Government of India
Ministry of Science & Technology
Department of Biotechnology

BRIC NIBMG

One Day One Genome

Bacteroides fragilis

**Produces toxins, biofilms;
and complicates wound healing**

Bacteroides fragilis **(NIBMG_HMR_DFU_AN_22_1.2)** **Genome Accession Number: INS0022521**

Quality of Genome Assembly and Annotation:

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

Table 1: Assembly Details	
Contigs	126
GC Content	40.46
Contig L50	7
Genome length	7,604,555 bp
Contig N50	308,606

Table 2: Annotated Genome Features	
CDS	7,062
tRNA	96
Repeat Regions	11
rRNA	5

Subsystem Analysis

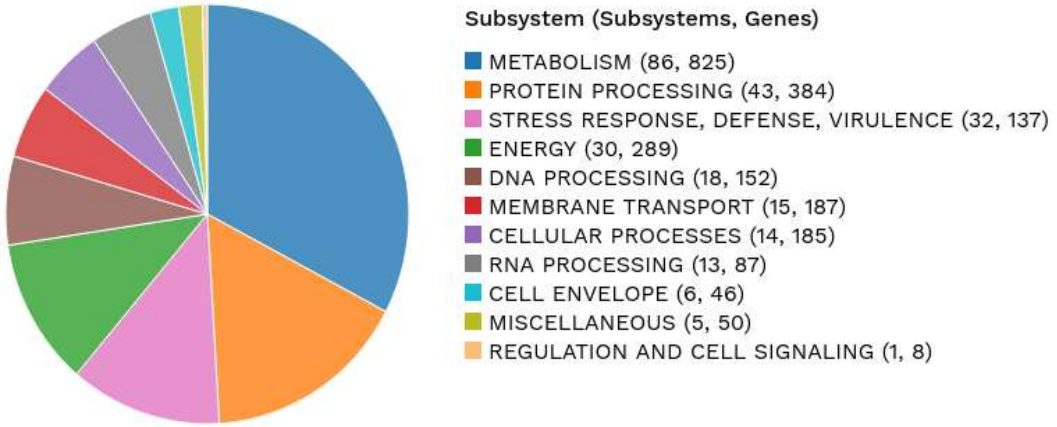

Table 3: Antimicrobial Resistance Genes	
AMR Mechanism	**Genes**
Antibiotic inactivation enzyme	CepA family, CfxA family, NimB
Antibiotic target modifying enzyme	Erm(F)/Erm(35)
Antibiotic target in susceptible species	Alr, Ddl, dxr, EF-G, EF-Tu, folA, Dfr, folP, gyrA, gyrB, inhA, fabI, Iso-tRNA, kasA, MurA, rho, rpoB, rpoC, S10p, S12p
Protein altering cell wall charge conferring antibiotic resistance	GdpD, PgsA
Efflux pump conferring antibiotic resistance	Mef(A)
Regulator modulating expression of antibiotic resistance genes	OxyR

Genome Assembly