5V. Integrating AI into Biotechnology: A Biosecurity Risk Assessment Workshop (Part 2) – Embodied AI and Automation in Biorisk Management

October 7, 2025 | 11:00 am – 3:00 pm CDT
Virtual Professional Development Course

Instructors:
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🔍 Overview

As AI becomes increasingly integrated into laboratory operations and risk management, it presents both challenges and opportunities for improving safety and mitigating biological threats. This advanced workshop builds on last year's course, focusing on biosecurity risk assessment frameworks for AI-enabled systems, with a focus on embodied AI agents and automation. Drawing from recent advances, including the use of humanoid robotic systems with AI in high-containment environments, this course will combine theoretical foundations with hands-on applications. Attendees will engage in case studies and group exercises to assess biosecurity risks associated with AI-driven tools and systems in laboratory settings.

🧠 What You'll Learn

- **AI in Biotechnology -** Explore current AI technologies and their biotech applications
- **Biosecurity Risk Assessment –** Discuss key concepts: vulnerability, threat, consequence, and mitigation—tailored for AI systems
- **Case Studies & Scenarios -** Analyze real-world examples of AI in biotech by assessing associated risks and discussing appropriate mitigation strategies
- **Hands-On Risk Assessment -** Work in teams to evaluate a hypothetical AI system, identify vulnerabilities and threats, assess AI system maturity and automation, determine potential consequences and risk levels, and propose mitigation strategies

🗝 Objectives:

- Explain the integration of AI—including embodied AI agents into research and high-containment laboratories
- Identify novel biosecurity risks arising from AI-driven automation and predictive modeling in biotechnology
- Apply an AI-tailored biosecurity risk assessment framework accounting for automation maturity, human-agent interactions, and real-world risk mitigation scenarios

✅ Suggested Background: Biosafety and Biosecurity Training Course (BBTC®), Fundamentals of Biosafety, Principles and Practices of Biosafety® (PPB), Risk Assessment

🎯 Who Should Attend: All Safety Professionals, All Biosafety Professionals

📝 Course Logistics: Course is one 4-hour session. Attendees will need to log on 15 minutes prior to the start time. There will be a 15-minute break during the course. To receive credit and a certificate, attendees must attend the session and complete or access all course modules. The course materials are for registered participants only.

🏷 Course Fees: ***ABSA Member: $300 Non-member: $390**
* To receive the ABSA member rate, participants must be current ABSA members during the training year. Fees include course handouts, access to the ABSA International training site, and 4 hours of expert-led interactive instruction.

📜 Credits: This course has been approved for **0.5 CM points** toward RBP/CBSP recertification. *ABSA International is approved as a provider of continuing education programs in clinical laboratory sciences by the ASCLS P.A.C.E.® Program. This course is approved for **3.5 P.A.C.E.® contact hours**. Course access links are unique and for individual use only. ***Sharing is prohibited***. Duplicate logins or unregistered attendees will be removed from the webinar without a refund.

❓ Questions: Contact: Kari DeServi, MEd, Director of Education, ABSA Office, 866.425.1385 (toll free)
Email: education@absa.org

Registration Form

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*Name (First, Middle Initial, Last): _____
_____

*Organization:_____

*Address: _____

*City, State: Country: Zip/Postal Code: _____

*Telephone: _____

*E-mail: _____
(Please provide your preferred email address, which you frequently access)

Required information

Payment:

_____ABSA Members $300.00 USD
_____Nonmembers $390.00 USD

To receive the ABSA member rate, participants must be current ABSA members during the training year.

_____Visa _____ MasterCard _____ American Express

Card Number: _____
Expiration Date: _____ CVV: _____
Name on card: _____

To receive the ABSA member rate, participants must be current ABSA members during the training year. Confirmed, paid participants will receive course details a few days prior. Substitutions allowed with notice by 9/9/2025. Cancellations incur a 15% fee. Between 9/9/2025 and 9/16/2025, 50% refunds apply. No refunds after 9/16/2025.

Each participant will receive a unique, non-transferable link to access the course. These links are intended for individual use only. If multiple entries under the same name appear on the Zoom attendee list, or if unregistered names are detected, all such entries will be removed without refund. Sharing or unauthorized use of webinar links is strictly prohibited.

Register by phone:
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E-mail: education@absa.org

or On-line:
http://www.absa.org/