

Program of the Workshop-Conference “Biosafety principles in microbiological laboratories”

(for virologists, microbiologists, epidemiologists and public health workers of CIS countries,
October 14-18, 2013)

Monday (Day 1)	
8 ³⁰ a.m.	Registration of participants
9 ⁰⁰ a.m.	Opening of the Workshop Glenn Schweitzer , Director of the Office for Central Europe and Eurasia, NAS, USA David Franz , Consultant and Professor, University of Kansas Mamedyar Azayev , Head of Biosafety Educational Unit at the SRC VB “Vector” Sergey Netesov , Vice-Rector (Research) at the Novosibirsk State University
9 ¹⁵ a.m.	Sergey Netesov . Classification of infectious microorganisms by risk groups. The differences between the classification recommended by the WHO and that accepted in Russia. The concept of laboratories biosafety; description of biosafety levels.
11 ⁰⁰ a.m.	Coffee break.
11 ³⁰ a.m.	Larissa Uryutova . Biosafety Level 3 (design features, laboratory equipment, personnel access and protection, medical monitoring and health surveillance).
12 ³⁰ p.m.	Lunch
2 ⁰⁰ p.m.	Larissa Uryutova . Biosafety Levels 1 and 2 (requirements for laboratory furniture and laboratory equipment, personnel access and protection, medical monitoring and health surveillance).
3 ⁰⁰ – 4 ³⁰ p.m.	Alexandr Boldyrev . PCR diagnostics of hemorrhagic fevers.
4 ³⁰ – 4 ⁵⁰ p.m.	Coffee break
4 ⁵⁰ – 6 ⁴⁰ p.m.	Brief reports of participants from Central Asian countries on outbreaks of infectious diseases and other instructive cases from practice.
Tuesday (Day 2)	
8 ³⁰ a.m.	Alexandra Dadaeva, Natalya Zubavichene . Standard precautions when working with blood, other body fluids, organs, and tissues. Natalya Zubavichene, Ekaterina Genina . The use of PPE when working at different Biosafety levels (theory and practice).
10 ⁰⁰ a.m.	Coffee break.
10 ³⁰ a.m.	Alexandra Dadaeva, Natalya Zubavichene . The reporting of accidents and emergencies. Plans and procedures for emergency situations. Dividing to 4-5 groups and work with groups. Solving situational problems to ensure biosafety. Moderators: M.Azayev, T.Ilyicheva, D.Franz, S. Netesov, J.Leduc, J.Silva
12 ³⁰ p.m.	Lunch.
2 ⁰⁰ – 4 ³⁰ p.m.	Dividing to 3 groups and work with groups. Discussions and solving situational problems to ensure biosafety. Moderators: M.Azayev, T.Ilyicheva, D.Franz, S.Netesov
4 ³⁰ – 4 ⁵⁰ p.m.	Coffee break
4 ⁵⁰ – 6 ⁴⁰ p.m.	Brief reports of participants from Central Asian countries on outbreaks of relevant diseases and other instructive cases from practice.
Wednesday (Day 3)	
8 ³⁰ a.m.	Group 1. RT-PCR procedure: preparation of samples and RNA extraction. RT-PCR method for detection of influenza virus RNA. V.A. Ternovoy, A.N. Shikov, T.N. Ilyicheva (theory and practice) . Group 2. Excursion to the Vivarium of the Institute of Cytology and Genetics. Group 3. Epidemiological exercise.
11 ⁰⁰ a.m.	Coffee break.
11 ³⁰ a.m.	Group 2. RT-PCR procedure: preparation of samples and RNA extraction. RT-PCR method for detection of influenza virus RNA. V.A. Ternovoy, T.N. Ilyicheva, A.N.Shikov (theory and practice) . Group 3. Excursion to the Vivarium of the Institute of Cytology and Genetics. Group 1. Epidemiological exercise.
1 ³⁰ p.m.	Lunch.
2 ³⁰ – 4 ⁰⁰ p.m.	Group 1. Excursion to the Vivarium of the Institute of Cytology and Genetics. Group 2. Epidemiological exercise. Group 3. RT-PCR procedure: preparation of samples and RNA extraction. RT-PCR method for detection of influenza virus RNA. V.A. Ternovoy, T.N. Ilyicheva, A.N.Shikov (theory and practice) .
4 ⁰⁰ – 5 ⁰⁰ p.m.	Vladimir Ternovoy, Alexandr Shikov . Registration and interpretation of results of RT-PCR for detection of influenza virus RNA: the experience of the WHO laboratory network.
5 ⁰⁰ – 6 ⁰⁰ p.m.	Stanislav Sorochenko . Disinfection and sterilization. Decontamination of biological safety cabinets

	and the vivarium. Chemical and thermal disinfection and sterilization. Waste disposal. Incineration.
	Thursday (Day 4)
8 ³⁰ a.m.	David Franz. “Integration of Biosafety/Biosecurity with Responsibility of Researchers in Life Sciences”
9 ³⁰ a.m.	Roundtable discussion: biosafety problems in clinical, laboratory and scientific practice. Specialist from the USA, Russia and Central Asian countries. Moderators: Sergey Netesov and David Franz
10 ³⁰ a.m.	Coffee break
11 ⁰⁰ a.m.	Lyudmila Bakulina. Main principles of transportation of infectious materials. International transportation regulations. Basics of triple packaging. Procedures for inactivation of spilt material.
11 ³⁰ a.m.	Assessment of conformity of laboratory room layouts with biosafety regulations (attendees analyze the location of the laboratory rooms in their laboratories) Moderators: Nadezda Yun, David Franz, Sergey Netesov
12 ³⁰ p.m.	Lunch.
2 ⁰⁰ – 3 ³⁰ p.m.	Valery Loktev. The problems of imported zoonotic infections. Emerging infections in the Central Asia countries.
3 ³⁰ – 4 ⁴⁰ p.m.	Tatyana Ilyicheva. Orthomyxoviruses (epidemiology and diagnostics).
4 ⁴⁰ – 5 ¹⁰ p.m.	Coffee break
5 ¹⁰ – 5 ³⁰ p.m.	Mamedyar Azayev. Training in biosafety: Educational activities of SRC VB Vector.
5 ¹⁰ – 5 ³⁰ p.m.	Summing up the Workshop activities. Delivery of certificates. David Franz, Consultant and Professor, University of Kansas Mamedyar Azayev, Head of Biosafety Education Unit at the SRC VB “Vector” Sergey Netesov, Vice-Rector (Research) at NSU
7 p.m.	Farewell Lunch
	Friday (Day 5)
8 ⁰⁰ - 9 ⁰⁰ a.m.	Breakfast
10 ⁰⁰ a.m.	Excursions and departure

The following normative documents were used to develop the Program:

- “Laboratory Biosafety Manual”, WHO, 3rd Edition, Geneva, 2004.
- Sanitary and Epidemiological Rules “Safety of work with microorganisms of 1-2 groups of pathogenicity (danger)”. SR 1.3.1285-03.
- Sanitary Rules “Safety of work with microorganisms of 3-4 groups of pathogenicity and helminths”. SR 1.3.2322-08.
- “The procedure for registration, storage, transfer and transport of microorganisms of 1-4 pathogenicity groups”. SR 1.2.036-95.