



Government of India
Ministry of Science & Technology
Department of Biotechnology



राष्ट्रीय जैववैज्ञानिक
जीनोमिक्स संस्थान
National Institute of
Biomedical Genomics

One Day One Genome

Corynebacterium sp.



**PROMOTES SKIN HEALTH BY MAINTAINING
MICROBIAL HOMEOSTASIS**

Corynebacterium sp. (NIBMG_HMR_CI3)

Genome Accession Number: INS0017122

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	21
GC Content	60.00
Contig L50	2
Genome length	2,642,658 bp
Contig N50	652,881

Table 2: Annotated Genome Features	
CDS	2,455
tRNA	54
Repeat Regions	12
rRNA	3

Subsystem Analysis

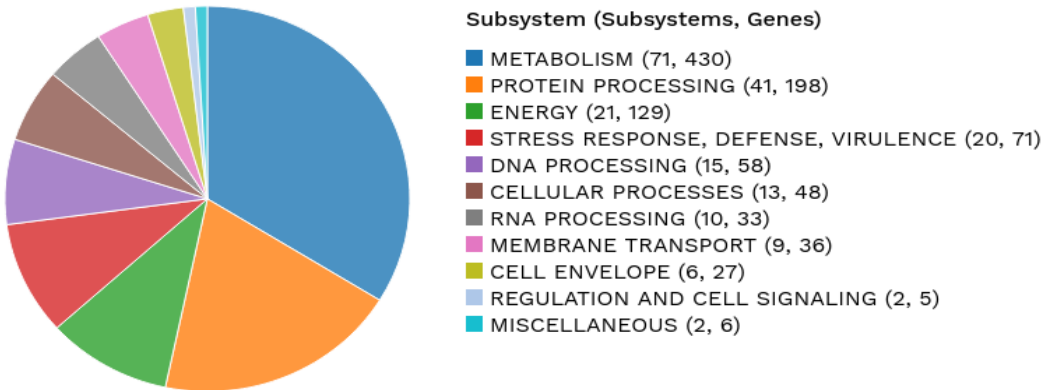


Table 3: Antimicrobial Resistance Genes	
AMR Mechanism	Genes
Antibiotic inactivation enzyme	APH(3'')-I, APH(3')-I, APH(6)-Ic/APH(6)-Id
Antibiotic target in susceptible species	Alr, Ddl, dxr, EF-G, EF-Tu, folA, Dfr, folP, gyrA, gyrB, Iso-tRNA, MurA, rho, rpoB, rpoC, S10p, S12p
Antibiotic target modifying enzyme	Erm(X)
Antibiotic target replacement protein	FabG
Gene conferring resistance via absence	gidB
Protein altering cell wall charge conferring antibiotic resistance	GdpD, PgsA

Genome Assembly

