

GHS2026 Conference Workshops

Day One - Tuesday 9 2026, 1:45pm-3:45pm

Room 403

AI-enabled Biotech Crisis & Capacity: Responding to AI-enabled Biological Threats and Building LMIC Governance Roadmap

Aim & Objectives:

1. Strengthen understanding of emerging AI-Bio risks: Participants will gain clarity on how AI can accelerate biological design, complicate surveillance, and generate novel health security vulnerabilities.
2. Stress-test decision systems through crisis simulation: Participants will identify systemic gaps in national and international response frameworks while navigating uncertainty and cross-sector coordination challenges.
3. Build LMIC-appropriate governance pathways: Participants will co-develop AI-Bio Governance Roadmaps that outline feasible interventions, regulatory priorities, and capacity-building opportunities for resource-constrained settings.

Target audience:

This workshop is intended for policymakers, public health practitioners, biosafety and biosecurity officials, national regulators, civil society representatives, and researchers seeking to understand and manage the emerging risks of AI-enabled biotechnology. It is particularly suited for stakeholders involved in outbreak response, biosurveillance, laboratory oversight, national security, and bioeconomy development.

Proposed geographic

While the workshop is open to all global health conference delegates, its design places special emphasis on the needs and constraints of low- and middle-income countries in Asia, Africa, and Latin America, where AI-Bio capability growth is accelerating but governance capacity remains uneven. The exercises and outputs explicitly focus on LMIC realities, offering tools and roadmaps that can be adapted across diverse national contexts. Through crisis immersion and collaborative planning, this workshop equips participants with actionable insights and governance strategies to prepare their institutions and their regions for the next generation of AI-enabled biological threats.