

# Biosecurity Resource Toolbox

The Biosecurity resource toolbox is categorized into six themes that can be accessed by clicking on the text or icon, shown in the pie chart.

By clicking on each of the themes, a new window will open with the available biosecurity resources within that theme.

Each resource is described using a small introduction, and a link to the location where the resource can be found. This location can be a website, application, or a direct link to a specific document. For more information, send an email







Risk and threat assessment & management



### **Guidance & Best practices**

**Guidance & Best practices** 

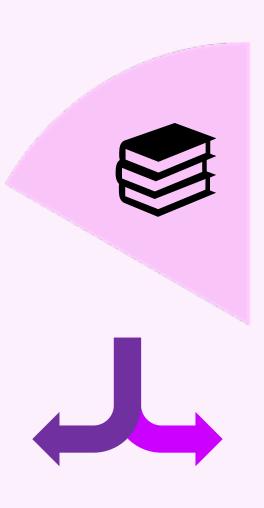
This category contains many resources describing Guidance and Best practices regarding Biosecurity.

Therefore, this category is separated into a part covering Guidance & Best practices on an institutional level, and a part that has an emphasize on the national level.

You can click on the icons representing institutional or national level to navigate to the corresponding resources









**National level** 



## **m** Institutional level

Awareness raising

Self Assessment

Risk and threat assessment & management

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The resources in this category will guide you to tools and documents that can help to setup Guidance documents and Best practices regarding biosecurity at an institutional level.

The resources available in this category are primarily intended for researchers and biosafety officers. However, other interested parties will find interesting information here as well.

## Guidelines for researchers on dual use and misuse of research

Guidelines for researchers on dual use and misuse of research

Institutions and funding bodies aim to raise researchers' operances of the issues telating to dual use and misuse of research or the institution to modie this appropriately. Researchers indeed have a legal and ethical abligation to prevent or mislagues as much as possible the risks and potential damage which may be caused by mislague use of their research resurts.

Guideline for Institutions and funding bodies who have the aim to raise researchers' awareness of the issues relating to dual use and misuse of research and help them to handle this appropriately.

To resource, click here

#### Proposed Framework for Oversight of Dual Use Research

ADVISORY
BOARD FOR
BIOSECURITY

Proposed Framework for the Oversight
of Dual Use Life Sciences Research:
Strategies for Minimizing the Potential
Misuse of Research Information







This dual use framework describes strategies for Minimizing the Potential Misuse of Research Information.

To resource, click here

#### Laboratory biosecurity guidance

Biorisk management

Laboratory biosecurity
guidance

September 2006

This latest document provides more detailed guidance on biosecurity within a biological laboratory and addresses its basic principles and best practices.

To resource, click here

### An introduction to biopreparedness

An introduction to biopreparedness



This book from CBB describes an effective way to investigate and respond to incidents involving hazardous biological substances, and offers some strategies for dealing with the aftermath.

To resource, click here

Biosecurity Challenges of the Global Expansion of High-Containment laboratories



An international workshop examined biosafety and biosecurity issues related to the design, construction, maintenance, and operation of high-containment biological

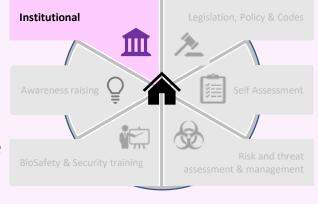
To resource, click <u>here</u>



## **m** Institutional level

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#### Handbook of Applied Biosecurity for Life Science Laboratories



It presents the basic components of applied biosecurity that are relevant to all laboratory employees.

To resource, click here

### OECD Best practice guidlines for biological resource centres



This report presents the outcome of discussions held by the OECD member and partner countries and presents the best practices of biological resource centres

To resource, click <u>here</u> En Espanõl, haga clic <u>aquí</u>

## Biological agents: Managing the risks in laboratories and healthcare premises



Guidlines on working in a laboratory with biological agents, containing information on legislation and requirements.

To resource, click <u>here</u>

### Clinical Laboratory preparedness and response guide



This guide was developed to assist laboratories by providing guidance on the responsibilities and practices that are recommended when dealing with biothreat agents.



# National level

Awareness raising

Self Assessment

Risk and threat assessment & management

Page 1/2



The resources in this category will guide you to tools and documents that can help to setup Guidance documents and Best practices regarding biosecurity at a National level. The resources available presented here are primarily intended for policy makers and biosafety officers. However, other interested parties will find interesting information here as well.

#### Governance of Dual Use Research in the Life Sciences



Summary of International workshop: The Governance of Dual Use Research in the Life Sciences.

To resource, click here

## Dual Use Research of Concern: A companion guide



Tools for the Identification, Assessment, Management, and Responsible Communication of Dual Use Research of Concern.

To resource, click here

# Guidelines for implementation of Action B2 EU CBRN Action Plan

# Guidelines for the implementation of Action B2 EU CBRN action plan

This document is a guide which was prepared in order to assist Member States to implement the B2 action and bring them into compliance with UNSCR1540 and BWTC

To resource, click here

## Responsible life sciences research for global health security



The purpose of this guidance is to inform Member States about the risks posed by accidents or the potential deliberate misuse of life sciences research.

To resource, click here

### An efficient and practical approach to biosecurity

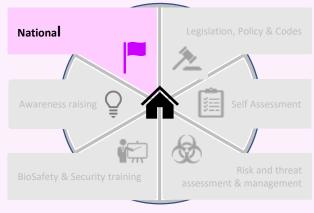


Book on the experiences of research and hard work on the preperation and implementation of the Biosecurity Law in Denmark to help other nations develop biosecurity laws



# National level

The resources in this category will guide you to tools and documents that can help to setup Guidance documents and Best practices regarding biosecurity at a National level. The resources available presented here are primarily intended for policy makers and biosafety officers. However, other interested parties will find interesting information here as well.





**UK Biological Security Strategy** 

UK Biological Security Strategy

Outline of UK Biosecurity Strategy: building resilience to health threats

To resource, click here

Recommendations for improving biosecurity measures



Recommendations for improving biosecurity measures for Spain, based on the BWTC and UNSCR1540

For English, click <u>here</u> En Espanõl, haga clic <u>aquí</u> Point of View: A transatlantic perspective on 20 emerging issues in biological engineering

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A transatlantic perspective on 20 emerging issues in biological engineering

Abstract Advances in biological engineering are likely to have substantial impacts on global society. To explore these potential impacts we can a further executing enterties to capture a range of perspectives on the opportunities and risks presented by biological engineering. We first identified 70 patential issues, and then used an invariant exploration of the execution of the

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To explore these potential impacts we ran a horizon scanning exercise to capture a range of perspectives on the opportunities and risks presented by biological engineering.

To resource, click <u>here</u>

Methods for collaboratively identifying research priorities and emerging issues in science and policy

Methods in Ecology and Evolution

(reled in Ecology and Evolution dec. 10.1111/j.2011-210X.2014.0090.X

(EVICW

Methods for collaboratively identifying research priorities and emerging issues in science and policy William J. Sutherland\*, Erica Fleishman\*, Michael B. Mascia\*, Juleo Pretty\*

\*Conservation Science Group, Department of Zoology, University of Cambridge, Centhridge CB2 3E.J. UK; \*Exen Scinari of Environmental Giornica & Management, BRIZ Ellison Indi, University of California, Suria Babora, CA 3015-3060, US; \*Commantals California Program, World Widlia Funt, I 202-2016 In Mr. Wallapton, CD 2000, ISA: \*Intendisciplinary Centra for Environment and Society, Department of Biological Simenous, Leitwanity of Essex, Collection Co. 403, UK; and \*Electroment Department, University of Year, Heinbilgon, CR 1970 SQD, UK

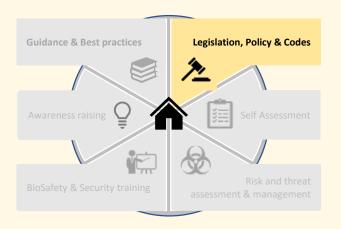
Summar

There is a widely recognized gap between the data generated by researchers and the informati
required by policy makers. In an effort to bridge the gap between conservation policy and scien
we have convened in several countries multities revues of policy makers, rescribes new and research.

Outline of a horizon scan and the method explained



## Legislation, Policy & Codes

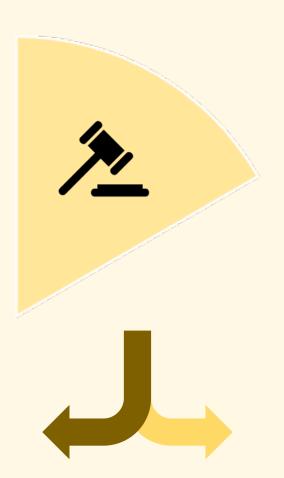


This category contains many resources regarding legislation, policies and codes (of conduct).

Therefore, this category is separated into a part covering Legislation, and a part that has an emphasize on policies and codes of conduct regarding Biosecurity.

You can click on the icons representing Legislation, or Policy & codes to navigate to the responding resources



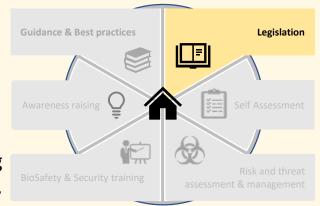








The resources in this category will guide you to tools that can help to draw up legislation regarding biosecurity. The resources available in this category are primarily intended for legislators, policy makers, management, and biosafety officers. However, other interested parties will find interesting information here as well.



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Council Regulation (EC) No 428/2009 on the Community regime for the exports control of dual-use items



European Community regime for the control of exports, transfer, brokering and transit of dual-use items.

For Resource, click <u>here</u>

Biological and Toxin Weapons
Convention (BWTC)



The Convention on the Prohibition of the Development, Production and Stockpiling of Bacteriological (Biological) and Toxin Weapons and on their Destruction

For Resource, click <u>here</u>

UN Security Council Resolution 1540



Non-proliferation of weapons of mass destruction

For Resource, click <u>here</u>

EU Regulation No.2009/43/EC regarding transfers of defence-related products within the Community



Directive 2009/43/EC of the European
Parliament and of the Council of 6 May 2009
simplifying terms and conditions of transfers
of defence-related products within the
Community

For Resource, click here



**National Reports** 

1540 Committee

Overview of country reports containing

information about national biosecurity laws

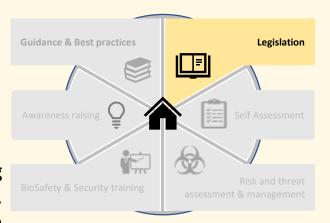
For Resource, click here

National Reports



The resources in this category will guide you to tools that can help to draw up legislation regarding biosecurity. The resources available in this category are primarily intended for legislators, policy makers, management, and biosafety officers. However, other interested parties will find interesting information here as well.





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# Policy & Codes

The resources in this category will guide you to tools that can help to set up policies regarding biosecurity aspects, or a code of conduct. The resources available in this category are primarily intended for policy makers, management, researchers and biosafety officers. However, other interested parties will find interesting information here as well.



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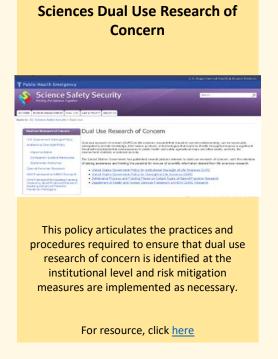
Enhancing Responsible Science –
Considerations for the
Development and Dissemination
of Codes of Conduct for Dual Use
Research Vulnerability scan

Enhancing Responsible Science
Consider attans for the Development and Dissemination of
Codes of Conduct for Dual Use Research

This report provides a toolkit for individuals and groups interested in formulating codes of conduct for dual use research and an educational module on dual use research.

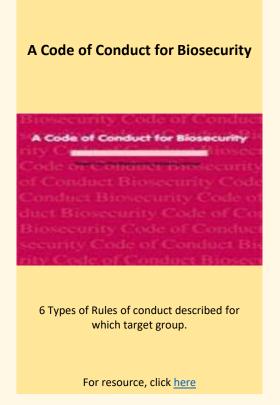
For Resource, click here





**United States Government Policy** 

for Institutional Oversight of Life



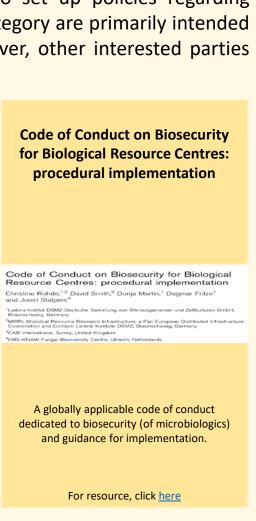




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The resources in this category will guide you to tools that can help to draw up legislation regarding biosecurity. The resources available in this category are primarily intended for researchers and biosafety officers. However, other interested parties will find interesting information here as well.

#### Prior assessment tool

### The Chatham House Sustainable Laboratories Initiative

Prior assessment tool

David R Harper Proma Ross and Ren Wakefield

#### Canada

A tool for building laboratory capacity based on a local (Afrika) risk assessment, whereby laboratories are appropriately and optimally tailored to the local risks and to the resources available, both in the short and longer term, without compromising biosafety and biosecurity.

To resource, click here

#### **Vulnerability Scan**



Identify vulnerabilities in your organization, questionnaires provide insight into eight key areas of biosecurity.

To resource, click here

#### Biosecurity Self-scan Toolkit



Questionnaire on eight pillars of biosecurity to give an indication of the current level of biosecurity in your organization.

To resource, click <u>here</u>

#### Joint External Evaluation Tool (JEE)

JOINT EXTERNAL

# EVALUATION TOOL SECOND EDITION INTERNATIONAL HEALTH REGULATIONS (2005) (A) (A) (A) (A)

Tool to assess country capacity to prevent, detect, and rapidly respond to public health threats.
Missions reports available.

To resource, click here

### Laboratory Mapping Tool (LMT)



A pertinent tool in evidencing and understanding where diagnostic laboratory gaps and strengths are.

To resource, click here

#### Laboratory leadership competency framework



The purpose of the Framework is to outline the essential competencies needed by laboratory leaders to build and direct sustainable national laboratory systems for disease detection, control and prevention in health systems

To resource, click <u>here</u>



# Risk and threat assessment & management

The resources in this category will guide you to tools that can help to perform Risk identification regarding biosecurity aspects. The resources available in this category are primarily intended for management, researchers and biosafety officers. However, other interested parties will find interesting information here as well.



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Improving biosecurity assessment of dual-use research

IMPROVING BIOSECURITY
ASSESSMENT OF DUAL-USE RESEARCH

Dutch Advisory Report (EN): The Academy hopes its advice will help to bridge the gap between two worlds: the world of researchers in the life sciences and the world of security specialists.

To resource, click here

#### Harmonization of European Networks by Implementing CWA 15793

Harmonization of European Laboratory
Response Networks by Implementing CWA
15793: Use of a Gap Analysis and an "Insider"
Exercise as Tools

Solution of the Complete Complete

A gap analysis was performed to establish the current compliance status of biosafety and laboratory biosecurity management with CWA 15793 in 5 AniBioThreat partner institutes.

To resource, click <u>here</u>

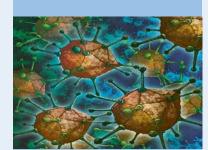
### Strengthening Risk Governance in Bioscience Laboratories

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This report is intended to help facility managers and policy makers better understand risk governance approaches for laboratories that handle dangerous pathogens.

To resource, click <u>here</u>

#### **Bioagents education**



App with information of bioagents on status, ways of transmission, treatment options, lethality, contagious and biosafety

To resource, click here

#### Pathogen Safety Data Sheets



Pathogen Safety Data Sheets (PSDSs) are technical documents that describe the hazardous properties of a human pathogen and provide recommendations for work involving these agents in a laboratory setting.



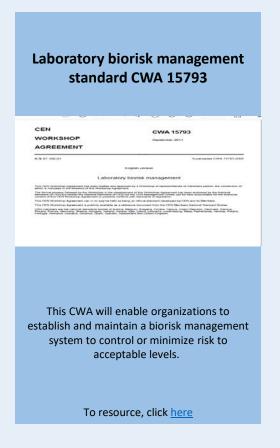
## Risk and threat assessment & management

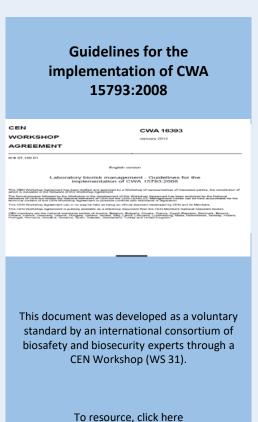
The resources in this category will guide you to tools that can help to perform Risk identification regarding biosecurity aspects. The resources available in this category are primarily intended for management, researchers and biosafety officers. However, other interested parties will find interesting information here as well.

















# BioSafety & Security Training

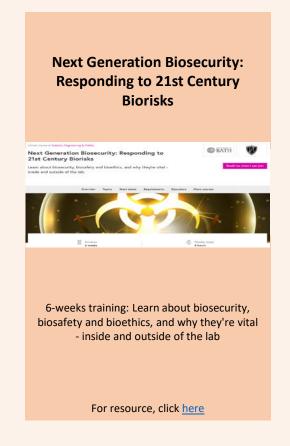
The resources in this category will guide you to tools that can help to setup a training program for aspect of Biosafety and Biosecurity. The resources available in this category are primarily intended for management, researchers and biosafety officers. However, other interested parties will find interesting information here as well.

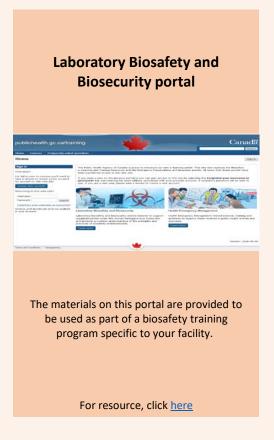


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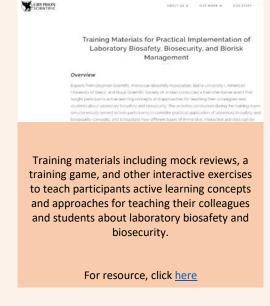








Training Materials for Practical Implementation of Laboratory Biosafety, Biosecurity, and Biorisk management







# BioSafety & Security Training

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#### Global Biorisk Management Curriculum (GBRMC)

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Global Biorisk Management Curriculum (GBRMC) library based on international best practices such as CWA 15793 and WHO biosafety and biosecurity guidance

For resource, click here

#### Biosafety, Biosecurity and the Evaluation of Biohazards Course - Facilitators' Manual

Yale Center for Public Health Preparedness,
Yale School of Public Health
iosafety, Biosecurity and the Evaluation of Biohazards Course - Pacilitators' Manu

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This resource is comprised of an instructor's manual, lecture presentations, student readings, exercises and assignments.

For resource, click <u>here</u>

### An Analytical Approach (Biosecurity)

publichealth go.ca/training

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The Analytical Approach is a tool developed to assist countries or regions build, modernize, or strengthen their national or regional biosafety and biosecuritysystems to mitigate the risks of a natural, accidental or deliberate release of biological agents.

For resource, click <u>here</u>







The resources in this category will guide you to tools that can assist in raising awareness regarding various aspects of biosecurity. The resources available in this category are intended for a broad target audience, ranging from policy makers to researchers. All parties interested in raising awareness regarding biosecurity will find interesting information here.

On the Dual Uses of Science and Ethics, Principles, Practices, and **Prospects Vulnerability scan** ON THE DUAL USES OF SCIENCE AND ETHICS PRINCIPLES, PRACTICES, AND PROSPECTS edited by Brian Rappert and Michael J. Selgelid This report examines the potential for the skills, know-how, information, and techniques associated with modern biology to serve contrasting ends. For resource, click



