



**Strengthening capacities of influenza laboratory experts: WHO practical course on Influenza Virology**  
**Saint Petersburg, the Russian Federation 16-20 May 2011**

## Programme

### May 16, Monday.

Training Room, Bldg. B, 1 Floor

10:00. Welcome, Background, purpose and expected outcome of the training (D.I. Pereyaslov - WHO regional office for Europe)

10.30-11.30. **Lecture 1.** Global situation update and priorities for influenza surveillance (Prof. A. Sominina)

11.30-11.40. Coffee-break

11.40-12.20. **Lecture 2.** The results of the sentinel influenza surveillance in Russia (EA. Smorodintseva)

12.20-13.00. **Lecture 3.** Cell cultures for isolation of influenza virus. Subculturing of the MDCK cells (T.D. Smirnova).

*13-14 hr. - Lunch (Bldg. A, 1st floor)*

Practical session 1 (3 Floor, Bldg. B).

14.00-15.30 – Clean cell passage (MDCK), counting and cryo-preservation of cells, preparation of tissue culture flasks for virus isolation (T.D. Smirnova).

15.30-15.40. Coffee-break

15.40-17.00 .Continuation of work on cell passage (MDCK), counting and cryo-preservation of cells, preparation of tissue culture flasks for virus isolation (T.D. Smirnova)

### May 17, Tuesday

Training Room, Bldg. B, 1 Floor

**10.00-11.00. Lecture 4.** Collection and transportation of samples and isolation of influenza viruses (T.M.Gudkova).

Practical session 2 (3 Floor, Bldg. B).

11.00.-13.00. Microscopic observation of cell cultures and assessment of a monolayer (TD Smirnova) (coffee-break :11.00-11.10)

*13-14 hr. Lunch (Bldg.A, 1st floor)*

Practical session 3 (6 Floor, Bldg. B, left wing).

14.00-16.00. Influenza virus isolation (T.M. Gudkova) (coffee-break 15.20-15.30)

16.00-17.00. **Lecture 5.** (Training room, Bldg. B). Influenza virus typing and subtyping using hemagglutination inhibition test (N.I. Konovalova).

### **May 18, Wednesday.**

Practical session 4 (6 Floor, Bldg. B, left wing).

10.00-13.00. Antigenic analysis and identification of encrypted viruses by HAI (N.I. Konovalova) (coffee-break 11.30-11.40)

*13.00-14.00. Lunch (Bldg.A, 1st floor)*

14.00-15.50. Continuation of practical session 4. (N.I. Konovalova).

15.50-16.00. Coffee-break

16.00-17.00. Reading of the results of HAI , Q&A session (N.I. .Konovalova).

### **May 19, Thursday.**

**Lecture 6** (training room, Bldg. B).

10.00-11.30. Characteristics of influenza epidemics 2009-2010 and 2010-2011 in Russia: the results of virus isolation and antigenic characterizations of strains (M.Yu. Eropkin).

11.30-11.40 Coffee-break

11.40-13.00. Report of the results of the antigenic analysis of encrypted viruses conducted by the training group (Konovalova N.I.)

*13-14 hr. Lunch (Bldg, 1st floor)*

Practical session 5.

14:00-17:00. Microscopic investigation of cell cultures infected by influenza viruses (T.M. Gudkova, D.M. Danilenko) (coffee-break 15.30-15.40.)

### **May 20, Friday**

**Lecture 7** (training room, Bldg. B).

10:00-11:00. Features of the 2009 influenza pandemic (H1N1) 2009 virus isolation (D.M. Danilenko)

Practical session 6.

11.00-11.15. Coffee-break

11.15-13.00. Observation of cells for CPE in infected cultures. Preparation of red blood suspension and haemagglutination assay for virus HA titre determination (T.M. Gudkova, D.M. Danilenko).

*13.00-14.00 Lunch (Bldg.A, 1st floor).*

14.00-15.20. Continuation of practical session 6 (T.M. Gudkova, D.M. Danilenko).

15.20-15.30. Coffee-break

15.30-16.30. Wrap-up discussion (D.I. Pereyaslov, A.A. Sominina, M.Yu. Eropkin, T.M. Gudkova, N.I. Konovalova, D.M. Danilenko, T.D. Smirnova).

16.30-17.00. Closure of the training. Presentation of the Certificates of participation