**Registration of Biosafety Level 2 (BSL-2) and Biosafety Level 3 (BSL-3)**

**Infectious Agents, Select Agents, and Biological Toxins**

* *Inclusion of Appendix A-2 requires completion by all listed researchers of the CITI IBC course "Training for Investigators, Staff and Students Handling Biohazards".*

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| **1.** | Which infectious microorganism(s) will be used in this project? |
|  | List below. |
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| **2.** | Are any of the microorganisms or toxins classified as “Select Agents” according to CDC/USDA regulations? (<http://www.selectagents.gov/Select%20Agents%20and%20Toxins%20List.html>) | |
|  | Yes |
|  | No |
|  | If “Yes”, list the Select Agent(s) and amount of toxin in possession. | |
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| **3.** | Are any of the microorganisms Human, Animal, or Plant pathogens? | |
|  | Yes (Human pathogen) |
|  | Yes (Animal pathogen) |
|  | Yes (Plant pathogen) |
|  | No |
|  | If “No” skip question 8.  If any “Yes”, list pathogenic microorganisms below. | |
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| **4.** | What are the natural routes of transmission of (each of) these microorganisms? |
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| **5.** | Are any of the microorganisms resistant to antibiotics or antivirals? | |
|  | Yes |
|  | No |
|  | If “Yes”, describe. | |
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| **6.** | Are vaccines available or recommended for any of the microorganisms listed above? | |
|  | Yes |
|  | No |
|  | If “Yes”, describe. | |
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| **7.** | Are effective therapies (antibiotic, antifungal, antiviral, etc.) available for treating infections with any of the microorganisms? | |
|  | Yes |
|  | No |
|  | If “Yes”, describe. | |
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| **8.** | Are the organisms concentrated during laboratory manipulations? | |
|  | Yes |
|  | No |
|  | If “Yes”, describe the methods of concentration. | |
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| **9.** | Are the organisms inactivated prior to other laboratory manipulations? | |
|  | Yes |
|  | No |
|  | If “Yes”, describe the methods of inactivation. | |
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| **10.** | Describe the mechanism for decontamination of lab equipment and lab surfaces following use of the microorganism. |
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| **11.** | Describe the mechanism for decontaminating biohazardous lab waste prior to disposal. |
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| **12.** | Does the microorganism synthesize a toxin that is harmful to vertebrates? | |
|  | Yes |
|  | No |
|  | If “Yes”, name the toxin, identify and specify susceptible animals, and specify whether humans are susceptible.  If “No”, skip to Question 16. | |
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| **13.** | Specify the LD50 of the toxin for humans, if applicable, and for any experimental animal used. |
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| **14.** | Will the toxin(s) be purified or concentrated? |
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| **15.** | Is there an antidote available for humans exposed to the toxin? | |
|  | Yes |
|  | No |
|  | If “Yes”, provide information and availability. | |
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| **16.** | Where will the experiments with the microorganism(s) or toxins be conducted? Location: room and building |
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| **17.** | Where will the microorganism(s) or toxins be stored? Location: room and building |
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| **18.** | What Biosafety Level(s) (BSL-2 or BSL-3) will be used in the experiments with the microorganisms or toxins? | |
|  | BSL-2 |
|  | BSL-3 |

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| **19.** | Does the experiment involve the infection of mammals, or exposure of mammals to the toxin? | |
|  | Yes |
|  | No |
|  | If “No”, skip to question 22.  If “Yes”, how many animals and of which species, will be infected or exposed to the toxin?  Can the infected animal(s) release this microorganism into the environment?  Can the toxin be released by the animals into the environment? Explain. | |
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| **20.** | If mammals are to be used, at what (Animal) Biosafety level will they be housed? | |
|  | BSL-1 / ABSL-1 |
|  | BSL-2 / ABSL-2 |
|  | BSL-3 / ABSL-3 |
|  | Describe housing of these animals. Location: room and building | |
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| **21.** | Identify potential exposure hazards to the animal during experimental manipulations of the infectious agent or toxin. (Examples: aerosol generation when transferring, mixing and /or centrifuging, use of sharps, excretion by animals, growing of cultures, etc.). |
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| **22.** | Describe the safety procedures that will be employed to minimize risk to humans and prevent release of infectious agents or toxins. Identify what safety equipment will be used. (Examples: lab coat, gloves, face shield, biological safety cabinet, secondary containment for liquid, spill mats, sharps disposal procedures, secondary containment for centrifuge samples, waste disposal procedures, decontamination and waste handling etc.) |
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| **23.** | If the infectious agent(s) or toxins have been modified to make them safer to use, please describe the modification. If animals are to be infected with an infectious agent or toxin and will need housing ,describe what safety considerations are necessary during animal housing. |
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