Government of India
Ministry of Science & Technology
Department of Biotechnology

BRIC a DBT Organization
NBMG राष्ट्रीय जैवचिकित्सा जीनोमिक्स संस्थान National Institute of Biomedical Genomics

one day one genome

Brachybacterium sp

benifitial roles

nitrogen metabolism

ph

skin microbe interaction

***Brachybacterium sp.* (NIBMG_HMR_CI1)** **Genome Accession Number: INS0017123**

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	29
GC Content	72.17
Contig L50	5
Genome length	3,901,622 bp
Contig N50	306,817

Table 2: Annotated Genome Features	
CDS	3,666
tRNA	52
Repeat Regions	0
rRNA	2

Subsystem Analysis

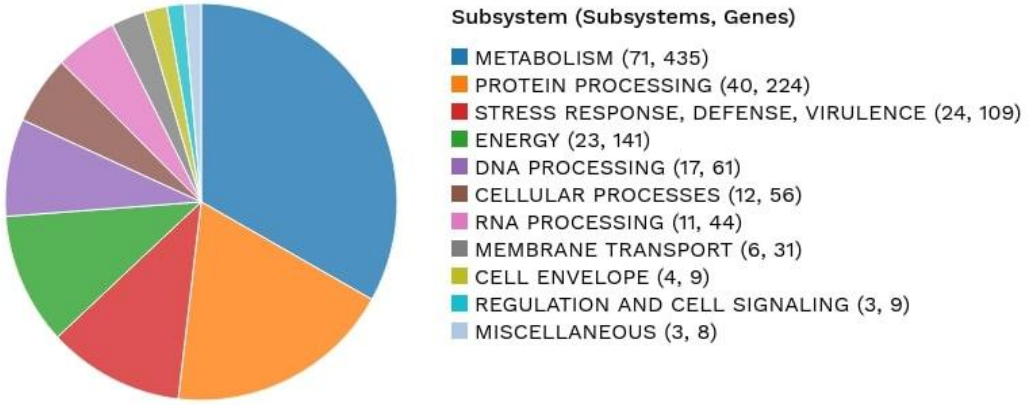

Table 3: Antimicrobial Resistance Genes	
AMR Mechanism	**Genes**
Antibiotic target in susceptible species	Alr, Ddl, dxr, EF-G, EF-Tu, folA, Dfr, folP, gyrA, gyrB, Iso-tRNA, kasA, MurA, rho, rpoB, rpoC, S10p, S12p
Antibiotic target modifying enzyme	Erm(36)
Antibiotic target replacement protein	FabG, FabL-like, HtdX
Gene conferring resistance via absence	gidB
Protein altering cell wall charge conferring antibiotic resistance	GdpD, PgsA

Genome Assembly