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# *Welcome*

**SNL Biosecurity Team**  
**Chemical & Biological Weapons Nonproliferation**  
**International Security Center**  
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# Course Overview

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- **Introduction to Laboratory Biosecurity**
  - Biosecurity aims to protect biological agents from theft and sabotage
  - Biosecurity must be integrated with biosafety
- **Biosecurity Risk Assessment**
  - Risk assessment and risk management key to developing a sustainable biosecurity program
- **Components of a Laboratory Biosecurity Program**
  - Physical security, personnel security, material control & accountability, transport security, information security, and program management
  - Graded implementation based on results of risk assessment

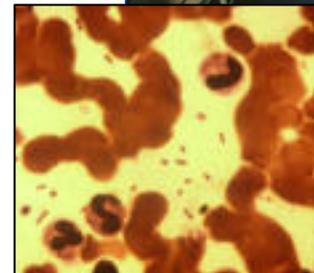
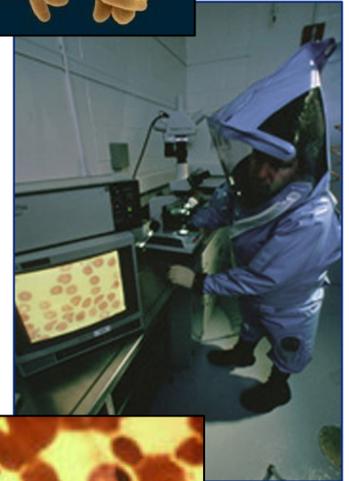
# Laboratory Biosafety and Biosecurity

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- **Laboratory Biosafety**
  - Objective: reduce or eliminate accidental exposure to or release of potentially hazardous agents
- **Laboratory Biosecurity**
  - Objective: protect biological agents against theft and sabotage by those who intend to pursue bioterrorism or biological weapons proliferation
- **Common strategy**
  - Implement graded levels of protection based on a risk management methodology
- **Control of certain biological materials is necessary, but *how* that is achieved must be carefully considered**
  - Biosecurity and biosafety should be integrated systems that avoid compromising necessary infectious disease research and diagnostics



*Francisella tularensis*



*Yersinia pestis*

# Resources

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- **[www.biosecurity.sandia.gov](http://www.biosecurity.sandia.gov)**
- **WHO Laboratory Biosafety Manual – 3<sup>rd</sup> edition**
  - **Chapter 9: Laboratory Biosecurity Concepts**
- **WHO Guidance on Laboratory Biosecurity – anticipated Fall 2005**
- **Biosafety in Bioscience and Medical Laboratories (BMBL) – 5<sup>th</sup> edition, anticipated Fall 2005**
- **Laboratory Biosecurity Handbook, CRC Press, forthcoming**
- **<http://hazmat.dot.gov>**

# Contact Information

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