

**NIH – RFBR Collaborative Research Partnership:
Meeting to Identify Scientific Priorities for U.S.-Russia Research Collaboration
in the Prevention and Treatment of HIV/AIDS Co-Morbidities
and Workshop for Early-Career Investigators**

*April 13-15, 2016
Holiday Inn “Moscow Gates”
St. Petersburg, Russian Federation*

**Meeting to Identify Scientific Priorities for U.S.-Russia Research Collaboration
in the Prevention and Treatment of HIV/AIDS Co-Morbidities**

DAY 1

April 13

Venue: Pasternak Room, Third Floor

- 8:15-8:45** **Registration**
- 8:45-9:30** **Opening Remarks and Aims of the Scientific Meeting**
- Olga Kazanskaya, Vice-Governor of St. Petersburg
 - Academician Vladislav Panchenko, Chairman of RFBR Council
 - Robert Eisinger, Acting Director, OAR/NIH
 - Academician Valery Chereshnev, Chairman, State Duma Committee for Science and High Technologies
 - Sergey Tunik, Vice-Rector, St. Petersburg State University
 - Academician Genrich Sofronov, Russian Academy of Sciences, Division of Medical Sciences
 - Thomas Leary, U.S. Consul General in St. Petersburg
- 9:30-9:45** **Special Presentation Dedicated to the Memory and Work of Dr. Aza Rakhmanova:**
Nikolay Belyakov (North-West AIDS Center, St. Petersburg)
- 9:45-10:55** **PLENARY SESSION 1: NIH-RFBR Collaboration**
- Alexander Gabibov, RFBR: *Overview of RFBR-NIH Partnership and Outcomes of Funding Rounds 1 and 2*
 - Natalie Tomitch, OAR/NIH: *A Snapshot of NIH Bilateral Initiatives and Key Outcomes*
 - Oleg Sharipov, RFBR: *RFBR Priorities and Programs*
 - Robert Eisinger, OAR/NIH: *NIH Priorities Related to HIV/AIDS Research*
 - Q&A
- 10:55-11:25** **Coffee/Tea break, Mendelson Lounge, Third Floor**

11:25-11:45 KEYNOTE PRESENTATION

Nikolay Belyakov (North-West AIDS Center, St. Petersburg): *The HIV/Co-morbidity Complex and Russian Research Priorities in HIV-associated Co-morbidities*

11:45-13:10 PLENARY SESSION 2: HIV Co-Infections: TB and HCV

Moderators: Stuart Ray, Sergey Kochetkov

Aleksander Panteleyev (First Pavlov State Medical University of St. Petersburg): *Clinical-morphological characteristics of MDR-TB in the context of HIV infection*

Stuart Ray (Johns Hopkins University, Baltimore): *Pathophysiology of HCV, liver disease, and HCC in HIV co-infection*

Aleksander Semyonov (North-West District AIDS Center, St. Petersburg): *HIV and chronic hepatitis markers in peripheral blood in the evaluation of the severity of the inflammatory process in patients with co-infections*

Sergey Kochetkov (Engelhardt Institute of Molecular Biology, Moscow): *HIV/HCV infection and cell oxidative stress*

Early-career investigator:

Elena Vasileva (Pasteur Institute, St. Petersburg): *The search for informative biomarkers for early immunological diagnosis of tuberculosis in patients with HIV infection*

Discussion

13:10-14:15 Lunch, Rodchenko Restaurant, Third Floor

14:15-18:25 PLENARY SESSION 3: Major Non-Communicable Co-Morbidities

14:15-16:05 3A: HIV and Cancer

Moderators: Kishor Bhatia, Sergey Deyev

Sam Mbulaiteye (NCI/NIH): *Global epidemiology and the burden of HIV-related cancers*

Vadim Rassokhin (First Pavlov State Medical University of St. Petersburg): *Clinical and epidemiological characteristics of malignant tumors in HIV infections in St. Petersburg*

Joel Palefsky (University of California-San Francisco): *HPV-related co-morbidities in people with HIV*

Boris Afanasiev (Raisa Gorbacheva Memorial Institute of Pediatric Oncology, Hematology and Transplantation, First Pavlov State Medical University of St. Petersburg): *Hematological malignancies in HIV-patients: chemotherapy, stem cell transplantation, and gene therapy*

Aleksander Shtil (Blokhin Cancer Center, Moscow): *FOF1 ATP-synthase as a therapeutic target for AIDS-associated lymphoma: design of novel inhibitors*

Andrei Vzorov (Ivanovsky Institute of Virology, Gamaleya Federal Research Center of Epidemiology and Microbiology, Moscow): *Modified HIV-1 Env proteins in VLPs enhance induction of neutralizing antibodies*

Early-career investigator:

Marina Popova (Raisa Gorbacheva Institute of Pediatric Oncology, Hematology and Transplantation, First Pavlov State Medical University of St. Petersburg): *Epidemiology and outcome of lymphomas in HIV infected patients: a multicenter retrospective study*

Discussion

16:05-16:35 Coffee/Tea Break, Mendelson Lounge, Third Floor

16:35-18:25 3B: Cardiovascular, Lung, Blood, and Other Non-Communicable Diseases in HIV/AIDS

Moderators: Wendy Post, Dmitry Lioznov

Marina Bobkova (Ivanovsky Institute of Virology, Gamaleya Federal Research Center of Epidemiology and Microbiology, Moscow): *The impact of HIV genetic diversity on the effectiveness of ART in the context of the development of co-morbidities*

Graham Simmons (Blood Systems Research Institute, San Francisco): *The human virome and its association with inflammation and HIV co-morbidities*

Vadim Rassokhin (First Pavlov State Medical University of St. Petersburg): *Analysis of co-morbidities in HIV infection*

Michael Bukrinsky (George Washington University, Washington DC): *HIV-associated atherosclerosis: contribution of HIV-1 Nef*

Sergey Nedospasov (Engelhardt Institute of Molecular Biology, Moscow): *Cytokines in inflammation and infections*

Wendy Post (Johns Hopkins University, Baltimore): *Cardiovascular disease in HIV patients*

Early-career investigator:

Marat Valikhov (Russian Cardiology Research Center, Moscow): *Inflammatory cytokine tumor necrosis factor- α induces cardiomyocyte pathological changes*

Discussion

18:25 Wrap-up/adjourn

18:30-20:00 Reception, Selvinsky Lounge, Third Floor

DAY 2 – April 14

9:00-10:50 PLENARY SESSION 4: HIV Prevention in Vulnerable Populations Across the Lifespan

Moderators: Susan Newcomer, Svyatoslav Plavinsky

Dariko Niauri (St. Petersburg State University): *HIV associated co-morbidities: the role of the mother-placenta-fetus complex*

Elena Yastrebova, Svetlana Beniova (First Pavlov State Medical University of St. Petersburg, Pacific State Medical University, Vladivostok): *Children born with HIV: developmental problems and opportunities for staying healthy*

Tatiana Balachova (University of Oklahoma Health Sciences Center, Oklahoma City): *International collaboration in HIV prevention research: HIV and alcohol-exposed pregnancies risk among Russian women*

Alla Shaboltas (St. Petersburg State University): *Behavioral strategies to increase motivation for HIV testing in the general population: the results of a NIH/RFBR study in St. Petersburg*

Andrea Wirtz (Johns Hopkins University, Baltimore): *HIV and substance use among MSM and female sex workers in the Russian Federation*

Brian Forsyth (Yale University, New Haven): *The impact of the HIV epidemic on women, children, and adolescents: lessons learned from South Africa*

Early-career investigator:

Galina Uraeva (St. Petersburg State University): *Prospects for Internet-based HIV prevention programs*

Discussion

10:50-11:20 Coffee/Tea break, Mendelson Lounge, Third Floor

11:20-12:40 PLENARY SESSION 5: HIV-Associated Neurological Disorders (HAND)

Moderators: Tatiana Balachova, Alla Shaboltas

Nikolay Belyakov (North-West AIDS Center, St. Petersburg): *Primary pathogenic factors of central nervous system injury in HIV infection*

Avi Nath (NINDS/NIH): *The role of HIV-tat-protein in mediating HIV-associated neurocognitive disorders*

Tatiana Trofimova (Institute of the Human Brain, St. Petersburg): *Mechanisms of neurocognitive disorders in HIV infection*

Avi Nath (NINDS/NIH): *HIV reservoirs in the brain*

Early-career investigator:

Evgeny Magonov (Institute of the Human Brain, St. Petersburg): *Structural brain changes in the early stages of HIV*

Discussion

12:40-13:40 Lunch, Rodchenko Restaurant, Third Floor

13:40-16:45 PLENARY SESSION 6: HIV-Associated Neuropsychiatric and Mental Health Co-morbidities and Socio-Behavioral Components that Affect HIV Prevention and Treatment

13:40-14:45 Moderators: Ralph DiClemente, Evgeny Krupitsky

Igor Grant (University of California-San Diego): *Neuropsychiatric complications of HIV in the current treatment era: challenges and future directions*

Nikolay Neznanov, Nadezhda Halezova (Bekhterev Psychoneurological Research Institute, St. Petersburg): *Clinical-dynamic characteristics of mental disorders in HIV-infected patients*

Svyatoslav Plavinsky (Mechnikov North-West Medical University, St. Petersburg): *Structural and behavioral factors in the prevention of HIV infection in high-risk groups*

Early-career investigator:

Egor Chumakov (St. Petersburg State University): *Cognitive impairment and its correlations with mental disorders in HIV-infected patients with early syphilis*

Discussion

14:45-15:15 Coffee/Tea Break, Mendelson Lounge, Third Floor

PLENARY SESSION 6 (continued)

15:15-16:35 Moderators: Robert Heimer, Victoria Dudina

Jeffrey Samet (Boston University and Boston Medical Center): *Co-morbidities and care cascade consequences of the alcohol, substance use, and HIV/AIDS triad in Russia*

Evgeny Krupitsky (Bekhterev Psychoneurological Research Institute, St. Petersburg): *Opioid antagonist treatment for opioid dependence reduces HIV risk behaviors and may improve ART outcomes*

Dmitry Lioznov (First Pavlov State Medical University of St. Petersburg): *Mathematical modeling of HIV-epidemic depending on ART coverage and harm reduction programs in Saint-Petersburg, Russia*

Robert Heimer (Yale School of Public Health, New Haven): *Psychiatric distress, drug use, and HIV viral load suppression in Russia*

Early-career investigator:

Marina Vetrova (First Pavlov State Medical University of St. Petersburg): *The evaluation of immune dysregulation during alcohol withdrawal treatment and early remission among HIV infected alcoholics*

Discussion

16:35-16:45 Summary/Closing Comments and Adjourn

16:45-18:45 Poster Session by Early-Career Investigators and Networking Event

**NIH – RFBR Collaborative Research Partnership
on the Prevention and Treatment of HIV/AIDS and its Co-Morbidities**

DAY 3

April 15

WORKSHOP FOR EARLY-CAREER INVESTIGATORS

9:00-10:15 GRANTSMANSHIP SESSION: How to write a grant application that gets funded?

9:00-9:45 Overview of NIH and RFBR Application and Review Processes and “Universal Grantsmanship Principles”

- Susan Newcomer (NICHD/NIH)
- Alexander Gabibov (RFBR)
- Irina Zhurbina (Department of Programs for Junior Researchers, RFBR)

9:45-10:15 Discussion

10:15-10:45 Coffee/Tea Break, Mendelson Lounge, Third Floor

10:45-12:45 PRESENTATIONS BY RUSSIAN EARLY-CAREER SCIENTISTS

Moderators: Jeffrey Samet, Marina Gottikh

Anastasiya Kholodnaya (First Pavlov State Medical University of St. Petersburg): *Role of gut microbiota in microbial translocation in HIV-infected patients*

Discussion

Margarita Martirosyan (St. Petersburg State University): *HPV-Associated cervical lesions among HIV-infected women in St. Petersburg*

Discussion

Touyana Semenova (Irkutsk State Medical University, Russia/University Grenoble Alpes, France): *Epstein-Barr virus biomarkers in HIV-associated lymphomas.*

Discussion

Oksana Ayzsilnieks (First Pavlov State Medical University of St. Petersburg): *Severe acute retroviral syndrome and immune reconstitution syndrome as risk factors for malignancies in HIV-infected subjects*

Discussion

Anastasiya Shunaeva (Lomonosov Moscow State University): *Replication of HIV-1 with accessory gene deletions in cell-coculture and cell-free modes of transmission*

Discussion

Tatiana Yaroslavtseva (Valdman Institute of Pharmacology, First Pavlov State Medical University of St. Petersburg): *Examination of inflammatory markers in HIV-infected person with heavy alcohol consumption*

Discussion

Aleksey Lebedev (Gamaleya Federal Research Center of Epidemiology and Microbiology, Moscow): *The evolution of HIV-1 AFSU genetic variant in IDUs and heterosexuals at the population level*

Discussion

Elena Matyugina (Engelhardt Institute of Molecular Biology, Moscow): *5'-Norcarbocyclic Nucleoside Derivatives: Synthesis and Spectrum of Biological Activity*

Discussion

12:45-13:45 Lunch, Rodchenko Restaurant, Third Floor

13:45-15:55 PANEL DISCUSSION: PERSPECTIVES FROM ESTABLISHED RUSSIAN AND U.S. SCIENTISTS

Moderators: Natalie Tomitch, Irina Zhurbina

Panel Members:

Russia:

Dmitry Mazurov (Institute of Immunology)

Vladimir Poroikov (Orekhovich Institute of Biomedical Chemistry)

Sergey Kochetkov (Engelhardt Institute of Molecular Biology)

Svyatoslav Plavinsky (Mechnikov North-West Medical University)

USA:

Ralph DiClemente (Emory University)

Robert Heimer (Yale University)

Michael Bukrinsky (George Washington University)

Tatiana Balachova (University of Oklahoma)

Brief Presentations and Discussion:

- Highlights of International Collaborations: Outcomes and Successes
- Key Opportunities for Future Collaboration
- Lessons Learned and Challenges
- Building a Successful Collaboration: How to Formulate Research Questions for Collaboration and Identify Potential Collaborators

15:55 Wrap-up and Adjourn

16:10-17:45 NIH-RFBR ADMINISTRATIVE SESSION (CLOSED)