



**BASIC RESEARCH IN ENDOCRINOLOGY: A MODERN STRATEGY FOR THE DEVELOPMENT AND TECHNOLOGIES OF PERSONALIZED MEDICINE**

*The event is sponsored by the Russian Foundation for Basic Research*

26 November 2020 Scientific program <b>BASIC RESEARCH IN ENDOCRINOLOGY: A MODERN STRATEGY FOR THE DEVELOPMENT AND TECHNOLOGIES OF PERSONALIZED MEDICINE</b>		
8:30-9:00	<b>Registration for the conference</b> <b>Participants are connected to the webcast</b>	UTC/GMT +7
9:00	<b>Start of webcasting from Conference Hall of Institute of Cytology and Genetics (ICG), Siberian Branch of Russian Academy of Sciences (SB RAS)</b>  <b>Hall No. 1: <a href="https://events.webinar.ru/medcongress/261120w1">https://events.webinar.ru/medcongress/261120w1</a></b>	
<b>Plenary session</b>		
9:00-9:15	<b>Conference opening</b> Voevoda M.I., director of Federal Research Center of Fundamental and Translational Medicine (FRC FTM), member of Russian Academy of Sciences (RAS) Kochetov A.V., director of ICG SB RAS, corresponding member of RAS Ragino Yu.I., head of Institute of Internal and Preventive Medicine (IIPM) – branch of ICG SB RAS, corresponding member of RAS	
9:15-10:00	<b>Plenary presentation</b> O.D. Rymar, M.D., Ph.D., Sc.D. (Novosibirsk) “Epidemiological and clinical-genetic research on endocrine pathologies at the IIPM – a branch of the ICG SB RAS”	
	<b>Conference Hall of ICG SB RAS</b> <b>Hall No. 1</b> <a href="https://events.webinar.ru/medcongress/261120w1">https://events.webinar.ru/medcongress/261120w1</a>	<b>House of Scientists (Dom Uchenykh) SB RAS</b> <b>Hall No. 2</b> <a href="https://events.webinar.ru/medcongress/261120w2">https://events.webinar.ru/medcongress/261120w2</a>
10:00-11:00	Scientific symposium <b>“Endocrine cardiology”</b> Chairpersons: L.A. Ruiatkina, M.D., Ph.D., Sc.D., professor (Novosibirsk); O.D. Rymar, M.D., Ph.D., Sc.D. (Novosibirsk) 1. Ruiatkin D.S., Ruiatkina L.A., Iskhakova I.S. (Novosibirsk) “Lipoglucotoxicity as a subtype of insulin resistance in postmenopausal women with cardiometabolic risks” (10:00-10:15) 2. Tsygankova O.V., Ragino Yu.I. (Novosibirsk) “Parameters of coronary artery calcification in patients with pre-existing coronary heart disease, depending on age and sex hormone levels” (10:15-10:30) 3. Malyutina S.K., Shapkina M.Yu. (Novosibirsk) “Diabetes mellitus and atrial fibrillation according to data from cross-sectional and cohort studies” (10:30-10:45) 4. Shapkina M.Yu., Mazdorova E.V., Avdeeva E.M., Malyutina S.K. (Novosibirsk) “Metabolic factors and long-term risk of atrial fibrillation in a population cohort” (10:53-11:00)	Scientific symposium <b>“Problems of the prevalence, pathogenesis, and treatment of obesity”</b> Chair: S.V. Mustafina, M.D., Ph.D., Sc.D. (Novosibirsk) 1. Mustafina S.V. (Novosibirsk) “Metabolic phenotypes of obesity and its outcomes according to data from 14-year prospective follow-up” (10:00-10:20) 2. Ryabikov A.N., Shakhmatov S.G., Yasyukevich N.V., Malyutina S.K. (Novosibirsk) “Metabolic-dysfunction-associated fatty liver disease (MAFLD): determinants and prognosis” (10:20-10:40) 3. Denisova D.V. (Novosibirsk) “Overweight in adolescents: 30-year trends” (10:40-11:00)

	5. Titarenko A.V., Shishkin S.V., Shcherbakova L.V., Malyutina S.K. (Novosibirsk) "The relation between metabolic risk factors and indicators of cognitive functions in the elderly population" (10:45-10:52)	
11:00-11:30	Break <i>Advertising presentation</i> O.V. Tsygankova, M.D., Ph.D., Sc.D., professor in the Department of Emergency Medicine with Endocrinology and Occupational Diseases, Faculty for Advanced Training and Professional Retraining of Physicians at Novosibirsk State Medical University; Senior Research Associate at the IIPM – a branch of the ICG SB RAS, Novosibirsk, (Astra Zeneca), "Diabetes mellitus and cardiovascular diseases. A clinical medley: divide and mix"	
11:30-13:00	Scientific symposium <b>"Diseases of the thyroid. Possible preventive and therapeutic measures"</b> Chairpersons: V.V. Fadeev, corresponding member of RAS, M.D., Ph.D., Sc.D., professor (Moscow); O.D. Rymar, M.D., Ph.D., Sc.D. (Novosibirsk) 1. Serikbaeva A.A. (Kazakhstan) "Hypothyroidism: a relation with indices of essential and toxic microelements in women of reproductive age in the Aral Sea region (Kazakhstan Republic)" (11:30-12:00) 2. Ruiatkina L.A., Ruiatkin D.S., Iskhakova I.S. (Novosibirsk) "Subclinical hypothyroidism and cardiometabolic risks in postmenopausal women: is there a link?" (12:00-12:30) 3. Fadeev V.V. (Moscow) "Problems of hypothyroidism replacement therapy in modern clinical practice" (12:30-13:00)	Scientific symposium <b>"Modern technologies for the treatment of diabetes mellitus and its complications"</b> Chairpersons: V.V. Klimontov, M.D., Ph.D., Sc.D., professor (Novosibirsk); Y.G. Samoilova, M.D., Ph.D., Sc.D., professor (Tomsk) 1. Klimontov V.V. (Novosibirsk) "Analysis of 'big data' in diabetology: from pathogenesis research to new therapeutic technologies" (11:30-11:50) 2. Semenova Yu.F. (Novosibirsk) "Fluctuations of glucose levels in healthy people: do we know everything?" (11:50-12:10) 3. Samoilova Y.G., Layman O.P., Tonkikh O.S. (Tomsk) "New methods of diagnosing cognitive impairments in diabetes mellitus by modern neuroimaging methods: for whom should we choose which method?" (12:10-12:30) 4. Matveeva M.V. (Tomsk) "Contrast and noncontrast MRI of the brain and glycemic variability in type 1 and 2 diabetes mellitus" (12:30-12:50) <i>10-minute discussion</i>
13:00-13:30	Break <i>Advertising presentation</i> (13:10-13:30) N.A. Petunina, corresponding member of RAS, M.D., Ph.D., Sc.D., professor, chair of the Department of Endocrinology and Diabetology at I.M. Sechenov First Moscow State Medical University, Moscow (Astellas Pharma), "The role of SGLT2 inhibitors in the treatment of type 2 diabetes mellitus"	
13:30-15:00	Scientific symposium <b>"Hormonally active tumors of the pituitary. Modern therapeutic methods"</b> Chairpersons: G.R. Vagapova, M.D., Ph.D., Sc.D., professor (Kazan); S.A. Dogadin, M.D., Ph.D., Sc.D., professor (Krasnoyarsk) 1. Dogadin S.A., Dudina M.A., Savchenko A.A. (Krasnoyarsk) "Acromegaly: does the effectiveness of treatment with somatostatin analogs affect immune-status indicators?" (13:30-13:55) 2. Grineva E.N. (St. Petersburg) "Current options for differential diagnosis of ACTH-dependent hypercortisolism" (13:55-14:20) 3. Vagapova G.R. (Kazan) "Prolactinomas. A personalized approach to treatment" (14:20-14:45) 4. Ivanoshchuk D.E. (Novosibirsk) "Polymorphism of genes <i>SOX2</i> , <i>SOX3</i> , <i>HESX1</i> , and <i>OTX2</i> involved in the formation of the hypothalamic-pituitary axis" (14:45-15:00)	Scientific symposium <b>"Metabolomic research in endocrinology"</b> Chairpersons: A.V. Lisitsa, M.D., Ph.D., Sc.D., member of RAS (Moscow); T.V. Saprina, M.D., Ph.D., Sc.D., professor (Tomsk) 1. Lisitsa A.V. (Moscow) "The use of web tool ScanBious Text Mining to decipher semantic networks of the metabolites associated with obesity" (13:30-13:50) 2. Valeeva F.V., Khasanova K.B. (Kazan) "The molecular basis for early disorders of carbohydrate metabolism" (13:50-14:10) 3. Musina N.N., Saprina T.V. (Tomsk) "The structure of ferrokinetic disorders and anemia in diabetes mellitus, and features of a differential diagnostic algorithm" (14:10-14:30) 4. Musina N.N., Saprina T.V. (Tomsk) "Specific features of ferrokinetics and inflammatory status in patients with concurrent type 1 or 2 diabetes mellitus and dyslipidemia" (14:30-14:50) 5. Shramko V.S. (Novosibirsk) "A study on fatty-acid concentrations and their association with lipid metabolism indicators and lipoprotein-associated phospholipase A2 in patients with visceral obesity" (14:50-15:00)
15:00-15:30	Break	

	<p><i>Advertising presentation (15:00-15:30)</i>  V.V. Klimontov, M.D., Ph.D., Sc.D., scientific deputy head of the branch and a head of the Laboratory of Endocrinology at the Research Institute of Clinical and Experimental Lymphology – a branch of the ICG SB RAS, Novosibirsk, (Astra Zeneca), “Diabetes mellitus and chronic kidney disease: achievements, unresolved problems, and treatment prospects”</p>	
15:30-17:00	<p>Scientific symposium  <b>“An interdisciplinary approach to the diagnosis and treatment of metabolic syndrome”</b>  Chairpersons: G.I. Simonova, M.D., Ph.D., Sc.D., professor (Novosibirsk); S.V. Mustafina, M.D., Ph.D., Sc.D. (Novosibirsk)  Section description: Insulin resistance in various disorders, outcomes of metabolic syndrome, and modern preventive and therapeutic methods.  1. Ragino Yu.I. (Novosibirsk) “The role of vascular calcification in the stability and instability of atherosclerotic plaques in patients with metabolic syndrome” (15:30-15:55)  2. Simonova G.I. (Novosibirsk) “The risk of cardiovascular death in metabolic syndrome according to a prospective study” (15:55-16:20)  3. Bondar I.A. (Novosibirsk) “The prevalence, prevention, and treatment of prediabetes in metabolic syndrome” (16:20-16:45)  4. Benimetskaya K.S. (Novosibirsk) “The relation of proprotein convertase subtilisin/kexin type 9 (PCSK9) with carbohydrate metabolism” (16:45-17:00)</p>	<p>Scientific symposium  <b>“Genomic research in endocrinology”</b>  Chairpersons: M.I. Voevoda, M.D., Ph.D., Sc.D., member of RAS (Novosibirsk); V.N. Maksimov, M.D., Ph.D., Sc.D., professor (Novosibirsk)  1. Maksimov V.N. (Novosibirsk) “Potentially fatal cardiac complications during endocrine pathology. Benefits of genomic findings for their prediction” (15:30-15:55)  2. Shakhtshneider E.V. (Novosibirsk) “Transcription factors responsible for the regulation of carbohydrate and lipid metabolic pathways” (15:55-16:15)  3. Orlov P.S. (Novosibirsk) “<i>CEL</i> gene polymorphism in patients with concurrent hyperglycemia and dyslipidemia” (16:15-16:30)  4. Semaev S.E. (Novosibirsk) “Genetic risk calculators for assessing the risk of CVD in the presence of endocrine pathology” (16:30-16:45)  5. Ivanova A.A. (Novosibirsk) “Endocrine pathologies and molecular genetic markers of sudden cardiac death: is there a connection?” (16:45-17:00)</p>
17:00-17:30	<p>10-minute break  <i>Advertising presentation (17-10:17-30)</i>  G.R. Galstyan, M.D., Ph.D., Sc.D., professor, chair of the Diabetic Foot Department at the National Medical Research Center of Endocrinology, Moscow, (Novo Nordisk), “Cardiovascular safety and diabetes mellitus”</p>	
17:30-18:10	<p>Symposium <b>“Reproductive health”</b>  N.M. Pasman (Novosibirsk), M.D., Ph.D., Sc.D., professor  “PCOS is an interdisciplinary problem with multiple risks. A team approach to patient management”</p>	
18-10:18-30	<p>Final exam (test assignments). Passing grade: <math>\geq 70\%</math> of correct answers</p>	
18:30-19:30	<p>Scientific symposium  <b>“Monogenic types of diabetes mellitus”</b>  Chairpersons: M.I. Voevoda, M.D., Ph.D., Sc.D., member of RAS; O.D. Rymar, M.D., Ph.D., Sc.D.; A.K. Ovsyannikova, M.D., Ph.D. (Novosibirsk)  Andrew Hattersley, professor of Molecular Medicine University of Exeter Medical School (United Kingdom)  “Overview Lecture about monogenic diabetes - Problems around diagnosis/misdiagnosis”</p>	

27 November 2020	
Educational course for physicians MATURITY ONSET DIABETES OF THE YOUNG (MODY): MOLECULAR GENETIC DETERMINANTS AND A PERSONALIZED APPROACH TO TREATMENT	
9:00-10:00 UTC/GMT+7	<p><b>Registration of participants</b>  <b>Start of webcasting from Conference Hall of IIPM – branch of ICG SB RAS</b>  <b>Hall No. 1: <a href="https://events.webinar.ru/medcongress/271120w1">https://events.webinar.ru/medcongress/271120w1</a></b></p>
10:00-10:10	<p>Opening of the educational course</p>
10:10-10:50	<p>Lecture of V.N. Maksimov, M.D., Ph.D., Sc.D., professor (Novosibirsk) “Genomics in personalized medicine”</p>
11:00-11:30	<p>Lecture of A.K. Ovsyannikova, M.D., Ph.D. (Novosibirsk) “A personalized approach to the diagnosis of MODY-type diabetes”</p>

11:30-12:10	Break <i>Advertising presentation</i> O.Y. Shabelnikova, M.D., Ph.D., chair of the Endocrinology Department at Novosibirsk Regional Clinical Hospital, head of the Regional Endocrinology Center, and Chief Endocrinologist of Novosibirsk Oblast, “The patient with type 2 diabetes mellitus and chronic kidney disease from the standpoint of an endocrinologist,” Novosibirsk (Astellas Pharma)
12:10-13:30	Lecture of M.A. Kovarenko, M.D., Ph.D. (Novosibirsk) “Diagnostic dilemmas of diabetes mellitus in children and young adults” (12:10-12:45) Lecture of O.D. Rymar, M.D., Ph.D., Sc.D.; A.K. Ovsyannikova, M.D., Ph.D. (Novosibirsk) “A personalized approach to MODY treatment: presentation of clinical cases” (12:45-13:20) Discussion
13:30-14:00	Break
14:00-15:30	Lecture of A.K. Ovsyannikova, M.D., Ph.D. (Novosibirsk) “The course of common MODY forms (GCK-MODY and HNF1A-MODY) in the Siberian region: data from dynamic observation” (14:00-14:40) Lecture of Yu.A. Dolinskaya (Novosibirsk) “Specific features of the GCK-MODY course: presentation of a clinical case” (14:40-15:20) Discussion
15:30-15:45	Break
15:45-17:15	Lecture of N.A. Zubkova, M.D., Ph.D. (Moscow) “Diagnosis and treatment of MODY during pregnancy” (15:45-16:30) Lecture of Dr. Alice Hughes, Wellcome Trust Funded Clinical Academic Training, PhD Fellow, University of Exeter Medical School (UK) “Prenatal testing in GCK-MODY pregnancies: an opportunity for precision medicine to make an impact in obstetric medical care” (16:30-17:15)
17:15-17:30	Break
17:30-18:00	Lecture of A.K. Ovsyannikova, M.D., Ph.D. (Novosibirsk) “Rare subtypes of monogenic types of diabetes mellitus: presentation of clinical cases”
18:00-18:30	Lecture of E.V. Shakhtshneider, M.D., Ph.D. (Novosibirsk) “Cascade genetic testing for hereditary types of diabetes mellitus”
18:30-19:00	Final exam (test assignments). Passing grade: $\geq 70\%$ of correct answers. Concluding procedures of the educational course

### INFORMATION FOR LISTENERS

Dear listeners of the conference webcast:

The registration of listeners will take place at the links given below; in the registration form, you need to clearly indicate your contact data, place of work, city, phone number, and e-mail so that, if necessary, we can contact you about sending NMO (continuing medical and pharmaceutical education) scores, etc.

The online broadcast of the event will be carried out simultaneously from two conference halls. The registration for and connection to each conference hall take place separately before the event starts. To view presentations in different conference halls, links must be open on the desktop in different browser windows, for quick switching from one hall to another. Each listener must register for each hall separately using the links below.

#### 26 November 2020 (UTC/GMT +7)

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#### 27 November 2020 (UTC/GMT +7)

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After you take the final exam, NMO scores will be sent to the email addresses provided during the registration within 30 work days after the end of the event. Full information on the educational course can be found on the website [www.sovetnmo.ru](http://www.sovetnmo.ru)