

# Additional File 5A. NIAID Priority Pathogens Category A

<i>Phylogeny</i>	<i>NCBI Name</i>	<i>Agency Name or Synonym</i>	<i>Accession</i>	
Bacteria	<a href="#">Gammaproteobacteria</a>	<i>Francisella tularensis</i>		
		<i>Yersinia pestis</i>	<a href="#">NC_003143</a> <a href="#">NC_004088</a>	
	<a href="#">Firmicutes</a>	<i>Bacillus anthracis</i>		<a href="#">NC_003997</a> <a href="#">NC_003995*</a> <a href="#">NC_004352*</a> <a href="#">NC_002925*</a> <a href="#">NC_004126*</a>
		<i>Clostridium botulinum</i>		<a href="#">NC_003223*</a> <a href="http://www.sanger.ac.uk/Projects/C_botulinum/">http://www.sanger.ac.uk/Projects/C_botulinum/</a>
DNA Virus	<a href="#">Poxviridae</a>	<i>Variola major virus</i>	<a href="#">NC_001611</a>	
- Strand RNA Virus	<a href="#">Arenaviridae</a>	<i>Guanarito virus</i>	<a href="#">NC_005077</a> <a href="#">NC_005082</a>	
		<i>Junin virus</i>	<a href="#">NC_005080</a> <a href="#">NC_005081</a>	
		<i>Lassa virus</i>	<a href="#">NC_004296</a> <a href="#">NC_004297</a>	
		<i>Lymphocytic choriomeningitis virus</i>	LCM	<a href="#">NC_004291</a> <a href="#">NC_004294</a>
		<i>Machupo virus</i>		<a href="#">NC_005078</a> <a href="#">NC_005079</a>
	<a href="#">Bunyaviridae</a>	<i>Andes virus</i>	Hantaviruses	<a href="#">NC_003468</a> <a href="#">NC_003467</a> <a href="#">NC_003466</a>
		<i>Bayou virus</i>	Hantaviruses	
		<i>Hantaan virus</i>	Hantaviruses	<a href="#">NC_005222</a> <a href="#">NC_005219</a> <a href="#">NC_005218</a>
		<i>Rift Valley fever virus</i>		<a href="#">NC_002043</a> <a href="#">NC_002044</a> <a href="#">NC_002045</a>
		<i>Sin Nombre virus</i>	Hantaviruses	<a href="#">NC_005217</a> <a href="#">NC_005215</a> <a href="#">NC_005216</a>
	<a href="#">Filoviridae</a>	<i>Ivory Coast ebolavirus</i>		
		<i>Lake Victoria marburgvirus</i>		<a href="#">NC_001608</a>
		<i>Reston ebolavirus</i>		<a href="#">NC_004161</a>
		<i>Sudan ebolavirus</i>		
		<i>Zaire ebolavirus</i>		<a href="#">NC_002549</a>
+ Strand RNA Virus	<a href="#">Flaviviridae</a>	<i>Dengue virus</i>		
		<i>Dengue virus type 1</i>		
		<i>Dengue virus type 2</i>	<a href="#">NC_001474</a>	
		<i>Dengue virus type 3</i>		
		<i>Dengue virus type 4</i>		

## Additional File 5B. NIAID Priority Pathogens Category B

Phylogeny	NCBI Name	Agency Name or Synonym	Accession			
Fungi	<a href="#">Microsporidia</a>	<i>Encephalitozoon cuniculi</i>	Microsporidia <sup>140</sup>	<a href="#">NC_003242</a>		
		<i>Encephalitozoon hellem</i>	Microsporidia <sup>140</sup>			
		<i>Encephalitozoon intestinalis</i>	Microsporidia <sup>140</sup>			
		<i>Enterocytozoon bieneusi</i>	Microsporidia <sup>140</sup>			
Eukaryota	<a href="#">Alveolata</a>	<i>Cryptosporidium parvum</i>			<a href="http://www.parvum.mic.vcu.edu/">http://www.parvum.mic.vcu.edu/</a>	
		<i>Cyclospora cayentanensis</i>				
		<i>Toxoplasma gondii</i>			<a href="http://www.sanger.ac.uk/Projects/T_gondii/">http://www.sanger.ac.uk/Projects/T_gondii/</a>	
	<a href="#">Diplomonadida</a>	<i>Giardia intestinalis</i>				
	<a href="#">Entamoebidae</a>	<i>Entamoeba histolytica</i>			<a href="http://www.sanger.ac.uk/Projects/E_histolytica/">http://www.sanger.ac.uk/Projects/E_histolytica/</a>	
Bacteria	<a href="#">Alphaproteobacteria</a>	<i>Brucella melitensis</i>	Brucella species <sup>108</sup>	<a href="#">NC_003317</a>	<a href="#">NC_003318</a>	
		<i>Brucella melitensis biovar Abortus</i>	Brucella species <sup>108</sup>			
		<i>Brucella melitensis biovar Canis</i>	Brucella species <sup>108</sup>			
		<i>Brucella melitensis biovar Suis</i>	Brucella species <sup>108</sup>	<a href="#">NC_004310</a>	<a href="#">NC_004311</a>	
		<i>Rickettsia prowazekii</i>	Typhus fever	<a href="#">NC_000963</a>		
		<a href="#">Betaproteobacteria</a>	<i>Burkholderia mallei</i>		<a href="#">NC_002970*</a>	
			<i>Burkholderia pseudomallei</i>		<a href="#">NC_002930*</a>	<a href="http://www.sanger.ac.uk/Projects/B_pseudomallei/">http://www.sanger.ac.uk/Projects/B_pseudomallei/</a>
		<a href="#">Epsilonproteobacteria</a>	<i>Campylobacter jejuni</i>		<a href="#">NC_002163</a>	
		<a href="#">Gammaproteobacteria</a>	<i>Coxiella burnetii</i>		<a href="#">NC_002971</a>	
			<i>Escherichia coli</i>		<a href="#">NC_004431</a>	<a href="#">NC_000913</a>
			<i>Escherichia coli O157:H7</i>		<a href="#">NC_002695</a>	<a href="#">NC_002655</a>
			<i>Salmonella typhi</i>	Salmonella	<a href="#">NC_003198*</a>	<a href="http://www.sanger.ac.uk/Projects/S_typhi/">http://www.sanger.ac.uk/Projects/S_typhi/</a>
			<i>Shigella boydii</i>	Shigella species <sup>114</sup>		
			<i>Shigella dysenteriae</i>	Shigella species <sup>114</sup>	<a href="#">NC_004510*</a>	<a href="http://www.sanger.ac.uk/Projects/Escherichia_Shigella/">http://www.sanger.ac.uk/Projects/Escherichia_Shigella/</a>
			<i>Shigella flexneri</i>	Shigella species <sup>114</sup>	<a href="#">NC_004337</a>	<a href="#">NC_004741</a>
			<i>Shigella sonnei</i>	Shigella species <sup>114</sup>	<a href="#">NC_004511*</a>	<a href="http://www.sanger.ac.uk/Projects/Escherichia_Shigella/">http://www.sanger.ac.uk/Projects/Escherichia_Shigella/</a>
			<i>Vibrio cholerae</i>	Pathogenic Vibrios <sup>117</sup>	<a href="#">NC_002505</a>	<a href="#">NC_002506</a>
		<i>Vibrio cholerae O139</i>	Pathogenic Vibrios <sup>117</sup>			
		<i>Vibrio mimicus</i>	Pathogenic Vibrios <sup>117</sup>			
		<i>Vibrio parahaemolyticus</i>	Pathogenic Vibrios <sup>117</sup>	<a href="#">NC_004603</a>	<a href="#">NC_004605</a>	
		<i>Vibrio vulnificus</i>	Pathogenic Vibrios <sup>117</sup>	<a href="#">NC_004459</a>	<a href="#">NC_004460</a>	
		<i>Yersinia enterocolitica</i>		<a href="#">NC_003222*</a>	<a href="#">NC_005139</a> <a href="#">NC_005140</a>	
	<a href="#">Firmicutes</a>	<i>Listeria monocytogenes</i>		<a href="#">NC_003210</a>	<a href="http://www.sanger.ac.uk/Projects/Y_enterocolitica/">http://www.sanger.ac.uk/Projects/Y_enterocolitica/</a>	
- Strand RNA Virus	<a href="#">Bunyaviridae</a>	<i>California encephalitis virus</i>		<a href="#">NC_004108</a>	<a href="#">NC_004109</a> <a href="#">NC_004110</a>	
		<i>La Crosse virus</i>				
+ Strand RNA Virus	<a href="#">Caliciviridae</a>	<i>Norwalk virus</i>	Caliciviruses	<a href="#">NC_001959</a>		
		<i>Japanese encephalitis virus</i>		<a href="#">NC_001437</a>		
	<a href="#">Flaviviridae</a>	<i>Kyasanur forest disease virus</i>				
		<i>West Nile virus</i>			<a href="#">NC_001563</a>	
		<i>Hepatitis A virus</i>			<a href="#">NC_001489</a>	
	<a href="#">Picornaviridae</a>	<i>Eastern equine encephalitis virus</i>	EEE	<a href="#">NC_003899</a>		
	<a href="#">Togaviridae</a>	<i>Venezuelan equine encephalitis virus</i>	VEE	<a href="#">NC_001449</a>		
		<i>Western equine encephalomyelitis virus</i>	WEE	<a href="#">NC_003908</a>		
		<i>Clostridium perfringens epsilon toxin</i>			<a href="#">M95206</a>	<a href="#">M80837</a>
	Toxin (protein)	<a href="#">Bacteria, Low G+C gram positive, Clostridia</a>	<i>Staphylococcal enterotoxin B</i>		<a href="#">M11118</a>	
<a href="#">Bacteria, Low G+C gram positive, Bacilli</a>		<i>Ricin</i>				
<a href="#">Plant, embryophyta</a>						

## Additional File 5C. NIAID Priority Pathogens Category C

Phylogeny	NCBI Name	Agency Name or Synonym	Accession		
Bacteria	<a href="#">Alphaproteobacteria</a>	<i>Rickettsia conorii</i>	Other Rickettsias <sup>140</sup>	<a href="#">NC_003103</a>	
		<i>Rickettsia rickettsii</i>	Other Rickettsias <sup>140</sup>	<a href="#">NZ_AADJ01000001</a>	
		<i>Rickettsia typhi</i>	Other Rickettsias <sup>140</sup>		
	<a href="#">Actinobacteria</a>	<i>Mycobacterium tuberculosis</i>		<a href="#">NC_002755</a>	<a href="#">NC_000962</a>
- Strand RNA Virus	<a href="#">Bunyaviridae</a>	<i>Crimean-Congo hemorrhagic fever virus</i>		<a href="#">NC_005301</a>	<a href="#">NC_005300</a> <a href="#">NC_005302</a>
		<i>Influenza A virus</i>		<a href="#">NC_004905</a>	<a href="#">NC_004518</a> <a href="#">NC_002016</a>
	<a href="#">Orthomyxoviridae</a>	<i>Influenza B virus</i>		<a href="#">NC_004791</a>	<a href="#">NC_004784</a> <a href="#">NC_002204</a>
		<i>Influenza C virus</i>			
	<a href="#">Rhabdoviridae</a>	<i>Rabies virus</i>		<a href="#">NC_001542</a>	
+ Strand RNA Virus	<a href="#">Flaviviridae</a>	<i>Tick-borne encephalitis virus</i>		<a href="#">NC_001672</a>	
		<i>Yellow fever virus</i>		<a href="#">NC_002031</a>	
	<a href="#">Coronaviridae</a>	<i>SARS coronavirus</i>		<a href="#">NC_004718</a>	