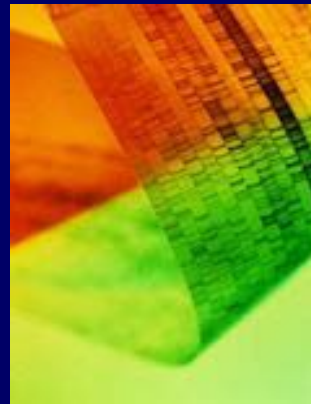
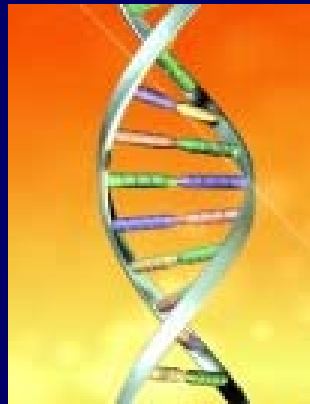


What are “Dual Use Research” and “Dual Use Research of Concern”?



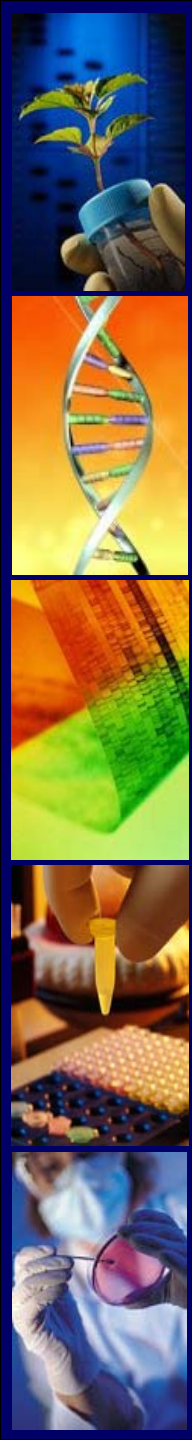
David R. Franz, D.V.M., Ph.D.

Vice President and Chief Biological Scientist

Midwest Research Institute

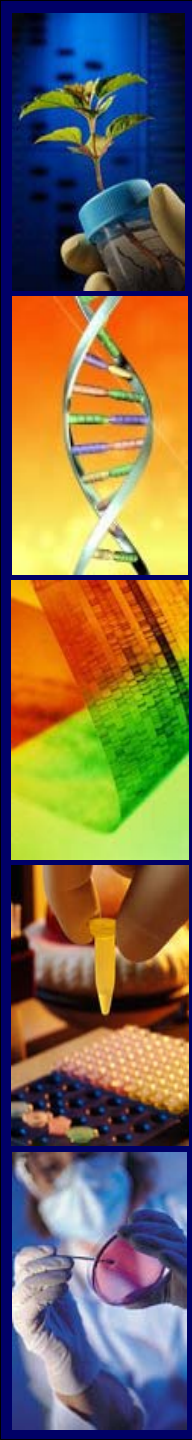
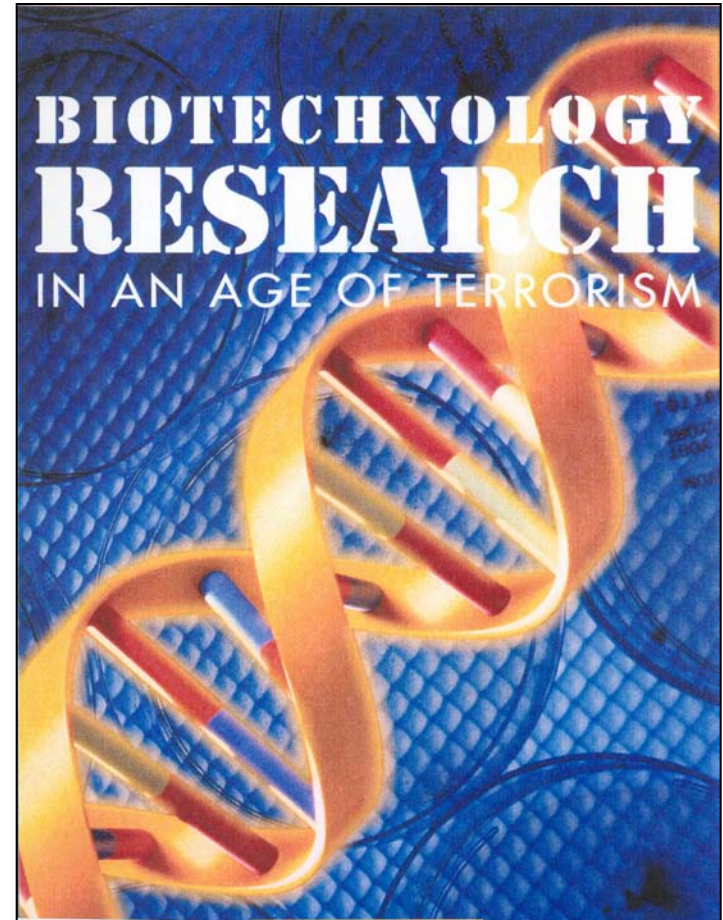
The “Dual Use” Dilemma

- *Life sciences research underpins:*
 - Biomedical and public health advances
 - Improvements in agriculture
 - Safety and quality of food supply
 - Environmental quality
 - Strong national security and economy
- *However, good science can be put to bad uses*



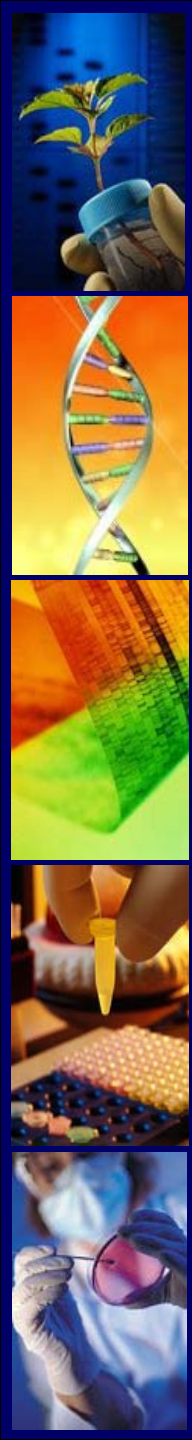
The Concept of “Dual Use” Research

- Report of the National Research Council of the National Academies (2004)
- “...the same technologies can be used legitimately for human betterment and misused for bioterrorism.”



NSABB

- **To advise on strategies for mitigating the potential for misuse of dual use biological research**
 - **Consider both national security concerns and the needs of the research community**



Proposed Oversight Framework for DURC

NATIONAL
SCIENCE
ADVISORY
BOARD FOR
BIOSECURITY

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



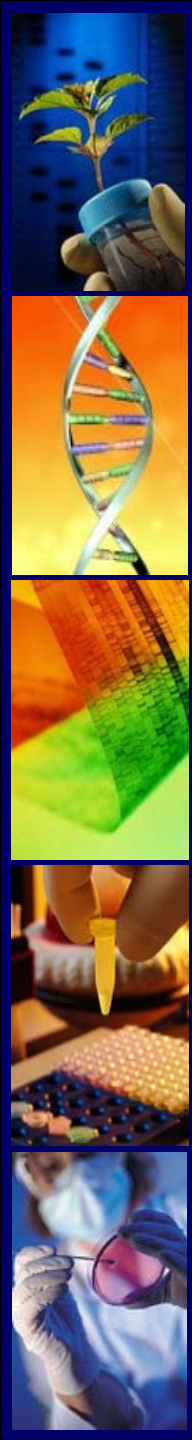
A Report of the National Science Advisory Board for Biosecurity (NSABB)

June 2007

Charge: Propose an oversight framework for the identification, review, conduct, and communication of life sciences research with dual use potential

DUR vs. DURC

- Development of new technologies and generation of information with potential for benevolent and malevolent purposes = **dual use research (DUR)**
- But most life sciences research has *some* potential for misuse – most could be considered DUR
- Goal is to identify the subset that has highest potential for generating information that could be misused = **DUR of concern (DURC)**

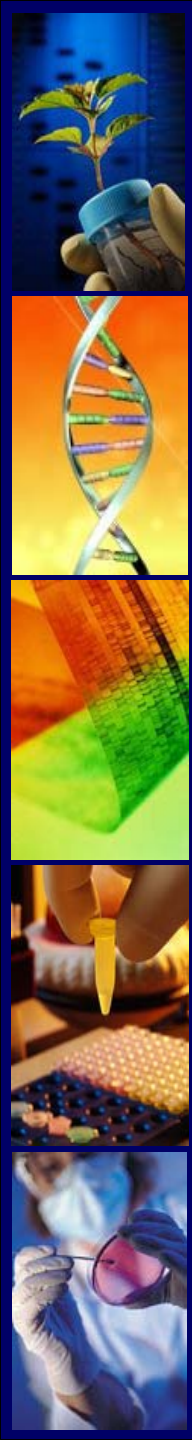


Criterion for Identifying DURC

- Research that, based on current understanding, can be reasonably anticipated to provide knowledge, products, or technologies that could be directly misapplied by others to pose a threat to:

- Public health
- Agriculture
- Plants
- Animals
- Environment
- Materiel

**Elements of
national security**



Global Scientific Community

- Life sciences research is a global endeavor
- Critical that researchers worldwide
 - Are aware of the dual use issue
 - Understand their responsibility
 - Engage with colleagues across the globe to promote responsible research

