

October 29

- 11:00 – 11:20** **CONFERENCE OPENING**
- 11:20 – 12:00** **PLENARY LECTURE 1**
Yurii Aulchenko *Institute of Cytology and Genetics, SB RAS, Novosibirsk, Russia;
University of Edinburgh, UK*
When genomics meets other omics: the potential of multi-omics for
disentangling human diseases
- 12:00 – 12:40** **PLENARY LECTURE 2**
Yoshihide Hayashizaki *PMI, RIKEN, Japan*
New gene expression regulation world based on transcriptome network
- 12:40 – 13:20** **PLENARY LECTURE 3**
Sergey Nedospasov *V.A. Engelhardt Institute of Molecular Biology, RAS, Moscow;
M.V. Lomonosov Moscow State University; N.I. Lobachevsky State University of
Nizhni Novgorod, Russia*
Reverse genetics and anti-cytokine therapy
- 13:20 – 14:00** **PLENARY LECTURE 4**
Eric Westhof *Architecture et Réactivité de l'ARN, Université de Strasbourg, Institut
de biologie moléculaire et cellulaire du CNRS, Strasbourg, France*
The prediction of RNA binding sites in proteins
- 14:00 – 15:00** **LUNCH**
- 15:00 – 18:30** **Symposium 1: Genomics and metagenomics**
- 15:00 – 18:30** **Symposium 5: Cell technologies and regenerative medicine**
- 15:00 – 18:30** **Symposium 7: Biomarkers, genes and omics in studies on pathogenesis of socially
significant human diseases. Molecular epidemiology**
- 19:00 – 21:00** **WELCOME PARTY**

October 30

09:00 – 09:40

PLENARY LECTURE 5

Christoph Borchers *UVic – Genome BC Proteomics Centre, MRM Proteomics Inc., British Columbia, Canada*

MRM and iMALDI for clinical proteomics

09:40 – 10:20

PLENARY LECTURE 6

Sergey Deyev *M.M. Shemyakin and Yu.A. Ovchinnikov Institute of Bioorganic Chemistry, RAS, Moscow, Russia*

Self-assembly of theranostic agents based on protein-protein interactions

10:20 – 11:00

PLENARY LECTURE 7

Alexander Gabibov *M.M. Shemyakin and Yu.A. Ovchinnikov Institute of Bioorganic Chemistry, RAS, Moscow, Russia*

Mechanisms of DNA degradation

11:00 – 11:40

COFFEE BREAK

11:40 – 12:20

PLENARY LECTURE 8

Vadim Ivanov *M.M. Shemyakin and Yu.A. Ovchinnikov Institute of Bioorganic Chemistry, RAS, Moscow, Russia*

New dark matter: peptidome as unstudied component of living system

12:20 – 13:00

PLENARY LECTURE 9

Oksana Lockridge *985950 Nebraska Medical Center, Omaha, NE, USA*

Human butyrylcholinesterase deficiency and function of butyrylcholinesterase

13:00 – 14:00

POSTER SESSION / ROUND TABLE DISCUSSIONS

14:00 – 15:00

LUNCH

15:00 – 19:30

Symposium 2: Methods of analysis of the transcriptional activity of coding and noncoding parts of the genome

15:00 – 19:30

Symposium 4: Bioinformatics. Information technology in processing and interpretation of genome data

15:00 – 19:30

Symposium 5: Cell technologies and regenerative medicine

15:00 – 19:30

Symposium 9: Postgenomic technologies in drug design & discovery

15:00 – 19:30

Symposium 10: Sports Medicine

October 31

- 09:00 – 09:40** **PLENARY LECTURE 10**
Valery Puzyrev *Tomsk Research Institute of Medical Genetics, Tomsk, Russia*
Medical genetics in personalized medicine
- 09:40 – 10:20** **PLENARY LECTURE 11**
David Zaridze *Russian N.N. Blokhin Cancer Research Centre, Moscow, Russia; Oxford University, UK; International Prevention Research Institute, Lyon, France*
Genome-wide association studies in oncology
- 10:20 – 11:00** **PLENARY LECTURE 12**
David Leon *London School of Hygiene & Tropical, Medicine, UK; UiT the Arctic University of Norway*
Using genetic variants to help identify causal associations between the environment and disease
- 11:00 – 11:40** **COFFEE BREAK**
- 11:40 – 12:20** **PLENARY LECTURE 13**
Michel Georges *Unit of Animal Genomics, GIGA-R & Faculty of Veterinary Medicine, University of Liège (B34), Belgium*
Systematic search for causative variants and genes in GWAS-identified risk loci for inflammatory bowel disease
- 12:20 – 13:00** **PLENARY LECTURE 14**
Moncef Zouali *Inserm & University Paris Diderot, Sorbone Paris Cité, France*
Epigenetics, immune tolerance, and autoimmunity
- 13:00 – 14:00** **POSTER SESSION / ROUND TABLE DISCUSSIONS**
- 14:00 – 15:00** **LUNCH**
- 15:00 – 19:30** **Symposium 1: Genomics and metagenomics**
- 15:00 – 19:30** **Symposium 3: Proteomics, peptidomics and metabolomics**
- 15:00 – 19:30** **Symposium 4: Bioinformatics. Information technology in processing and interpretation of genome data**
- 15:00 – 19:30** **Symposium 6: Nanotechnologies in medical and biological research**
- 15:00 – 19:30** **Symposium 8: Personalized medicine**

November 1

09:00 – 09:40

PLENARY LECTURE 15

Vsevolod Tkachuk *Lomonosov Moscow State University, Moscow, Russia*

Regulation of regeneration

09:40 – 10:20

PLENARY LECTURE 16

Alain Krol *Architecture et Réactivité de l'arN, Université de Strasbourg – CNRS, Institut de Biologie Moléculaire et Cellulaire, Strasbourg Cedex, France*

Selenoproteins in health and disease. Towards understanding their peculiar mechanism of biosynthesis

10:20 – 11:00

PLENARY LECTURE 18

Valentin Vlassov *Institute of Chemical Biology and Fundamental Medicine, SB RAS, Novosibirsk, Russia*

Therapeutic nucleic acids

11:00 – 11:40

PLENARY LECTURE 17

Nikolai Kolchanov, S.A. Lashin, K.V. Gunbin *Institute of Cytology and Genetics, SB RAMS, Novosibirsk, Russia*

Regulatory genetic systems: experimental computer-assisted analysis and modeling

11:40 – 12.10

COFFEE BREAK

12:10 – 12:40

CLOSING CEREMONY. HANDLING OF AWARDS TO AUTHORS OF BEST POSTER PRESENTATIONS

12.40 – 15.00

Symposium 2: Methods of analysis of the transcriptional activity of coding and noncoding parts of the genome

12.40 – 15.00

Symposium 4: Bioinformatics. Information technology in processing and interpretation of genome data

12.40 – 15.00

Symposium 9: Postgenomic technologies in drug design & discovery