

Countering Biological Threats Across the Globe

Overview

Sandia National Laboratories develops innovative, sciencebased solutions to the most challenging national and global security problems.

Sandia's Center for Global Security and Cooperation reduces terrorism and WMD proliferation threats to US national security through global technical engagement.

The International Biological Threat Reduction (IBTR) program, a division of Sandia's Center for Global Security and Cooperation, reduces biological threats by promoting safe, secure, and responsible use of dangerous biological agents. IBTR introduces sustainable, robust, and affordable solutions that are tailored to the needs of specific regions and facilities.

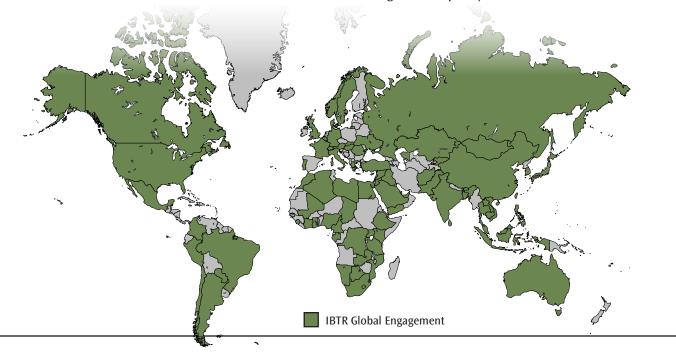
By using advanced technical resources, expertise, and a systems approach, IBTR works to improve 1) laboratory biorisk (biosafety and biosecurity) management and 2) infectious disease prevention, detection, and control. Actively engaged in countering biological threats since before the 2001 anthrax attacks, IBTR is regarded as the nation's leading expert in identifying and mitigating biological threats around the world.

IBTR Goals

- Promote the responsible use of biological agents, equipment, and expertise globally
- Strengthen capacities to safely, securely, and responsibly detect, handle, and control biological agents
- Improve understanding and management of the risks associated with accidental and deliberate misuse of biological agents
- Encourage global partnership and adherence to international biorisk management standards

Global Engagement

IBTR, in its effort to improve global biological risk management, has current or previous engagements with dozens of countries. By interacting with US agencies, partner country governments, and other international collaborators, IBTR develops strategies that meet local, regional, and global needs. Through training workshops, laboratory walkthroughs, tabletop discussions, and faceto-face interactions, IBTR strengthens the world's biorisk management capacity.



biosecurity.sandia.gov/ibtr

Conducting risk assessments at • Performing country and regional Training scientists, laboratory biomedical and bioscience research studies that focus on highly managers, policymakers, and law facilities worldwide infectious diseases and the bioscience technologies, expertise, Assisting in the design of new biological and infrastructure to combat those laboratories, taking into account biorisk • Curating a library of biorisk diseases management best practices that is free and available to • Prioritization of biological threats Implementing laboratory biorisk worldwide, within a country, or management systems at already existing within a region using robust, facilities Training implementation strategies, transparent, and reproducible including regional training centers and train-the-trainer programs methodology • Developing risk assessment Partnering with universities to methodologies for laboratory biorisks Laboratory Biorisk Management Analysis International Policy, Regulatory, & Guidelines Support Infectious Disease Control & Diagnostics Applied Biosafety Journal of the **Collaborating Cente** for Laboratory Biorisk Biological Management Collaborating Center for the World Organisation for Animal Health · Helping to develop national and international biorisk Engaging with public and veterinary health professionals management policies, regulations, standards, and to enhance awareness of biological threats guidelines Engaging key global disease surveillance stakeholders to · Reviewing and drafting biorisk management procedures enhance detection, reporting, and response efforts and plans for partner countries Conducting exercises and workshops in emergency · Assisting countries in the development of national preparedness and response biosafety associations Designing and implementing modern molecular Authoring publications in biological threat reduction and diagnostics to enhance infectious disease detection and biorisk management reduce reliance on live biological agents

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