ONCOLOGY. AUTOIMMUNITY. IMMUNOLOGY

October 30, 14:30 – 16:30 Maly Donskoy Hall

Session 1
Chairs: Evgeny NASONOV and Zemin ZHANG

20 min **Yuting MA** *Institute of Systems Medicine, Chinese Academy of Medical Sciences/Peking Union Medical College, China*
Stress reshapes the immune macroenvironment

20 min **Danila BOBKOV[1,2],** R. Likhomanova[1,2], G. Fofanov[2], A. Lukacheva[1,2], N. Yudintseva[1,2], M. Shevtsov[1,2], A. Kayumov[3], M. Bogachev[3,4] *[1]Institute of Cytology, Russian Academy of Sciences, St Petersburg; [2]Personalized Medicine Centre, Almazov National Medical Research Centre, St Petersburg; [3]Kazan Federal University, Kazan; [4]St Petersburg State Electrotechnical University "LETI", St Petersburg, Russia*
Human MSCs and glioblastoma cell motility patterns as a differential marker in co-culture

20 min **Dong GAO** *Shanghai Institute of Biochemistry and Cell Biology, Center for Excellence in Molecular Cell Science, China*
Androgen signaling and cell fates determination

20 min **Bo HUANG** *Chinese Academy of Medical Sciences & Peking Union Medical College, China*
All the efforts of cells converge on glycogen-NADPH axis to control ROS

20 min **Tatyana GRINENKO** *Shanghai Institute of Hematology, State Key Laboratory of Medical Genomics, National Research Center for Translational Medicine at Shanghai, Ruijin Hospital Affiliated to Jiao Tong University School of Medicine, Shanghai, China*
Regulation of hematopoietic stem cell activation

20 min **Evgenia STAROSTINA,** I.N. Dyakov, E.A. Troshina *Endocrinology Research Center, Russian Ministry of Health, Moscow, Russia*
The thyroid gland function in patients with COVID-19 who received genetic engineering therapy, focus on cytokines

ONCOLOGY. AUTOIMMUNITY. IMMUNOLOGY

October 30, 16:50 – 18:50 Maly Donskoy Hall

Session 2
Chairs: Yuting MA and Evgeny Nasonov

20 min **Yiwei CHU** *Fudan University, China*
Immune regulation of B cell in autoimmune diseases and cancer

20 min **Yakov LOMAKIN[1],** L.A. Ovchinnikova[1], S.S. Dzhelad[1], S.S. Terekhov[1], T.O. Simaniv[2], M.N. Zakharova[2], A.G. Gabibov[1] *[1]Shemyakin–Ovchinnikov Institute of Bioorganic Chemistry, RAS; [2]Research Center of Neurology, Moscow, Russia*
Characterization of pathological antigen-specific B cell repertoire in multiple sclerosis

20 min **Bing SU** *Shanghai Jiaotong University School of Medicine, China*
Sin1-mTORC2 signal in immune cell growth and development

20 min **Limin ZHENG** *Sun Yat-sen University, China*
Myeloid cells and tumor microenvironment

20 min **Alexey STEPANOV** *Shemyakin–Ovchinnikov Institute of Bioorganic Chemistry, Russian Academy of Sciences, Moscow, Russia*
Improving control and specificity of CAR T cells

ONCOLOGY. AUTOIMMUNITY. IMMUNOLOGY

November 1, 14:10 – 16:10 Kutuzov Hall

Session 3
Chairs: Dmitry CHUDAKOV and Evgeny Imyanitov

20 min **Mikhail KRASIL'NIKOV** *N.N. Blokhin National Medical Research Center of Oncology, Russian Ministry of Health, Moscow, Russia*
The phenomenon of self-maintaining of activated signaling pathways in the progression of tumor resistance

20 min **Vadim POKROVSKY** *N.N. Blokhin National Medical Research Center of Oncology; Peoples' Friendship University, Moscow, Russia*
Human cancer models in vivo: PDX vs CDX

20 min **Nikolai LITVIAKOV,** M.K. Ibragimova, I.A. Tsydenova, D.S. Dolgasheva, E.A. Gaptulbarova, E.A. Kravtsova *Cancer Research Institute, Tomsk National Research Medical Center, Tomsk, Russia*
Comparison of CNA-genetic landscapes of breast, lung, larynx, ovary, cervix and colorectal cancer, association with characteristics and outcome of the disease

20 min **Svetlana ALEKSAKHINA** *N.N. Petrov Research Center of Oncology, St Petersburg, Russia*
Detection of major BRCA1/2 gene rearrangements in patients with breast and ovarian tumors

20 min **Aglaya IYEVLEVA** *N.N. Petrov Research Center of Oncology, St Petersburg*
Analysis of genomic signatures of DNA homologous recombination deficiency in prostate cancer

20 min **Aleksandr MARTIANOV** *N.N. Petrov Research Center of Oncology, St Petersburg, Russia*
Molecular pathogenesis of colorectal cancer

ONCOLOGY. AUTOIMMUNITY. IMMUNOLOGY

November 1, 16:30 – 18:30 Kutuzov Hall

Session 4
Chairs: Dmitry CHUDAKOV and Evgeny Imyanitov

20 min **Musa KHAITOV,** I.A. Kofiadi *Institute of Immunology, Federal Medical Biological Agency, Moscow, Russia*
Postgenome technologies in drug development

20 min **Ksenia SMIRNOVA** *N.N. Blokhin National Medical Research Center of Oncology, Moscow, Russia*
Epstein-Barr virus oncogenes and their role in tumor progression

20 min **Maria LUKINA[1,2],** K. Anufrieva[1], O. Ivanova[1,2], A. Kazakova[1], P. Shnaider[1], E. Svirina[1], K. Klimina[1], A. Kashina[3], E. Vasilchikova[3], M. Pavlyukov[1,4], M. Lagarkova[1], V. Govorun[5], G. Arapidi[1,4], V. Shender[1,4]
[1]Lopukhin Federal Research and Clinical Center of Physical-Chemical Medicine, Federal Medical Biological Agency of Russia, Moscow; [2]Center for Precision Genome Editing and Genetic Technologies for Biomedicine, Lopukhin Federal Research and Clinical Center of Physical-Chemical Medicine, Federal Medical Biological Agency of Russia, Moscow; [3]Privolzhsky Research Medical University, Nizhny Novgorod; [4]Shemyakin-Ovchinnikov Institute of Bioorganic Chemistry, Russian Academy of Sciences, Moscow; [5]Research Institute for Systems Biology and Medicine, Moscow
A novel therapeutic strategy combining spliceosome modulation and DNA-damaging agents in cancer treatment

20 min **Anastasia KAZAKOVA[1,2,3],** K.S. Anufrieva[2], M.M. Lukina[1,2], O.M. Ivanova[1,2], P.V. Shnaider[1,2], V.O. Shender[2,4], G.P. Arapidi[2,3,4] *[1]Center for Precision Genome Editing and Genetic Technologies for Biomedicine, Lopukhin Federal Research and Clinical Center of Physical-Chemical Medicine, Federal Medical Biological Agency; [2]Lopukhin Federal Research and Clinical Center of Physical-Chemical Medicine, Federal Medical Biological Agency, [3]Moscow Institute of Physics and Technology (State University); [4]Shemyakin–Ovchinnikov Institute of Bioorganic Chemistry, RAS, Moscow, Russia*
Investigating tumor-suppressing fibroblast population and its impact on ovarian adenocarcinoma cells

20 min **Ilya KISLYAK,** V.S. Pokrovsky *Patrice Lumumba Peoples' Friendship University of Russia; N.N. Blokhin National Medical Research Center of Oncology, Moscow, Russia*
Expression of the asparagine synthetase gene as a predictor of melanoma sensitivity to L-asparaginase

20 min **Anastasia AVDEEVA,** A.P. Aleksankin, E.V. Tchetina, Yu.N. Gorbunova, T.V. Popkova, G.A. Markova, T.A. Panafidina, E.L. Nasonov *V.A. Nasonova Research Institute of Rheumatology, Moscow*
Immunophenotypic heterogeneity of autoimmune rheumatic diseases: prospects for personalized therapy