APPENDIX C: CATEGORY 1 LIST OF BIOLOGICAL AGENTS AND TOXINS

Section 4.1 of the Policy provides for Category 1 review for research on any biological agent or toxin in the following list (from Section 4.1.1 of the Policy), where the research is reasonably anticipated to result in one of the experimental outcomes outlined in Section 4.1.2 of the Policy and where the research constitutes DURC as specified in Section 4.1.3 of the Policy:

- All Select Agents and Toxins listed in 9 CFR 121.3–121.4, 42 CFR 73.3–73.4, and 7 CFR 331.3 and regulated by USDA and/or HHS.
- All Risk Group 4 pathogens listed in Appendix B of the NIH Guidelines for Research Involving Recombinant or Synthetic Nucleic Acid Molecules (NIH Guidelines) -Classification of Human Etiologic Agents on the Basis of Hazard.
- A subset of Risk Group 3 pathogens listed in Appendix B of the NIH Guidelines -Classification of Human Etiologic Agents on the Basis of Hazard.
- For biological agents affecting humans that have not been assigned a Risk Group in the NIH Guidelines, refer to the current edition of Biosafety in Microbiological and Biomedical Laboratories (BMBL). In such cases, agents affecting humans that are recommended to be handled at Biosafety Level 3 (BSL-3) or Biosafety Level 4 (BSL-4) per the BMBL guidance are subject to this Policy.
- Biological agents added during future updates to the Implementation Guidance as specified in Sections 7 and 8.

The checklist below is a list of the particular biological agents and toxins that are generally described above and under Section 4.1.1 of the Policy, as of the date of this *Implementation Guidance*. This checklist is provided as an implementation tool for identifying research that may require Category 1 review. It is important to note that this checklist is subject to change depending upon amendments to the source documents listed above, including the BSAT list managed by HHS and USDA, and the Risk Group 3 and Risk Group 4 designations managed by NIH. Thus, it is always prudent to consult the original sources to confirm that your biological agent or toxin of interest is or is not subject to Category 1 review. It is encouraged, on a voluntary basis, to apply this *Implementation Guidance* and assess DURC risks even if the biological agent of interest is not one from the source documents. When questions arise regarding particular strains of pathogens, please refer to the BSAT list, the *NIH Guidelines*, or the BMBL, as appropriate.²⁸

62

²⁸ For the purposes of the Policy, where a pathogen is both a Select Agent and a Risk Group 3 or Risk Group 4 biological agent, the strain exclusions under the FSAP supersede those specified in the *NIH Guidelines*.

As described further in Section 6 of the Policy, there may be additional types of life sciences research that do not involve these biological agents or toxins described in Section 4.1.1 of the Policy or experiments in Section 4.1.2 of the Policy, yet pose DURC risks as described in Section 4.1.3 of the Policy. PIs and research institutions are encouraged to remain vigilant to such research, including work involving any other pathogen or toxin regardless of its Risk Group, and develop and apply appropriate risk mitigation measures.

 □ Abrin □ Bacillus cereus Biovar anthracis □ Botulinum neurotoxins □ Clostridium botulinum and neurotoxin-producing species of Clostridia □ Conotoxins (Short, paralytic alpha conotoxins containing the following amino acid sequence X₁CCX₂PACGX₃X₄Xx₃X₅CX₁) □ Coxiella burnetii □ Crimean-Congo hemorrhagic fever virus □ Diacetoxyscirpenol □ Eastern equine encephalitis virus □ Ebola virus □ Francisella tularensis □ Lassa fever virus □ Lujo virus □ Marburg virus □ Mpox virus Clade I 1918-1919 H1N1 including reconstructed replication competent forms of the 1918 pandemic influenza virus containing any portion of the coding regions of all eight gene segments (Reconstructed 1918 Influenza virus) □ Ricin □ Rickettsia prowazekii □ Severe acute respiratory coronavirus (SARS-CoV) □ 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 □ Saxitoxin 	HHS Select Agents and Toxins ²⁹		
□ Botulinum neurotoxins □ Clostridium botulinum and neurotoxin-producing species of Clostridia □ Conotoxins (Short, paralytic alpha conotoxins containing the following amino acid sequence X₁CCX₂PACGX₃X₄X₅X₀CX₁) □ Coxiella burnetii □ Crimean-Congo hemorrhagic fever virus □ Diacetoxyscirpenol □ Eastern equine encephalitis virus □ Ebola virus □ Francisella tularensis □ Lassa fever virus □ Lujo virus □ Marburg virus □ Mpox virus Clade I □ 1918-1919 H1N1 including reconstructed replication competent forms of the 1918 pandemic influenza virus containing any portion of the coding regions of all eight gene segments (Reconstructed 1918 Influenza virus) □ Ricin Rickettsia prowazekii □ Severe acute respiratory coronavirus (SARS-CoV) □ 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		Abrin	
□ Clostridium botulinum and neurotoxin-producing species of Clostridia □ Conotoxins (Short, paralytic alpha conotoxins containing the following amino acid sequence X₁CCX₂PACGX₃X₄X₅X₀CX₁) □ Coxiella burnetii □ Crimean-Congo hemorrhagic fever virus □ Diacetoxyscirpenol □ Eastern equine encephalitis virus □ Ebola virus □ Francisella tularensis □ Lujo virus □ Marburg virus □ Mpox virus Clade I □ 1918-1919 H1N1 including reconstructed replication competent forms of the 1918 pandemic influenza virus containing any portion of the coding regions of all eight gene segments (Reconstructed 1918 Influenza virus) □ Ricin Rickettsia prowazekii □ Severe acute respiratory coronavirus (SARS-CoV) □ 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		Bacillus cereus Biovar anthracis	
□ Conotoxins (Short, paralytic alpha conotoxins containing the following amino acid sequence X₁CCX₂PACGX₃X₄X₃X₀CX₂) □ Coxiella burnetii □ Crimean-Congo hemorrhagic fever virus □ Diacetoxyscirpenol □ Eastern equine encephalitis virus □ Ebola virus □ Francisella tularensis □ Lassa fever virus □ Lujo virus □ Marburg virus □ Mpox virus Clade I □ 1918-1919 H1N1 including reconstructed replication competent forms of the 1918 pandemic influenza virus containing any portion of the coding regions of all eight gene segments (Reconstructed 1918 Influenza virus) □ Ricin □ Rickettsia prowazekii □ Severe acute respiratory coronavirus (SARS-CoV) □ 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 □ Saxitoxin		Botulinum neurotoxins	
sequence X₁CCX₂PACGX₃X₄X₃X₀CX႗) Coxiella burnetii Crimean-Congo hemorrhagic fever virus Diacetoxyscirpenol Eastern equine encephalitis virus Ebola virus Francisella tularensis Lassa fever virus Lujo virus Marburg virus Mapox virus Clade I 1918-1919 H1N1 including reconstructed replication competent forms of the 1918 pandemic influenza virus containing any portion of the coding regions of all eight gene segments (Reconstructed 1918 Influenza virus) Ricin Rickettsia prowazekii Severe acute respiratory coronavirus (SARS-CoV) 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 Saxitoxin		Clostridium botulinum and neurotoxin-producing species of Clostridia	
 □ Coxiella burnetii □ Crimean-Congo hemorrhagic fever virus □ Diacetoxyscirpenol □ Eastern equine encephalitis virus □ Ebola virus □ Francisella tularensis □ Lujo virus □ Marburg virus □ Mpox virus Clade I □ 1918-1919 H1N1 including reconstructed replication competent forms of the 1918 pandemic influenza virus containing any portion of the coding regions of all eight gene segments (Reconstructed 1918 Influenza virus) □ Ricin □ Rickettsia prowazekii □ Severe acute respiratory coronavirus (SARS-CoV) □ 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 □ Saxitoxin 		Conotoxins (Short, paralytic alpha conotoxins containing the following amino acid	
 □ Crimean-Congo hemorrhagic fever virus □ Diacetoxyscirpenol □ Eastern equine encephalitis virus □ Ebola virus □ Francisella tularensis □ Lassa fever virus □ Lujo virus □ Marburg virus □ Mpox virus Clade I □ 1918-1919 H1N1 including reconstructed replication competent forms of the 1918 pandemic influenza virus containing any portion of the coding regions of all eight gene segments (Reconstructed 1918 Influenza virus) □ Ricin □ Rickettsia prowazekii □ Severe acute respiratory coronavirus (SARS-CoV) □ 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 □ Saxitoxin 		sequence $X_1CCX_2PACGX_3X_4X_5X_6CX_7$)	
 □ Diacetoxyscirpenol □ Eastern equine encephalitis virus □ Ebola virus □ Francisella tularensis □ Lassa fever virus □ Lujo virus □ Marburg virus □ Mpox virus Clade I □ 1918-1919 H1N1 including reconstructed replication competent forms of the 1918 □ pandemic influenza virus containing any portion of the coding regions of all eight gene segments (Reconstructed 1918 Influenza virus) □ Ricin □ Rickettsia prowazekii □ Severe acute respiratory coronavirus (SARS-CoV) □ 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 □ Saxitoxin 		Coxiella burnetii	
 □ Eastern equine encephalitis virus □ Ebola virus □ Francisella tularensis □ Lassa fever virus □ Lujo virus □ Marburg virus □ Mpox virus Clade I □ 1918-1919 H1N1 including reconstructed replication competent forms of the 1918 □ pandemic influenza virus containing any portion of the coding regions of all eight gene segments (Reconstructed 1918 Influenza virus) □ Ricin □ Rickettsia prowazekii □ Severe acute respiratory coronavirus (SARS-CoV) □ 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 □ Saxitoxin 		Crimean-Congo hemorrhagic fever virus	
 □ Ebola virus □ Francisella tularensis □ Lassa fever virus □ Lujo virus □ Marburg virus Clade I □ 1918-1919 H1N1 including reconstructed replication competent forms of the 1918 pandemic influenza virus containing any portion of the coding regions of all eight gene segments (Reconstructed 1918 Influenza virus) □ Ricin □ Rickettsia prowazekii □ Severe acute respiratory coronavirus (SARS-CoV) □ 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 □ Saxitoxin 		Diacetoxyscirpenol	
 □ Francisella tularensis □ Lassa fever virus □ Lujo virus □ Marburg virus □ Mpox virus Clade I □ 1918-1919 H1N1 including reconstructed replication competent forms of the 1918 pandemic influenza virus containing any portion of the coding regions of all eight gene segments (Reconstructed 1918 Influenza virus) □ Ricin □ Rickettsia prowazekii □ Severe acute respiratory coronavirus (SARS-CoV) □ 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 □ Saxitoxin 		Eastern equine encephalitis virus	
 □ Lassa fever virus □ Lujo virus □ Marburg virus □ Mpox virus Clade I □ 1918-1919 H1N1 including reconstructed replication competent forms of the 1918 □ pandemic influenza virus containing any portion of the coding regions of all eight gene segments (Reconstructed 1918 Influenza virus) □ Ricin □ Rickettsia prowazekii □ Severe acute respiratory coronavirus (SARS-CoV) □ 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 □ Saxitoxin 		Ebola virus	
 □ Lujo virus □ Marburg virus □ Mpox virus Clade I 1918-1919 H1N1 including reconstructed replication competent forms of the 1918 □ pandemic influenza virus containing any portion of the coding regions of all eight gene segments (Reconstructed 1918 Influenza virus) □ Ricin □ Rickettsia prowazekii □ Severe acute respiratory coronavirus (SARS-CoV) □ 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 □ Saxitoxin 		Francisella tularensis	
 □ Marburg virus □ Mpox virus Clade I 1918-1919 H1N1 including reconstructed replication competent forms of the 1918 □ pandemic influenza virus containing any portion of the coding regions of all eight gene segments (Reconstructed 1918 Influenza virus) □ Ricin □ Rickettsia prowazekii □ Severe acute respiratory coronavirus (SARS-CoV) □ 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 □ Saxitoxin 		Lassa fever virus	
 □ Mpox virus Clade I 1918-1919 H1N1 including reconstructed replication competent forms of the 1918 □ pandemic influenza virus containing any portion of the coding regions of all eight gene segments (Reconstructed 1918 Influenza virus) □ Ricin □ Rickettsia prowazekii □ Severe acute respiratory coronavirus (SARS-CoV) □ 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 □ Saxitoxin 		Lujo virus	
 1918-1919 H1N1 including reconstructed replication competent forms of the 1918 pandemic influenza virus containing any portion of the coding regions of all eight gene segments (Reconstructed 1918 Influenza virus) □ Ricin □ Rickettsia prowazekii □ Severe acute respiratory coronavirus (SARS-CoV) □ 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 □ Saxitoxin 		Marburg virus	
 □ pandemic influenza virus containing any portion of the coding regions of all eight gene segments (Reconstructed 1918 Influenza virus) □ Ricin □ Rickettsia prowazekii □ Severe acute respiratory coronavirus (SARS-CoV) □ 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 □ Saxitoxin 		Mpox virus Clade I	
segments (Reconstructed 1918 Influenza virus) □ Ricin □ Rickettsia prowazekii □ Severe acute respiratory coronavirus (SARS-CoV) □ 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 □ Saxitoxin		1918-1919 H1N1 including reconstructed replication competent forms of the 1918	
 □ Ricin □ Rickettsia prowazekii □ Severe acute respiratory coronavirus (SARS-CoV) □ 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 □ Saxitoxin 			
 □ Rickettsia prowazekii □ Severe acute respiratory coronavirus (SARS-CoV) □ 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 □ Saxitoxin 		segments (Reconstructed 1918 Influenza virus)	
□ Severe acute respiratory coronavirus (SARS-CoV) □ 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 □ Saxitoxin		Ricin	
 □ 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 □ Saxitoxin 		Rickettsia prowazekii	
SARS-CoV-2 to incorporate nucleic acids coding for SARS-CoV virulence factors Saxitoxin		Severe acute respiratory coronavirus (SARS-CoV)	
□ Saxitoxin		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	
		Saxitoxin	
□ Chapare virus		Chapare virus	

²⁹ Biological agents and toxins listed in this part of the list are controlled by Select Agent Regulations, please refer to the Select Agents and Toxins list for any relevant strain exclusions.

	Guanarito virus
	Junín virus
	Machupo virus
	Sabía virus
	Staphylococcal enterotoxins (subtypes A, B, C, D, E)
	T-2 toxin
	Tetrodotoxin
	Tick-borne encephalitis complex virus: Far Eastern subtype
	Tick-borne encephalitis complex virus: Siberian subtype
	Kyasanur Forest disease virus
	Omsk hemorrhagic fever virus
	Variola major virus (Smallpox virus)
	Variola minor virus (Alastrim)
	Yersinia pestis
Ov	erlap Select Agents and Toxins
	Bacillus anthracis
	Bacillus anthracis Pasteur strain
	Brucella abortus
	Brucella melitensis
	Brucella suis
	Burkholderia mallei
	Burkholderia pseudomallei
	Hendra virus
	Nipah virus
	Rift Valley fever virus
	Venezuelan equine encephalitis virus
US	DA Veterinary Services (VS) Select Agents and Toxins
	African horse sickness virus
	African swine fever virus
	Avian influenza virus [this is included here as a veterinary select agent in 9 CFR 121.3.
	Low pathogenicity strains are excluded.]
	Classical swine fever virus
	Foot-and-mouth disease virus
	Goat pox virus
	Lumpy skin disease virus
	Mycoplasma capricolum
	Mycoplasma mycoides
	Newcastle disease virus
	Peste des petits ruminants virus
	Rinderpest virus

	Sheep pox virus
	Swine vesicular disease virus
	DA Plant Protection and Quarantine (PPQ) Select Agents and Toxins
	Coniothyrium glycines
	Peronosclerospora philippinensis (Peronosclerospora sacchari)
	Ralstonia solanacearum
	Rathayibacter toxicus
	Sclerophthora rayssiae
	Synchytrium endobioticum
	Xanthomonas oryzae
<u>Otł</u>	ner Risk Group 4 Pathogens ³⁰
	Tick-borne encephalitis virus complex including Absetterov, Central European
ט	encephalitis, Hanzalova, Hypr, and Kumlinge
	Herpesvirus simiae (herpes B or monkey B virus)
	Hemorrhagic fever agents and viruses as yet undefined
<u>Oth</u>	ner Risk Group 3 Pathogens ³¹
	Bartonella
	Bartonella Brucella
	Bartonella
	Bartonella Brucella
	Bartonella Brucella Orientia tsutsugamushi Pasteurella multocida type B -"buffalo" and other virulent strains Rickettsia akari, R. australis, R. canada, R. conorii, R. rickettsii, R, siberica, R. typhi (R.
	Brucella Orientia tsutsugamushi Pasteurella multocida type B -"buffalo" and other virulent strains Rickettsia akari, R. australis, R. canada, R. conorii, R. rickettsii, R, siberica, R. typhi (R. mooseri)
	Brucella Orientia tsutsugamushi Pasteurella multocida type B -"buffalo" and other virulent strains Rickettsia akari, R. australis, R. canada, R. conorii, R. rickettsii, R, siberica, R. typhi (R. mooseri) Chikungunya virus except the vaccine strain 181/25
	Brucella Orientia tsutsugamushi Pasteurella multocida type B -"buffalo" and other virulent strains Rickettsia akari, R. australis, R. canada, R. conorii, R. rickettsii, R, siberica, R. typhi (R. mooseri) Chikungunya virus except the vaccine strain 181/25 Semliki Forest virus
	Brucella Orientia tsutsugamushi Pasteurella multocida type B -"buffalo" and other virulent strains Rickettsia akari, R. australis, R. canada, R. conorii, R. rickettsii, R, siberica, R. typhi (R. mooseri) Chikungunya virus except the vaccine strain 181/25 Semliki Forest virus St. Louis encephalitis virus
	Brucella Orientia tsutsugamushi Pasteurella multocida type B -"buffalo" and other virulent strains Rickettsia akari, R. australis, R. canada, R. conorii, R. rickettsii, R, siberica, R. typhi (R. mooseri) Chikungunya virus except the vaccine strain 181/25 Semliki Forest virus St. Louis encephalitis virus Flexal virus
	Brucella Orientia tsutsugamushi Pasteurella multocida type B -"buffalo" and other virulent strains Rickettsia akari, R. australis, R. canada, R. conorii, R. rickettsii, R, siberica, R. typhi (R. mooseri) Chikungunya virus except the vaccine strain 181/25 Semliki Forest virus St. Louis encephalitis virus Flexal virus Lymphocytic choriomeningitis virus (LCM) (neurotropic strains)
	Brucella Orientia tsutsugamushi Pasteurella multocida type B -"buffalo" and other virulent strains Rickettsia akari, R. australis, R. canada, R. conorii, R. rickettsii, R, siberica, R. typhi (R. mooseri) Chikungunya virus except the vaccine strain 181/25 Semliki Forest virus St. Louis encephalitis virus Flexal virus Lymphocytic choriomeningitis virus (LCM) (neurotropic strains) Hantaviruses, including Hantaan virus
	Brucella Orientia tsutsugamushi Pasteurella multocida type B -"buffalo" and other virulent strains Rickettsia akari, R. australis, R. canada, R. conorii, R. rickettsii, R, siberica, R. typhi (R. mooseri) Chikungunya virus except the vaccine strain 181/25 Semliki Forest virus St. Louis encephalitis virus Flexal virus Lymphocytic choriomeningitis virus (LCM) (neurotropic strains) Hantaviruses, including Hantaan virus Middle East respiratory syndrome coronavirus (MERS-CoV)
	Brucella Orientia tsutsugamushi Pasteurella multocida type B -"buffalo" and other virulent strains Rickettsia akari, R. australis, R. canada, R. conorii, R. rickettsii, R, siberica, R. typhi (R. mooseri) Chikungunya virus except the vaccine strain 181/25 Semliki Forest virus St. Louis encephalitis virus Flexal virus Lymphocytic choriomeningitis virus (LCM) (neurotropic strains) Hantaviruses, including Hantaan virus Middle East respiratory syndrome coronavirus (MERS-CoV) Severe acute respiratory coronavirus 2 (SARS-CoV-2)
	Brucella Orientia tsutsugamushi Pasteurella multocida type B -"buffalo" and other virulent strains Rickettsia akari, R. australis, R. canada, R. conorii, R. rickettsii, R, siberica, R. typhi (R. mooseri) Chikungunya virus except the vaccine strain 181/25 Semliki Forest virus St. Louis encephalitis virus Flexal virus Lymphocytic choriomeningitis virus (LCM) (neurotropic strains) Hantaviruses, including Hantaan virus Middle East respiratory syndrome coronavirus (MERS-CoV)

 $^{^{30}}$ Pathogens listed in this part of the list are Risk Group 4 but not controlled by the Select Agent Regulations, please refer to the *NIH Guidelines* for any relevant strain exclusions.

31 Pathogens listed in this part of the list are Risk Group 3 but not controlled by the Select Agent Regulations,

please refer to the NIH Guidelines for any relevant strain exclusions.

	Yellow fever virus	
	Human influenza A virus H2N2 (1957-1968)	
	Highly pathogenic avian influenza A virus H5Nx strains within the	
	Goose/Guangdong/96-like H5 lineage (e.g., H5N1, H5N6, H5N8 etc.)	
	Transmissible spongiform encephalopathy (TSE) agents (e.g., Creutzfeldt-Jacob	
	disease and kuru agents)	
Other		
	Any attenuated pathogen or vaccine strain that is currently excluded from the Select	
	Agent Regulations that exhibits the recovery of virulence at or near the wild-type	
	Mpox virus clade I/II chimeric viruses resulting from any deliberate manipulation of	
	clade II to incorporate nucleic acids coding for clade I virulence factors	