



Outreach and Education on Dual Use Research and the NSABB:

Efforts of the NIH Office of Biotechnology Activities



NSABB Session on Outreach and Education February 28, 2008



Outreach and Education Goals

Short-term

- Educate scientific community and public at large about the dual use issue (nature of issue, importance, relevance)
- Apprise research community on the status of Federal policy making
- Promote thoughtful input from stakeholders on NSABB work products and Federal policies



Outreach and Education Goals

Long term

- Educate about specific Federal requirements that emerge from the policy making process
- Sustain awareness and a culture of responsibility

Key Considerations

Target audiences

- Who are the key stakeholders?
- How do understanding and educational needs vary for each audience?
- What kind of input is best sought from various constituencies?

Message development

What are the key points to convey to different stakeholder communities?



Key Considerations

- Vehicles for information dissemination
 - What are the most effective means of communicating about the issue of dual use research?
 - Who are the most credible and effective communicators?

Coordination of input

 How should solicitation and compilation of stakeholder commentary on evolving Federal policy be accomplished?



- Keep the community current on the status of the Federal policy making process, including the activities of the NSABB.
 - Website as the portal for information on the NSABB, its meetings, work products; email inbox for public queries; listserv for updates

http://www.biosecurityboard.gov



Welcome

The NSABB has been established to provide advice to federal departments and agencies on ways to minimize the possibility that knowledge and technologies emanating from vitally important biological research will be misused to threaten public health or national security. The NSABB is a critical component of a set of federal initiatives to promote biosecurity in life science research.

The NSABB is charged specifically with guiding the development of:

- A system of institutional and federal research review that allows for fulfillment of important research objectives while addressing national security concerns;
- Guidelines for the identification and conduct of research that may require special attention and security surveillance;
- Professional codes of conduct for scientists and laboratory workers that can be adopted by professional
 organizations and institutions engaged in life science research; and
- Materials and resources to educate the research community about effective biosecurity.
- Strategies for fostering international collaboration for the effective oversight of dual use biological research.

The NSABB is chartered to have up to 25 voting members with a broad range of expertise in molecular biology, microbiology, infectious diseases, biosafety, public health, veterinary medicine, plant health, national security, biodefense, law enforcement, scientific publishing, and related field. The NSABB also includes nonvoting ex officio members from 15 federal agencies and departments.

Please visit this site frequently for updates on the NSABB and its activities.

Office of Biotechnology Activities National Institutes of Health 6705 Rockledge Drive, Suite 750 Bethesda, MD 20892-7985 Email: nsabb@od.nih.gov Phone: 301-496-9838 Fax: 301-496-9839

Email

- Public queries regarding NSABB activities can be address to:
 - nsabb@od.nih.gov
- OBA's listserv
 - Send a message to: listserv@list.nih.gov
 - In the body of the message, type: subscribe oba_news



- Keep the community current on the status of the Federal policy making process, including the activities of the NSABB.
 - Website as the portal for information on the NSABB, its meetings, work products; email inbox for public queries; listserv for updates
 - Presentations to key constituency groups on the nature of the dual use issue, origins of the NSABB, activities and work products of the NSABB, etc.; standard slide sets

Sampling of Organizations to Whom NIH OBA Staff Have Presented about NSABB and Dual Use Research

- American Association for the Advancement of Science
- American Biological Safety Association
- American Society for Microbiology
- Association of American Medical Colleges
- Center for Strategic and International Studies
- Chesapeake Area Biological Safety Association
- Council on Government Relations
- Global Health Security Initiative Ministerial Meeting
- Howard Hughes Medical Institute
- Massachusetts Society for Medical Research
- Midwest Area Biosafety Network
- NAS Committee on New Gov't-Univ Partnership for Science and Security
- NAS Committee on Biodefense Analysis and Countermeasures
- Northeast Biological Safety Association
- Princeton University Biosciences Oversight Workshop
- Public Responsibility in Medicine and Research
- University of Hawaii
- University of Michigan Symposium on Academic Freedom and National Security
- University of Pittsburgh Medical Center Center on Biosecurity
- University of Texas System
- World Health Organization





- Keep the community current on the status of the Federal policy making process, including the activities of the NSABB.
 - Website as the portal for information on the NSABB, its meetings, work products; email inbox for public queries; listserv for updates
 - Presentations to key constituency groups on the nature of the dual use issue, origins of the NSABB, activities and work products of the NSABB, etc.
 - Exhibits at major meetings either in conjunction with recombinant DNA or alone as an NSABB exhibit



oba programs Biosecurity

The Biosecurity Program is a focal point for the development of policies addressing life sciences research yielding information or technologies with the potential to be misused to threaten public health or other aspects of national security.

OBA's activities to address such "dual use" research include convening and managing the National Science Advisory Board for Biosecurity, which provides advice to the Federal government on strategies to minimize the risks and harm that could result from the malevolent use of legitimate life science research information or technologies. Toward that end, the NSABB is charged with advising on the development of strategies for:

 Federal and institutional oversight Guidelines for the identification, review and surveillance of dual use research of concern

Education and training

Promoting awareness in the research community about the dual use issue and the responsible conduct of research with dual use potential

 International collaboration Fostering international dialogue on the issues related to dual use research

To learn more about NSABB activities visit www.biosecurityboard.gov

Biosecurity in the Life Sciences

U.S. National Science Advisory Board for Biosecurity



- Federal and institutional oversight Identifying, reviewing, and responsibly communicating dual use research of concern
- Education and training Promoting awareness in the research community about the dual use issue and the responsible conduct of research with dual use potential
- International collaboration
 Fostering international engagement on the issues related to dual use research

NSABB reports and activities include:

What is Dual

Use Research?

Research with legitimate scientific purpose that has

information that could be

misused to pose a threat to

aspects of national security.

the potential to yield

public health or other

- Proposed Framework for the Oversight of Dual Use Life Sciences Research
- Addressing Biosecurity Concerns Related to the Synthesis of Select Agents
- International Roundtable on Dual Use Life Sciences Research

How Does the NSABB Function?

The NSABB advises the U.S. Government on strategies to minimize the risk of, and harm that could result from the malevolent use of legitimate life science research information or technologies.

The NSABB members are experts in science, medicine, law, security, and the public interest.

NSABB meetings are open to the public and public input is key to the policy development process.

www.biosecurityboard.gov

National Institutes of Health Office of Biotechnology Activities

Biosecurity in the Life Sciences

What is Dual Use Research?

Research with legitimate scientific purpose that has the potential to yield information that could be misused to pose a threat to public health or other aspects of national security.

Does Your Research Have Dual Use Potential?



www.biosecurityboard.gov

NIH Biosecurity Program

OBA's activities to address "dual use" research include convening and managing the National Science Advisory Board for Biosecurity, which provides advice to the Federal government on:

 Federal and institutional oversight Identifying, reviewing and surveilling dual use research of concern

Education and training

use research

Promoting awareness in the research community about the dual use issues and the responsible conduct of research with dual use potential International collaboration Fostering international engagement on the issues related to dual



- Keep the community current on the status of the Federal policy making process, including the activities of the NSABB.
 - Website as the portal for information on the NSABB, its meetings, work products; email inbox for public queries; listserv for updates
 - Presentations to key constituency groups on the nature of the dual use issue, origins of the NSABB, activities and work products of the NSABB, etc.
 - Exhibits at major meetings either in conjunction with recombinant DNA or alone as an NSABB exhibit
 - Disseminating NSABB Work Products and FAQs

NATIONAL SCIENCE ADVISORY BOARD FOR BIOSECURITY

FREQUENTLY ASKED QUESTIONS

Establishment of the NSABB

- 1. What is the Administration's policy on biosecurity in life sciences research?
- 2. Why was the NSABB created?
- Was the NSABB created in response to the National Academies/National Research Council report "Biotechnology Research in an Age of Terrorism: Confronting the Dual Use Dilemma?"
- 4. What did the NRC report say?
- 5. How long will the NSABB exist?

Administration/Functions of the NSABB

- 6. What is the role of the NSABB?
- 7. What are the specific functions of the NSABB?
- 8. Who serves on the NSABB? How long do members serve?
- How are NSABB members selected?
- 10. What federal agencies are represented on the NSABB?
- 11. How often does the NSABB meet? Are the meetings open to the public?
- 12. Who manages and staffs the NSABB?
- 13. How can I contact the NSABB?

Oversight of Dual Use Research

- 14. What is "dual use" research?
- 15. Does the NSABB review or approve all dual use research?
- 16. What is the relationship between research involving Select Agents and dual use research? Is there a relationship between the oversight systems for these two areas of research?
- 17. How have the roles and responsibilities of Institutional Biosafety Committees (IBCs) changed with the announcement of new Federal biosecurity initiatives, including the establishment of the NSABB and a proposed role for IBCs in the review of "dual use" research?

6705 Rockledge Drive, Suite 750, Bethesda MD 20892-7985 • Tel (301)496-9838 • Fax (301)496-9839 Email: oba@od.nih.gov • http://www4.od.nih.gov/oba



Modes of Outreach

- Keep the community current on the status of the Federal policy making process, including the activities of the NSABB.
 - Website as the portal for information on the NSABB, its meetings, work products; email inbox for public queries; listserv for updates
 - Presentations to key constituency groups on the nature of the dual use issue, origins of the NSABB, activities and work products of the NSABB, etc.
 - Exhibits at major meetings either in conjunction with recombinant DNA or alone as an NSABB exhibit
 - Disseminating NSABB Work Products and FAQs
 - Incorporating material on dual use research into our "IBC Basics" and "Effective IBCs" courses and similar training sessions for researchers and research administrators

Advancing Ethical Research Through Education and Policy



EDUCATION

Overview

Faculty

Program

"Integrity without knowledge is weak and useless, and knowledge without integrity is dangerous and dreadful." —Samuel Johnson Home > Education > Conferences > Past Educational Events > IRB Admin Essentials 2008



San Francisco, CA

Overview

September 18-20, PRIM&R offered three highly acclaimed educational programs. These courses – IRB Administrator 101, IBC Basics, and Essentials of IACUC Administration – are geared specifically to meet the educational needs of the IRB, IBC, and/or IACUC member, administrator, and staff.

IBC Basics Monday, September 18, 8:30 AM-5:00 PM

IBC Basics: An Introduction to the NIH Guidelines and the Oversight of Recombinant DNA Research was a full day course on the history, function, and administration of Institutional Biosafety Committees (IBCs).

Delivered by expert staff from the National Institutes of Health (NIH) Office of Biotechnology Activities (OBA), along with institutional biosafety professionals and other members of the IBC community, IBC Basics promotes the professional development of those associated with IBCs, by providing an opportunity to:

- Learn about the NIH OBA, the content of the NIH Guidelines for Research Involving Recombinant DNA Molecules, and the history of IBCs;
- Understand the range of responsibilities that IBCs have under the NIH Guidelines;
- Work through case studies designed to clarify federal expectations with regard to biosafety review and surveillance of recombinant DNA and related research;
- Examine the relationship of IBCs to IACUCs in terms of their respective purviews, roles, and responsibilities; and
- Network with colleagues to share ideas about best practices, resources, innovative approaches, and possible collaborations.

The target audience for this course included IBC members and staff, research administrators, biosafety officers, regulatory affairs officers, members and staff of institutional oversight committees, such as IACUCs, and others interested in the oversight of recombinant DNA research.





- Ensure stakeholder input into NSABB work products and Federal policy making
 - Development of the NSABB work products criteria, codes, communication tools, and recommendations on synthetic genomics – involved:
 - Roundtables
 - Focus groups
 - Presentations to stakeholder audiences



- Engaging international life sciences community on the issue of dual use research of concern
 - International Roundtables
 - February 2007
 - October 2007



Future Considerations and Activities

Need for more awareness raising

Widely accessible, multi-media products

Need for robust input into Federal policy

- Regional "townhall" conferences
- Future need to educate about requirements that will emerge
 - Educational tools and resources



Future Considerations and Activities

Additional outreach opportunities

 There are many additional groups that staff and NSABB members could potentially reach

Diverse audiences

- Life sciences are widely encompassing
- Multiple agencies will need to develop programs tailored to their own research contexts