

**INSTITUTIONAL BIOSAFETY COMMITTEE
SAN JOSÉ STATE UNIVERSITY
BIOLOGICAL USE AUTHORIZATION APPLICATION**

**Attachment B.
Microbial/Infectious Agents**

Check all that apply:

Risk group (RG) of pathogens/infectious agents:

RG1/BSL-1 RG2/BSL-2 RG3/BSL-3

- We will be introducing microbial/infectious agents in vivo
 - We will be introducing microbial/infectious agents into animals or plants (complete [Attachment G](#))
 - We will be introducing microbial/infectious agents into other microbes
 - We will be introducing microbial/infectious agents into cell cultures, organs, or unfixed tissues (complete [Attachment C](#))
 - We will be transferring microbial/infectious agents into one or more human research participants (contact the IBC chair at laura.miller.conrad@sjsu.edu)
- We will be collecting environmental samples with the purpose of isolating certain microbial agents (complete [Attachment D](#))
- Procedures will be performed with microbial agents that may be associated with an increased potential risk of exposure to personnel. Explain below.
- We will be handling or culturing 10 liters or more at any one time (contact the IBC chair at laura.miller.conrad@sjsu.edu)
- We will be working with [Select Agents](#).

A Standard Operating Procedure (SOP) must be attached that describes your methods for producing and using microbial/infectious agents. A detailed step-by-step protocol is not necessary, but provide sufficient information on your procedures so that the committee can identify the steps that involve the greatest likelihood of worker or environmental exposure to biohazardous materials. Include the steps that will be conducted in a biological safety cabinet (including reagent and construct preparation). Consult the SOP template and the sample BSL-2 SOP for other required components.

Microbial/Infectious Agents

Include bacteria, virus, yeast, fungi, prions, rickettsias, and parasites under category Risk Group 2.

Microbe Source (genus, species, strain)	Risk Group (BSL)	Replication competent (Y/N)	Host Range of agent (specify species – humans, animals, plants)	Route of Transmission	Disease or Toxins produced	Susceptibility and resistance
Candida albicans	2	Y	Humans, animals	contact with mucous membrane and through ingestion	Candidiasis	Susceptible to azoles, amphotericin B, and echinocandins
Candida glabrata	2	Y	Humans, animals	contact with mucous membrane and through ingestion	Candidiasis	Susceptible to azoles, amphotericin B, and echinocandins

Risk assessment.

If you are using a plant or animal pathogen, discuss the possible consequences of a release into local agricultural areas or natural ecosystems

Strains of Candida can cause secondary infections in a variety of animals. Due to experimental design and work practices, the potential risk of release of Candida albicans and Candida glabrata to the environment is extremely low.

<input checked="" type="checkbox"/> N/A	<h3>Regulated Select Agents</h3> <p>See link for list of Select Agents and exclusions. If agent is not eligible for exemption or exclusions, list the agents below and submit a copy of the Select Agent registration application to the IBC</p>
Name of Microbial Agent and Strain	