

## **GHS2026 Conference Workshops**

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

***Room 303***

### **Cyber-Biosecurity for High-Risk Laboratories: Practical Tools to Strengthen Institutional Resilience**

**Aim:**

Sention has developed and delivered tailored cyber-biosecurity capacity-building programs across more than 22 countries, driven by our unique combination of cyber threat intelligence, laboratory security, and bioterrorism-prevention expertise. Our workshops, supported by partners such as Health Security Partners and CRDF Global, have strengthened institutional resilience in high-risk laboratory environments by integrating practical cyber risk management with biosafety and biosecurity principles. This experience positions Sention to deliver a highly relevant and impactful workshop in this rapidly emerging discipline. This workshop aims to strengthen global laboratory resilience by equipping participants with practical cyber-biosecurity knowledge and tools relevant to today's rapidly evolving threat environment.

**Objectives:**

- To provide an overview of the current cyber-biosecurity threat landscape, including the impacts of advancing AI-enabled technologies and emerging cyber-physical risks affecting high-risk laboratories.
- To introduce practical cyber-biosecurity risk assessment tools, covering data security for valuable biological materials, Know Your Collaborator (KYC) processes, and institutional maturity assessments, that can be directly applied within laboratory governance systems.
- To build awareness of common vulnerabilities across laboratory systems, data flows, digital platforms, and operational practices, enabling participants to identify weaknesses within their own institutions. A real-world case study from laboratories in Nigeria will be used.

**Target audience:**

This workshop is intended for laboratory managers, biosafety and biosecurity officers, IT and cybersecurity personnel supporting laboratory environments, public health authorities, policymakers, and global health security practitioners seeking practical tools to enhance cyber-biosecurity preparedness.

Proposed Geographical or Population Focus



The workshop is open to all conference delegates worldwide. It is designed to be relevant to any laboratory setting but will be especially beneficial for institutions operating high-risk, resource-limited, or rapidly modernising laboratories where cyber-enabled threats to diagnostics, data integrity, and research infrastructure are increasing.

