

Additional File 6A. Validated and Potential Biological Weapons (Cellular)

Phylogeny	NCBI Name	Threat List Name or Synonym	Validated / Potential	Accession		
Fungi	Ascomycota	<i>Ajellomyces capsulatus</i>	Histoplasma capsulatum / histoplasmosis	Potential		
		<i>Coccidioides immitis</i>	Coccidioidomycosis	Potential		
	Basidiomycota	<i>Filobasidiella neoformans</i>	Cryptococcus neoformans / cryptococcosis	Potential	http://rcweb.bcgsc.bc.ca/cgi-bin/cryptococcus/cn.pl	
		<i>Ustilago tritici</i>		Validated		
Bacteria	Alphaproteobacteria	<i>Brucella mellitensis</i>	Brucellosis / Micrococcus mellitensis / Streptococcus mellitensis / Brucella mellitensis	Validated	NC_003317 NC_003318	
		<i>Brucella mellitensis biovar Abortus</i>	Brucellosis / Brucella abortus/ Bacterium abortus	Validated		
		<i>Brucella mellitensis biovar Suis</i>	Brucellosis / Brucella suis	Validated	NC_004310 NC_004311	
		<i>Orientia tsutsugamushi</i>	Rickettsia tsutsugamushi / Rickettsia akamushi / Rickettsia orientalis / Theileria tsutsugamushi	Potential		
		<i>Rickettsia prowazekii</i>	Typhus	Validated	NC_000963	
		<i>Rickettsia rickettsii</i>	Rocky Mountain Spotted Fever	Potential		
		<i>Rickettsia typhi</i>	Rickettsia mooseri / murine typhus	Potential		
	Betaproteobacteria	<i>Burkholderia mallei</i>	Glanders	Validated	NC_002970*	
		<i>Burkholderia pseudomallei</i>	Melioidosis / Pseudomonas pseudomallei	Validated	NC_002930* http://www.sanger.ac.uk/Projects/B_pseudomallei/	
	Gammaproteobacteria	<i>Coxiella burnetii</i>	Q fever	Validated	NC_002971	
		<i>Francisella tularensis</i>	Tularemia / Francisella novicida	Validated		
		<i>Legionella pneumophila</i>	legionellosis	Potential	NC_002942* http://genome3.cpmc.columbia.edu/~legion/	
		<i>Salmonella typhi</i>	typhoid / Bacillus typhi	Potential	NC_003198* http://www.sanger.ac.uk/Projects/S_typhi/	
		<i>Shigella dysenteriae</i>	Shigella	Validated	NC_004510* http://www.sanger.ac.uk/Projects/Escherichia_Shigella/	
		<i>Vibrio cholerae</i>	Cholera	Validated	NC_002505 NC_002506	
		<i>Vibrio cholerae O139</i>		Validated		
	Firmicutes	<i>Yersinia pestis</i>	Plague	Validated	NC_003143 NC_004088	
		<i>Bacillus anthracis</i>	Anthrax	Validated	NC_003997 NC_003995* NC_004352* NC_002925* NC_002925*	
	Actinobacteria	<i>Clostridium perfringens</i>		Validated	NC_003366	
		<i>Nocardia asteroides</i>	nocardiosis / Actinomyces asteroides / Actinomyces eppingeri	Potential		
	Chlamydia	<i>Chlamydia psittaci</i>	Chlamydia psittaci / psittacosis	Potential		
	Toxin (protein)	Bacteria, Low G+C gram positive, Clostridia	<i>Botulinum toxin</i>	Botulinal toxins	Validated	AF488749 AB088207 AB082519
			<i>Clostridium perfringens epsilon toxin</i>		Validated	M95206 M80837
		Bacteria, Low G+C gram positive, Bacilli	<i>Staphylococcal enterotoxin B</i>		Validated	M11118
		Bacteria, gammaproteobacteria	<i>Shigatoxin</i>		Potential	AB035142 AB035143 AF461169 AF461170 AF461170
		Animal, mollusca, gastropoda	<i>Conotoxins</i>		Potential	
	Plant, embryophyta	<i>Ricin</i>		Validated		
Toxins (small molecule)	Bacteria, gammaproteobacteria	<i>Tetradotoxin</i>		Potential		
	Protoists, alveolata	<i>Saxitoxin</i>		Potential		
	Fungi, ascomycota	<i>Aflatoxin</i>	mycotoxins	Validated		
		<i>Diacetoxyscirpenol</i>	mycotoxins	Validated		
		<i>T-2 toxin</i>	mycotoxins	Validated		
Animal, chordata, amphibia	<i>Batrachotoxin</i>		Potential			

Additional File 6B. Validated and Potential Biological Weapons (Viral)

Phylogeny	NCBI Name	Threat List Name or Synonym	Validated / Potential	Accession	
DNA Virus	Poxviridae	<i>Monkeypox virus</i>	Potential	NC_003310	
		<i>Variola major virus</i>	Smallpox	Validated	NC_001611
- Strand RNA Virus	Arenaviridae	<i>Junin virus</i>	Junin arenavirus	Potential	NC_005080 NC_005081
		<i>Lassa virus</i>		Potential	NC_004296 NC_004297
		<i>Lymphocytic choriomeningitis virus</i>	LCMV	Potential	NC_004291 NC_004294
		<i>Machupo virus</i>		Potential	NC_005078 NC_005079
	Bunyaviridae	<i>Crimean-Congo hemorrhagic fever virus</i>	CCHFV	Potential	NC_005301 NC_005300 NC_005302
		<i>Hantaan virus</i>	Korean hemorrhagic fever virus	Potential	NC_005222 NC_005219 NC_005218
		<i>Rift Valley fever virus</i>	RVFV / Lunyo virus	Potential	NC_002043 NC_002044 NC_002045
		<i>Seoul virus</i>	epidemic hemorrhagic fever virus	Potential	NC_005238 NC_005237 NC_005236
	Filoviridae	<i>Ivory Coast ebolavirus</i>	CIEBOV / Cote d'Ivoire Ebola virus	Potential	
		<i>Lake Victoria marburgvirus</i>	Lake Victoria marburgvirus	Potential	NC_001608
		<i>Reston ebolavirus</i>	REBOV / Ebola virus Reston	Potential	NC_004161
		<i>Sudan ebolavirus</i>	SEBOV / Ebolavirus Sudan	Potential	
		<i>Zaire ebolavirus</i>	ZEBOV	Potential	NC_002549
	+ Strand RNA Virus	Flaviviridae	<i>Dengue virus</i>		Potential
<i>Dengue virus type 1</i>			DEN-1	Potential	
<i>Dengue virus type 2</i>			DEN-2	Potential	NC_001474
<i>Dengue virus type 3</i>				Potential	
<i>Dengue virus type 4</i>			DEN4	Potential	
<i>Japanese encephalitis virus</i>			JEV	Potential	NC_001437
<i>Kyasanur forest disease virus</i>				Potential	
<i>Omsk hemorrhagic fever virus</i>			OHF	Potential	NC_005062
<i>Russian Spring-Summer encephalitis virus</i>			RSSE	Potential	
<i>St. Louis encephalitis virus</i>			SLEV	Potential	
<i>Yellow fever virus</i>		YFV / Flavivirus febricis	Potential	NC_002031	
Togaviridae		<i>Chikungunya virus</i>		Potential	NC_004162
		<i>Eastern equine encephalitis virus</i>	EEE / EEEV / Eastern equine encephalomyelitis virus	Potential	NC_003899
		<i>O'nyong-nyong virus</i>	ONN	Potential	NC_001512
		<i>Ross River virus</i>	RRV	Potential	NC_001544
		<i>Venezuelan equine encephalitis virus</i>	VEE / Venezuelan equine encephalomyelitis virus	Validated	NC_001449
	<i>Western equine encephalomyelitis virus</i>	Western equine encephalitis virus	Validated	NC_003908	