

# Biological Threat Prevention - Approaches for Increased International Co-operation

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## About ISTC

The International Science and Technology Center (ISTC) is an intergovernmental organization connecting scientists from Russia, Georgia and other countries of the Commonwealth of Independent States (CIS) with their peers and research organizations in Canada, EU, Japan, Republic of Korea, Norway and the United States.

ISTC facilitates international science projects and assists the global scientific and business community to source and engage with Russian and CIS institutes that develop or possess an excellence of scientific know-how.

## Science and Technology in Prevention of Biological Threats

This Targeted Initiative focuses on selected pathogens of concern and infectious diseases to foster development of:

- Improved Detection
- Improved Containment
- Emergency Response Measures

International projects and workshops in biothreat prevention:

- Foster improved coordination
- Strengthening the scientific base
- Enable enhanced international engagement

## Workshops



Example: Workshop Biological Threat Prevention – The Global Food Supply Chain  
Held: September 8-10, 2010, Ottawa, Canada  
Organised by ISTC and CFIA (Canadian Food Inspection Agency). Supported by Global Partnership Program Canada

## Conferences



Example: Prof. Firuza Nasyrova and Prof. Astghik Pepoyan (Tajikistan and Armenia delegates of steering committee of the Targetted Initiative Science and Technology in the Prevention of Biological Threats) with Robert Griffin Animal and Public Health Inspection Service (APHIS)/USDA attending the Conference Global Biosecurity 2010 Held: February 28<sup>th</sup> -March 3<sup>rd</sup> 2010, Brisbane, Australia

## Training



Example: Training run by TEMPO (Non Commercial Partnership "Center of Modern Medical Technology" Technology, Education, Marketing, Production and Optimization) supported by Global Partnership Program, Canada



## Call for Proposals

Supported by:  
Global Partnership Program, Canada; Japanese Ministry of Foreign Affairs; U.S. State Dept. U.S. Dept. of Energy;

Recipients: Armenia, Georgia, Kazakhstan, Kyrgyzstan and Tajikistan

## Collaboration

Example: Concept development of international Collaborative project entitled "**The Great Silk Road – as a Target for Biological Threats of the Global Food Supply Chain**" involving animal, plant and medical agencies looking at risk assessment and mitigation in the food supply with collaboration from scientists based in Tajikistan, Kyrgyzstan and Armenia working with Canadian Food Inspection Agency, Global Partnership Program Canada and U.S. Dept. of Energy

Steering committees from both supporters and recipients selected the following Key Foci:

- Examination of field deployable equipment and tools, from the perspective of ease of use, ruggedness, shelf-life, availability of reagents, requirements for peripheral support/equipment (cost-benefit analysis)
- Application of nanotechnology and novel techniques for the rapid, specific and sensitive detection of biothreat agents
- Development of novel technologies to identify, at the Family or Genus level, the pathogenic agents that cannot be identified by ordinary or common methods.
- Detection and monitoring pathogenic agents from environmental samples taken from soil and water.

