)

Room 1

Interventions in patients with inherited diseases

Chairmen: **Elena Kosmacheva, Hubert Seggewiss, Antonis Pantazis**

- 16.15-16.30 Alcoholic septal ablation - technique and results. **Hubert Seggewiss (Germany)**
- 16.30-16.45 Surgical treatment of HCM. **Andrey Lysenko (Moscow)**
- 16.45-17.00 Therapeutic aspects of transplantation. **Elena Kosmacheva (Krasnodar)**
- 17.00-17.15 Experience in surgical treatment of patients with obstructive form of HCM. **Alexander Afanasyev (Novosibirsk)**
- 17.15-17.30 Multidisciplinary management of patients with HCM. **Antonis Pantazis (UK)**
- 17.30-17.45 *Panel discussion*

Symposium (16.15-17.45)

Room 2

Amyloidosis - new perspectives

Chairmen: **Michael Arad, Sergey Tereshchenko**

- 16.15-16.50 Cardiac amyloidosis 2020: molecular etiology, diagnostics, therapy. **Michael Arad (Israel)**
- 16.50-17.05 Clinical case reflecting Bulgarian experience in diagnostics and treatment of inherited TTR amyloidosis. **Alexander V. Nosikoff (Bulgaria)**
- 17.05-17.30 TTR cardiac amyloidosis. Clinical features, diagnostics, treatment. Clinical case. **Roman Myasnikov (Moscow)**
- 17.30-17.45 *Panel discussion*

Symposium (16.15-17.45)

Room 3

Pulmonary Hypertension

Chairmen: **Tamila Martynyuk, Dmitry Zateyshchikov**

- 16.15-16.50 Diagnostic algorithm for pulmonary hypertension. **Tamila Martynyuk (Moscow)**
- 16.50-17.10 CT in differential diagnosis of pulmonary arterial hypertension. **Elena Mershina (Moscow)**

- 17.10-17.35 Genetics of pulmonary hypertension - from pathogenesis to clinical practice.
Dmitry Zateyshchikov (Moscow)
- 17.35-17.45 *Panel discussion*

25 January 2020
Congress Day II

Plenary session II (09.00 – 10.10)

Chairmen: **Yuriy Vasyuk, Yehuda Adler, Dmitry Sychev**

- 9.00-9.20 Cardio-oncology – the challenge of the 21st century.
Yuriy Vasyuk (Moscow)
- 9.20-9.50 New pericardial ESC guidelines. **Yehuda Adler (Israel)**
- 9.50-10.10 How to consider congenital features when choosing pharmacotherapy.
Dmitry Sychev (Moscow)

Plenary lecture

- 10.10-10.40 Inherited CVD and sport. **Antonis Pantazis (UK)**

10.40-11.30

COFFEE BREAK

Symposiums (11.30-13.00)

Room 1 Cardiomyopathies: clinical and genetic approaches to the management

Chairmen: **Antonis Pantazis, Anna Kostareva**

- 11.30-11.50 Restrictive cardiomyopathy: genetic and clinical heterogeneity.
Michael Arad (Israel)
- 11.50-12.10 Arrhythmogenic cardiomyopathy. **Antonis Pantazis (UK)**
- 12.10-12.30 Clinical and genetic features of the development of restrictive cardiomyopathy in different age groups. **Anna Kostareva (Saint-Petersburg)**
- 12.30-12.50 Overlapping phenotypes: new paradigms in the treatment of patients with cardiomyopathy. **Natalia Sonicheva (Spain)**
- 12.50-13.00 *Panel discussion*

Symposium (11.30-13.00)

Room 2

Actual lectures

Chairman: **Larisa Minushkina**

- 11.30-12.00 Inherited connective tissue disorders.
Victoria Rumyantseva, Elena Zaklyazminskaya (Moscow)
- 12.00-12.25 Testing for inherited thrombophilia in clinical practice: myths and reality.

Irina Zotova (Moscow)

12.25-12.55 Genetics of arterial hypertension. **Larisa Minushkina (Moscow)**

12.55 -13.00 *Panel discussion*

Room 3

National Atherosclerosis Society Symposium

(11.30-13.00)

Genetics to help in practice

Chairman: **Marat Ezhov**

11.30-11.50 Practical issues of PCSK9 inhibitors prescription in inherited dyslipidaemias. **Marat Ezhov (Moscow)**

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11.50-12.10 Genetics of familial hypercholesterolemia. **Alexey Meshkov (Moscow)**

12.10-12.30 Genetics in peripheral artery disease: are there any features?
Narek Tmoyan (Moscow)

12.30-12.50 Aortic stenosis: from genetics to practice. **Anna Burdeynaya (Moscow)**

12.50-13.00 *Panel discussion*

13.00-13.30

COFFEE BREAK

Symposiums (13.30-15.00)

Symposium (13.30-15.00)

Room 1

Cardiomyopathies: genetics and more

Chairmen: **Elena Basargina, Antonis Pantazis**

13.30-14.00 Non-compaction cardiomyopathy: experience of treating family cases.
Elena Basargina, N.Sdvigova (Moscow)

14.00-14.20 Family non-compaction myocardium. Data of Russian multicenter register.
Roman Myasnikov (Moscow)

14.20-14.40 Genetics of non-compaction cardiomyopathy: research results of National Research Center for Preventive Medicine. **Alexey Meshkov (Moscow)**

14.40-15.00 *Panel discussion*

Room 2

Symposium (13.30-15.00)

Genetic research methods

Chairmen: **Igor Efimov, Maria Popstova, Olga Favorova**

13.30-13.50 *Hi-C* technology method and human heart transcriptomics.
Igor Efimov (USA)

13.50-14.10 Difficulties in interpretation of genetic study for cardiologists. Further recommendations for patients with VUS. **Natalia Shcherbakova (Moscow)**

14.10-14.30 Non-coding RNA in cardiovascular diseases: prospects for diagnosis and therapy. **Maria Poptsova (Moscow)**

14.30-14.50 Development of methodology for searching of disease biomarkers based on transcriptional profiling in myocardial infarction using machine learning algorithms. **German Osmak, Natalia Baulina, Olga Favorova (Moscow)**

14.50-15.00 *Panel discussion*

Symposium (13.30-15.00)

Room 3 **Imaging in cardiomyopathies: challenges and solutions**

Chairmen: **Valentin Sinitsyn, Michael Alekhin**

13.30-14.00 Cardiac MRI in differential diagnosis of DCM syndrome.
Elena Mershina (Moscow)

14.00-14.30 Modern possibilities of echocardiography in the diagnosis of non-ischemic myocardial diseases. **Mikhail Alekhin (Moscow)**

14.30-14.55 Assessment of prognosis in HCM – the contribution of MRI. **Valentin Sinitsyn (Moscow)**

14.55-15.00 *Panel discussion*

15.00-15.15

COFFEE BREAK

Symposiums (15.15-16.45)

Room 1

Cardio-genetic concilium

Chairmen: **Elena Basargina, Dmitry Zateyshchikov, Antonis Pantazis, Juan Pablo Ochoa**

15.15-15.45 Combination of hypertrophic and dilated phenotypes in the patient treated for myocarditis for a long time. **Olga Blagova (Moscow)**

15.45-16.15 Clinical case of severe onset of MPS 1 type: cardiologist view. **Elena Vasichkina (Saint-Petersburg)**

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16.15-16.45 Fabry disease. **Maria Kharlap (Moscow)**

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Scientific session (15.15-16.45)

Room 2

Multifactorial diseases

Chairmen: **Svetlana Nikulina, Galina Lifshits, Alexey Repin**

15.15-15.30 Influence of polymorphism rs10824026 in development of AF.
Svetlana Nikulina, K. Shishkova, V. Shulman, A. Chernova (Krasnoyarsk)

15.30-15.45 New opportunities in the diagnostics of acute myocardial infarction with ST elevation. **Valentina Kozik, N. Lozhkina, A. Tolmacheva, A. Kuimov, V. Maximov, M. Voevoda (Novosibirsk)**

15.45-16.00 Ethnic features of the contribution of genetic markers to the development and course of arterial hypertension. **Galina Lifshits, A. Kovaleva, N. Kokh,**

O. Donirova, E. Voronina, K. Protasov (Novosibirsk)

- 16.00-16.15** Contribution of genetic factors to comorbidity of depression and CAD. **Alexey Repin, E. Muslimova, E. Lebedeva, L. Levchuk, S. Afanasiev (Tomsk)**
- 16.15-16.30** The scale for predicting major cardiovascular events in patients after myocardial infarction, based on genetic markers, echocardiographic parameters and generally accepted cardiovascular risk factors". **Ferida Magamedkerimova (Kazan)**
- 16.30-16.45** *Panel discussion*

Room 3

Scientific session (15.15-16.45)

Postgenomics: new opportunities in cardiology

Chairmen: **Yury Belenkov, Andrey Ardashev**

- 15.15-15.35** Role of microRNA in hypertrophic cardiomyopathy phenotype formation. **Gayane Shakarjyants**
- 15.35-15.55** Role of cardiac endocardial electrophysiological study in management of the patients with hypertrophic cardiomyopathy. **Andrey Ardashev**
- 15.55-16.15** Perspectives of metabolomic analysis in cardiology. **Svetlana Appolonova**
- 16.15-16.35** Metabolomic profiling and endothelial dysfunction in patients with cardiovascular disorders. **Maria Kozhevnikova**
- 16.35-16.45** *Panel discussion*
- 16.45-17.00** **Closing of the Congress**

Congress venue:

Hotel Holiday Inn, 15 Lesnaya Street

DRIVING DIRECTIONS on public transport:

Railway station

BELORUSSKY RAILWAY STATION

Cross Leningradsky prospect, go along Lesnaya Street for 300 meters

Metro

BELORUSSKAYA (ring station)

Get off metro Belorusskaya ring station, turn right then left at Lesnaya street, go along Lesnaya Street for 200 meters

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