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)