Dual Use Research of Concern at Colorado State University

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What Research Is Subject to the Policy?

- Research that directly involves any of the following 15 agents and toxins – except exclusions

  - Avian influenza virus (highly pathogenic)
  - *Bacillus anthracis*
  - Botulinum neurotoxin (in any quantity)
  - *Burkholderia mallei*
  - *Burkholderia pseudomallei*
  - Ebola virus
  - Foot-and-mouth disease virus
  - *Francisella tularensis*
  - Marburg virus
  - Reconstructed 1918 Influenza virus
  - Rinderpest virus
  - Toxin-producing strains of *Clostridium botulinum*
  - Variola major virus
  - Variola minor virus
  - *Yersinia pestis*
CSU and DURC

- 2009 CSU added DURC question to Project Approval Request Form
- 2012 Two papers published on Gain of Function of H5N1 HPAIV
- 2012 USG Oversight policy on DURC
- 2014 Institutional policy for DURC
- 2015 CSU added more detailed query to PARF regarding DURC
• At CSU the “Institutional Review Entity” will be our existing IBC
• Institutional Contact for Dual Use Research (ICDUR) - VP for Research
• Investigators are notified of their responsibilities through the IBC protocol system
  – 1200 protocols per year
  – Checklist of the 7 “experimental effects” which defaults to “YES”
Issues to Be Resolved

• Agents that have potential DURC but are not on the list?
• Gain of Function (GOF) research for many agents (antimicrobial resistance, host range)?
• Research issues similar to the Australian “mouse pox” research (accidental GOF)?
• “How to” publications such as Botox in the milk supply?