

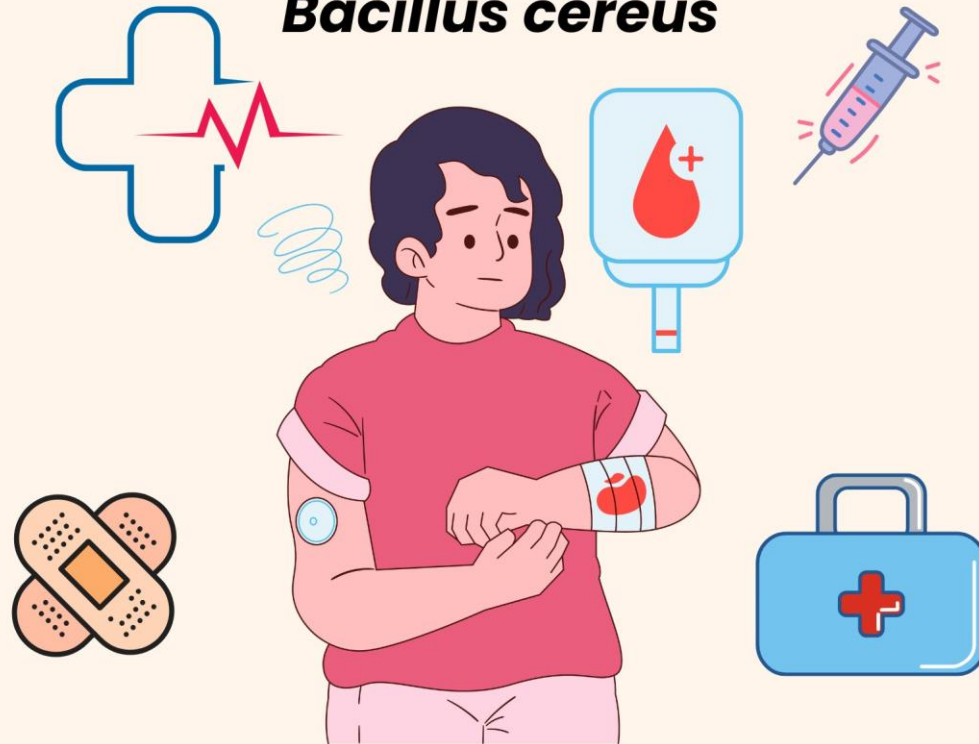


Government of India
Ministry of Science & Technology
Department of Biotechnology



One Day One Genome

Bacillus cereus



The strain contributes to tissue necrosis and
poor wound outcomes

Quality of Genome Assembly and Annotation:

Results from indigenously developed **BHARAT** analysis pipeline: (**B**acterial **H**ybrid genome **A**ssembly and **R**apid **A**nnnotation **T**oolset)

Table 1: Assembly Details	
Contigs	793
GC Content	34.17
Contig L50	234
Genome length	1,536,660 bp
Contig N50	2,053

Table 2: Annotated Genome Features	
CDS	2,322
tRNA	22
rRNA	4

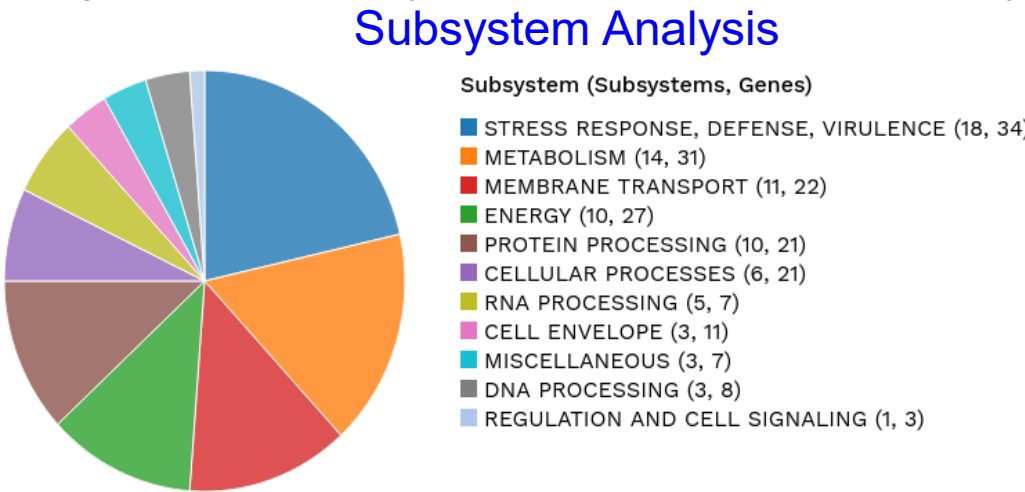


Table 3: Antimicrobial Resistance Genes	
AMR Mechanism	Genes
Antibiotic inactivation enzyme	CatA15/A16 family
Antibiotic target modifying enzyme	Cfr, RlmA(II)
Antibiotic target protection protein	BcrC
Protein altering cell wall charge conferring antibiotic resistance	GdpD
Efflux pump conferring antibiotic resistance	BcrA, BcrB, YkkCD

Genome Assembly

