

# New Trends in Infectious Diseases Nouvelles perspectives dans le domaine des maladies infectieuses

Lyon – France  
Mercure Grand-Hotel Saxe Lafayette  
26 - 28 November 2008



SCIENCE & TECHNOLOGY  
CENTER IN UKRAINE

Organized by  
The National Institute of Health and Medical Research (Inserm)  
The International Science and Technology Center (ISTC), and  
The Science and Technology Center in Ukraine (STCU)

*With the support of the European Commission*



## Program

### Wednesday 26 November 2008

11:45 – 13:00 Lunch Buffet, registration

13:00 – 13:15 Welcome

13:15 – 18:45 Session 1: Public Health, Epidemiology, and Disease Surveillance

### Thursday, 27 November 2008

9:00 – 11:05 Session 2: Drug Resistant Infectious Diseases

11:30 – 14:55 Session 3: MDR-TB: Characterization and Diagnostics

14:55 – 17:55 Session 4: MDR-TB: Vaccines, Drug Design and Development

18:00 – 19:10 Session 5: Zoonoses

19:15 – 19h30 Conclusion of Seminar

### Friday, 28 November 2008

9:00 – 12:00 Industrials partnering workshop / visit to high security L4 laboratory, Lyon Biopôle

13:00 – 14:00 Lunch Buffet, end of the meeting

## Wednesday, 26 November 2008

11h45-13h00 **Lunch buffet, Registration**

13h00-13h15 **Welcome**

André Syrota, General Director, Institut National de la Santé et de la Recherche Médicale, France

Adriaan van der Meer, Executive Director, International Science and Technology Center, Russian Federation

### **SESSION 1 - Public Health, Epidemiology, and Disease Surveillance**

**Chairmen: Jean-François Delfraissy and Ivan Dyatlov**

13h15-13h35 **Surveillance of Infectious Diseases in France**

Anne Gallay, Institute of sanitary vigilance, France  
(20 minutes presentation, 5 minutes questions)

13h40-14h05 **Organization of Surveillance and Laboratory Diagnostics of Infectious Disease in the Russian Federation**

Ivan Dyatlov, Federal Service of Surveillance in the Field of Consumer Right protection & Human Welfare, Moscow, Russian Federation  
(25 minutes presentation, 5 minutes questions)

14h10-14h35 **Ukraine: Strengthening of the Epidemiological Surveillance System Through National Programmes and International Cooperation**

Sergey Pozdnyakov, Ukrainian I.I.Mechnikov Anti-Plague Research Institute, Odessa, Ukraine  
(25 minutes presentation, 5 minutes questions)

14h40-15h00 **TBD**

Vladimir Nikiforov, Institute of Competency Improvement - Federal Medico-Biological Agency (FMBA), Moscow, Russian Federation  
(20 minutes presentation, 5 minutes questions)

15h05-15h25 **Disease Surveillance of Multi-Drug Resistance of M. Tuberculosis in the Kyrgyz Republic - Use of Biochips with Pulmonary TB Patients**

Almaz Aldashev; Institute of Molecular Biology and Medicine, Bishkek, Kyrgyz Republic  
(20 minutes presentation, 5 minutes questions)

15h30-15h50 **Implementation of New Approaches for Diseases Surveillance in Georgia with International Collaboration**

Paata Imnadze, Georgian National Center for Disease Control, Tblisi, Georgia  
(20 minutes presentation, 5 minutes questions)

15h55-16h15 **Surveillance of Rickettsial Diseases in Ukraine (BTRP proposal P364)**

Iryna Kurhanova, Chief of Laboratory, Lviv Research Institute of Epidemiology and Hygiene, Lviv, Ukraine  
(20 minutes presentation, 5 minutes questions)

16h20-16h40 **Biological Peculiarities of Causative Agents of some Bacteriological Infections in Kazakhstan (Y.pestis & H.pylori)**

Pavel Deryabin, Kazakh Scientific Center for Quarantine and Zoonotic Diseases, Almaty, Republic of Kazakhstan  
(20 minutes presentation, 5 minutes questions)

16h45-17h05 **Coffee Break**

- 17h05-17h25 Overview on TB in the WHO European Region**  
Dennis Falzon, OMS, Geneva, Switzerland  
*(20 minutes presentation, 5 minutes questions)*
- 17h30-17h50 Biomarkers in Tuberculosis**  
Steffen Stenger, Ulm University, Germany  
*(20 minutes presentation, 5 minutes questions)*
- 17h55-18h15 Epidemiological and Epizootical Features and Organization of Sanitary and Epidemiological Surveillance of Tuberculosis in Tajikistan**  
Aziza Pirova, Tajik State Medical University, Dushanbe, Republic of Tajikistan  
*(20 minutes presentation, 5 minutes questions)*
- 18h20-18h40 ISTC Support for the Creation of a Research Center for TB Clinical Trials**  
Sergey Borisov, Moscow Medicine Academy / Research Center for Tuberculosis Clinical Trials, Moscow, Russian Federation  
*(20 minutes presentation, 5 minutes questions)*
- 18h45 Summary of first session by chairs**

## **Thursday, 27 November 2008**

### **SESSION 2 - Drug Resistant Infectious Diseases**

**Chairmen: Jérôme Etienne and Sergei Sidorenko**

- 9h00-9h20 Antibiotic Resistance : Antibiotics and Bacteria**  
Laurent Gutmann, Inserm and Microbiology department, Hopital Georges Pompidou, Paris, France  
*(20 minutes presentation, 5 minutes questions)*
- 9h25-9h45 Overview of Emerging Antimicrobial Resistance in Russia**  
Sergei Sidorenko, National Agency for Clinical Pharmacology and Pharmacy, Moscow, Russian Federation  
*(20 minutes presentation, 5 minutes questions)*
- 9h50-10h10 Bacteriophages for Treatment of Diseases Caused by Antibiotic Resistant Pathogens**  
Mzia Kutateladze, Eliava Institute of Bacteriophage, Microbiology and Virology, Tbilisi, Georgia  
*(20 minutes presentation, 5 minutes questions)*
- 10h15-10h35 Induction of Organism's Protective Resources to Chemical and Bacterial Toxins**  
Arif Mekhtiev, Institute of Physiology n.a. A.I.Karaev, Baku, Azerbaijan  
*(20 minutes presentation, 5 minutes questions)*
- 10h40-11h00 Benefits of Joining the ISTC's Partner Program**  
Albert Gozal, International Science and Technology Center, Moscow, Russian Federation  
*(20 minutes presentation, 5 minutes questions)*
- 11h05-11h30 Coffee Break**

### **SESSION 3 – MDR-TB: Characterization and Diagnosis**

**Chairmen: Brigitte Gicquel**

- 11h30-11h50 Overview on Multi-drug Resistance Tuberculosis,**  
Vincent Jarlier, Laboratoire de Bactériologie, Faculté de Médecine Pitié-Salpêtrière, Paris, France  
*(20 minutes presentation, 5 minutes questions)*
- 11h55-12h15 Genetic Diversity and Population Structure of M. Tuberculosis Strains Circulating in Central Russia**  
Igor Shemyakin, State Research Center of Applied Microbiology and Biotechnology, Obolensk, Russian Federation  
*(20 minutes presentation, 5 minutes questions)*
- 12h15-12h35 Diagnosis of MDR-TB**  
Elvira Richter, National Reference Center for Mycobacteria, Borstel, Germany  
*(20 minutes presentation, 5 minutes questions)*
- 12h40-13h00 New Biophotonic Method and Nanostructure Sensor Instrument for Diagnostics of Tuberculosis Active Form**  
Mykola Rozhitskii, Kharkiv National University of Radio Electronics, Kharkiv, Ukraine  
*(20 minutes presentation, 5 minutes questions)*
- 13h00-14h30 Lunch**

- 14h30-14h50 Gel-based Biochips for Clinical Applications: Detection of Pathogenic Bacteria and Viruses, Drug-resistant Species Identification, Analysis of Human Genome Polymorphisms**  
Alexander Zasedatelev, Engelhardt Institute of Molecular Biology, Russian Academy of Sciences, Moscow, Russian Federation  
(20 minutes presentation, 5 minutes questions)

## **Session 4 – MDR-TB: Vaccines, Drug Design and Development**

**Chairmen: Alain Baulard and Alexander Apt**

- 14h55-15h15 Overview TB-VAC, EU Project: New Candidates for TB Vaccines**  
Brigitte Gicquel, Pasteur Institute, Paris, France  
(20 minutes presentation, 5 minutes questions)
- 15h20-15h40 Refined Mouse Models of Vaccination Against TB Infection**  
Alexandr Apt, Central Tuberculosis Research Institute, Moscow, Russian Federation  
(20 minutes presentation, 5 minutes questions)
- 15h45- 16h05 ATP synthase, an exciting new target for TB treatment**  
Koen Andries, University of Antwerp, Belgium  
(20 minutes presentation, 5 minutes questions)
- 16h10-16h30 Synthesis of Compounds with Antituberculous Activity**  
Dmytro Lytvyn, Institute of Food Biotechnology and Genomics, Kyiv, Ukraine  
(20 minutes presentation, 5 minutes questions)
- 16h35-17h00 Coffee Break**
- 17h00-17h20 Novel Indol-containing Condensed Tetracyclic Systems with Promising High Antitubercular and Antiviral Activity: Synthesis and Screening**  
Shota Dgebuadze, Georgian Technical University, Tbilisi, Georgia  
(20 minutes presentation, 5 minutes questions)
- 17h25-17h35: Boosting antituberculous drugs to improve treatment compliance**  
Alain Baulard, Pasteur Institute, Lille, France  
(10 minutes presentation, 5 minutes questions)
- 17h40-17h55: Understanding the evolutionary success of the TB bacillus: a comparative genomics approach**  
Philipp Supply, Pasteur Institute, Lille, France  
(10 minutes presentation, 5 minutes questions)

## **Session 5: Zoonoses**

**Chairmen: Florence MORFIN, and Dimitri Lyov**

- 18h00-18h20 Flu, Avian Flu and Emerging Aspects (H1N1 Resistance)**  
Florence MORFIN, Lyon, France  
(20 minutes presentation, 5 minutes questions)
- 18h25-18h45 Circulation of Influenza viruses in North Eurasia - Global Consequences (Ecology, Evolution, Drug Resistance, Virulence)**  
Dimitri Vlov, Ivanovsky Institute of Virology, Moscow, Russian Federation  
(20 minutes presentation, 5 minutes questions)
- 18h50-19h10 Molecular Epidemiology of Influenza Viruses in Russia in 2005-2008. Development of New Influenza Vaccines.**  
Maria Pisareva, Research Institute of Influenza, St. Petersburg, Russian Federation  
(20 minutes presentation, 5 minutes questions)
- 19h15 Conclusions of Seminar: André Syrota, Jean-François Delfraissy, Michel Zayet and Albert Gozal**

## **Friday, 28 November 2008**

**Location :** Tour Inserm.

**9h00-10h00    General presentation, High Security Laboratory Level 4**  
Hervé Raoul, Head of the P4 laboratory

**10h00-12h00    Industrials partnering workshop**  
Chairman Yves Laurent, Directeur du Lyon Biopôle

**10h00-10h15    Biopôle presentation**  
Yves Laurent, Head of the Biopôle

**10h20-10h45    Sanofi-Aventis**  
Cyrille Van Poucke

**10h50-11h15    BioMerieux**  
Marc Rodrigue

**11h20-11h35    Protéines expert**  
Tristan Roussel

**11h40-12h05    Merial**  
Jean-Christophe Audonnet

**12h10-12h35    Becton Dickinson**  
Philippe Laurent

**12h40-12h55    NovoCIB**  
Larissa Balakireva

**13h00 – 14h00 Lunch**