

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 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 laboratory biosafety. Implementation of biosafety principles in clinical medicine.
11 ⁰⁰ a.m.	Coffee break.
11 ³⁰ a.m.	Larissa Uryutova . Biosafety Level 3 (purpose, 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.	Anna Demina . 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)	
9 ⁰⁰ a.m.	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 ³⁰ a.m.	Coffee break.
11 ⁰⁰ a.m.	Natalya Zubavichene . The reporting of accidents and emergencies. Plans and procedures for emergency situations.
12 ³⁰ p.m.	Lunch.
2 ⁰⁰ – 4 ³⁰ p.m.	David Franz . Laboratory acquired infections and ways to reduce them. David Franz . Survey lecture on the Galveston National Laboratory, Texas, USA.
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. – 1 ³⁰ p.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.
11 ⁰⁰ a.m.	Coffee break.
11 ³⁰ a.m.	Sergey Netesov . Bioethical problems in microbiology and biotechnology. Sergey Netesov . Interesting facts in modern virology.
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. 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. Cleanup of laboratory materials. Decontamination of biological safety cabinets and the vivarium. Chemical and thermal

	disinfection and sterilization. Waste disposal. Incineration.
	Thursday (Day 4)
9 ⁰⁰ a.m.	David Franz. “Integration of Biosafety/Biosecurity with Responsibility of Researchers in Life Sciences”
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 ⁴⁵ a.m.	Dadid Franz. Assessment of conformity of laboratory room layouts with biosafety regulations.
12 ³⁰ p.m.	Lunch.
2 ⁰⁰ – 3 ³⁰ p.m.	Valery Loktev. The problems of imported zoonotic infections. Emerging infections in the Central Asian countries.
3 ³⁰ – 4 ⁴⁰ p.m.	Tatyana Ilyicheva. Influenza pandemics: past, present and future.
4 ⁴⁰ – 5 ¹⁰ p.m.	Coffee break.
5 ¹⁰ – 6 ⁴⁰ p.m.	Mamedyar Azayev. Training in biosafety: Educational activities at SRC VB Vector.
	Friday (Day 5)
9 ⁰⁰ a.m.	Roundtable discussion: biosafety problems in clinical, laboratory and scientific practice. Specialists from the USA, Russia and Central Asian countries. Moderators: Sergey Netesov, David Franz and Nadezhda Yun
10 ³⁰ a.m.	Coffee break.
11 ⁰⁰ a.m.	Summing up the Workshop activities. Delivery of certificates. Mamedyar Azayev, Head of Biosafety Education Unit at the SRC VB “Vector” Sergey Netesov, Vice-Rector (Research) at NSU David Franz, Consultant and Professor, University of Kansas Nadezhda Yun, Senior Researcher at the Galveston National Laboratory, USA
12 ⁰⁰ a.m.	Farewell Lunch

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.