

GHS2026 Conference Workshops

***Day One - Tuesday 9 2026, 1:45pm-6pm (4 Hour Workshop)
Room 305***

Bringing Genomics Closer to Communities: Decentralized Approaches to Outbreak Intelligence

Aim:

This session will explore strategies and operational frameworks for strengthening decentralized outbreak preparedness and response capacities, including the design and implementation of sustainable, multisectoral-oriented genomic surveillance systems. Through expert-led technical discussions, structured working sessions, and scenario-based interactive exercises, participants will identify practical pathways to achieve a coordinated, networked model of preparedness and response that empowers rapid local action while maintaining national, regional, and global connectivity.

Objectives:

- Understand how genomic surveillance can strengthen outbreak detection, response, and containment, including the seven core pillars of genomic surveillance systems.
- Build practical skills to apply genomic data for public health action, including interpreting simplified genomic outputs (eg, phylogenetic clustering, AMR markers) and using real data to create surveillance risk maps and preparing a high-level 12–24-month implementation roadmap tailored to participants' own contexts and priority infectious diseases.
- Leave the session equipped to implement and sustain genomic surveillance initiatives, with the knowledge, tools, and peer connections needed to establish or enhance systems.

Target audience:

This workshop is intended to provide national and subnational public health institute leaders, regional and global health security partners, surveillance and laboratory network coordinators, emergency operations and field response teams, policymakers, and donors with information and training on multi-hazard risk mapping for improved surveillance sampling.

Proposed geographical or population focus:

This workshop is open to any conference delegate/worldwide.

