



Biosecurity Challenges of the Global Expansion of High-Containment Biological Laboratories

Board on Life Sciences, Committee on Anticipating Biosecurity Challenges of the Global Expansion of High-Containment Biological Laboratories, Committee on International Security and Arms Control, Division on Earth and Life Studies, Policy and Global Affairs, National Academy of Sciences, National Research Council

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During July 10-13, 2011, 68 participants from 32 countries gathered in Istanbul, Turkey for a workshop organized by the United States National Research Council on Anticipating Biosecurity Challenges of the Global Expansion of High-containment Biological Laboratories. The United States Department of State's Biosecurity Engagement Program sponsored the workshop, which was held in partnership with the Turkish Academy of Sciences. The international workshop examined biosafety and biosecurity issues related to the design, construction, maintenance, and operation of high-containment biological laboratories- equivalent to United States Centers for Disease Control and Prevention biological safety level 3 or 4 labs. Although these laboratories are needed to characterize highly dangerous human and animal pathogens, assist in disease surveillance, and produce vaccines, they are complex systems with inherent risks.

Biosecurity Challenges of the Global Expansion of High-Containment Biological Laboratories summarizes the workshop discussion, which included the following topics:

- Technological options to meet diagnostic, research, and other goals;
- Laboratory construction and commissioning;
- Operational maintenance to provide sustainable capabilities, safety, and security; and
- Measures for encouraging a culture of responsible conduct.

Workshop attendees described the history and current challenges they face in their individual laboratories. Speakers recounted steps they were taking to improve safety and security, from running training programs to implementing a variety of personnel reliability measures. Many also spoke about physical security, access controls, and monitoring pathogen inventories. Workshop participants also identified tensions in the field and suggested possible areas for action.

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