

## Biological Agents and Toxins within the scope of Category 1 (DURC) Research

<https://www.ehs.washington.edu/biological/biological-research-approval/durc-pepp>

<b>Toxins</b>	
<input type="checkbox"/>	Abrin
<input type="checkbox"/>	Botulinum neurotoxins
<input type="checkbox"/>	Conotoxins (Short, paralytic alpha conotoxins containing the amino acid sequence X <sub>1</sub> CCX <sub>2</sub> PACGX <sub>3</sub> X <sub>4</sub> X <sub>5</sub> X <sub>6</sub> CX <sub>7</sub> )
<input type="checkbox"/>	Diacetoxyscirpenol
<input type="checkbox"/>	Ricin
<input type="checkbox"/>	Saxitoxin
<input type="checkbox"/>	Staphylococcal enterotoxins (subtypes A,B,C,D,E)
<input type="checkbox"/>	T-2 toxin
<input type="checkbox"/>	Tetrodotoxin
<b>Bacteria and Rickettsia</b>	
<input type="checkbox"/>	Bacillus anthracis
<input type="checkbox"/>	Bacillus anthracis Pasteur strain
<input type="checkbox"/>	Bacillus cereus Biovar anthracis
<input type="checkbox"/>	Bartonella
<input type="checkbox"/>	Botulinum neurotoxin producing species of Clostridium
<input type="checkbox"/>	Brucella including B. abortus, B. canis, B. suis
<input type="checkbox"/>	Burkholderia mallei
<input type="checkbox"/>	Burkholderia pseudomallei
<input type="checkbox"/>	Coxiella burnetti (except the Phase II, Nine Mile strain listed as Risk Group 2)
<input type="checkbox"/>	Francisella tularensis (except strains listed as Risk Group 2)
<input type="checkbox"/>	Mycoplasma capricolum
<input type="checkbox"/>	Mycoplasma mycoides
<input type="checkbox"/>	Orientia tsutsugamushi (formerly R. tsutsugamushi)
<input type="checkbox"/>	Pasteurella multocida type B – “buffalo” and other virulent strains
<input type="checkbox"/>	Ralstonia solanacearum
<input type="checkbox"/>	Rathayibacter toxicus
<input type="checkbox"/>	Rickettsia species: akari, australis, canada, conorii, prowazekii, rickettsii, siberica, typhi (mooseri)
<input type="checkbox"/>	Rickettsia prowazekii
<input type="checkbox"/>	Xanthomonas oryzae
<input type="checkbox"/>	Yersinia pestis (except strains listed as Risk Group 2)
<input type="checkbox"/>	Any other bacteria or rickettsia recommended to be handled at BSL-3 or BSL-4 per <a href="#">Biosafety in Microbiological and Biomedical Laboratories (BMBL)</a>
<b>Viruses</b>	
<input type="checkbox"/>	African swine fever virus
<input type="checkbox"/>	Avian influenza virus
<input type="checkbox"/>	Chapare virus
<input type="checkbox"/>	Chikungunya virus (except the vaccine strain 181/25 listed as Risk Group 2)
<input type="checkbox"/>	Classical swine fever virus

<input type="checkbox"/>	Crimean-Congo hemorrhagic fever virus
<input type="checkbox"/>	Eastern equine encephalitis virus
<input type="checkbox"/>	Ebolaviruses
<input type="checkbox"/>	Far Eastern subtype tick-borne encephalitis virus
<input type="checkbox"/>	Flexal
<input type="checkbox"/>	Foot-and-mouth disease virus
<input type="checkbox"/>	Goat pox virus
<input type="checkbox"/>	Guanarito virus
<input type="checkbox"/>	Hantaviruses including Hantaan virus
<input type="checkbox"/>	Hemorrhagic fever viruses as yet undefined
<input type="checkbox"/>	Hendra virus (or Equine Morbillivirus)
<input type="checkbox"/>	Herpesvirus simiae (Herpes B or Monkey B virus)
<input type="checkbox"/>	Influenza viruses: <ul style="list-style-type: none"> <li>▪ 1918-1919 H1N1 (1918 H1N1)</li> <li>▪ Reconstructed 1918 influenza virus (Reconstructed replication competent forms of the 1918 pandemic influenza virus containing any portion of the coding regions of all eight gene segments)</li> <li>▪ Human H2N2 (1957-1968)</li> <li>▪ Avian influenza virus</li> <li>▪ Highly pathogenic avian influenza H5N1 strains within the Goose/Guangdong/96-like H5 lineage</li> </ul>
<input type="checkbox"/>	Japanese encephalitis virus (except strains listed as Risk Group 2)
<input type="checkbox"/>	Junin virus (except the candid #1 vaccine strain listed in as Risk Group 2)
<input type="checkbox"/>	Lassa virus (or Lassa fever virus)
<input type="checkbox"/>	Lujo virus
<input type="checkbox"/>	Lumpy skin disease virus
<input type="checkbox"/>	Lymphocytic choriomeningitis virus (LCMV) neurotropic strains (except lab-adapted strains)
<input type="checkbox"/>	Machupo virus
<input type="checkbox"/>	Marburg viruses
<input type="checkbox"/>	Middle East respiratory syndrome coronavirus (MERS-CoV)
<input type="checkbox"/>	Monkeypox virus (Clade I and Clade II containing nucleic acids coding for clade I MPVX virus virulence factors)
<input type="checkbox"/>	Newcastle disease virus
<input type="checkbox"/>	Nipah virus
<input type="checkbox"/>	Peste des petits ruminants virus
<input type="checkbox"/>	Rift Valley fever virus
<input type="checkbox"/>	Rinderpest virus
<input type="checkbox"/>	Sabia virus
<input type="checkbox"/>	SARS-associated coronavirus (SARS-CoV)
<input type="checkbox"/>	SARS-CoV/SARS-CoV-2 chimeric viruses resulting from any deliberate manipulation of SARS-CoV-2 to incorporate nucleic acids coding for SARS-CoV virulence factors
<input type="checkbox"/>	Semliki Forest virus
<input type="checkbox"/>	Sheep pox virus
<input type="checkbox"/>	Siberian subtype tick-borne encephalitis virus
<input type="checkbox"/>	Swine vesicular disease virus

<input type="checkbox"/>	Tick-borne encephalitis virus complex including Absetterov, Central European encephalitis, Hanzalova, Hypr, Kumlinge, Kyasanur Forest disease, Omsk hemorrhagic fever, and Russian spring-summer encephalitis viruses
<input type="checkbox"/>	Variola major virus (Smallpox virus)
<input type="checkbox"/>	Variola minor virus (Alastrim)
<input type="checkbox"/>	Venezuelan equine encephalitis virus (except the vaccine strains TC-83 and V3526)
<input type="checkbox"/>	Yellow fever virus
<input type="checkbox"/>	Any other virus recommended to be handled at BSL-3 or BSL-4 per <a href="#">Biosafety in Microbiological and Biomedical Laboratories (BMBL)</a>
<b>Fungi</b>	
<input type="checkbox"/>	Coniothyrium glycinis (formerly Phoma glycinicola and Pyrenochaeta glycinis)
<input type="checkbox"/>	Sclerophthora rayssiae
<input type="checkbox"/>	Synchytrium endobioticum
<input type="checkbox"/>	Any other fungus recommended to be handled at BSL-3 or BSL-4 per <a href="#">Biosafety in Microbiological and Biomedical Laboratories (BMBL)</a>
<b>Prions</b>	
<input type="checkbox"/>	Transmissible spongiform encephalopathies (TSE) agents (Creutzfeldt-Jacob disease and kuru agents)
<input type="checkbox"/>	Any other prion recommended to be handled at BSL-3 or BSL-4 per <a href="#">Biosafety in Microbiological and Biomedical Laboratories (BMBL)</a>