



Government of India
Ministry of Science & Technology
Department of Biotechnology



ONE DAY ONE GENOME

Gulbenkiana indica



**The novel species enhances our understanding of
microbial diversity in geothermal habitats**

Gulbenkiania indica

Genome Accession Number: LION000000000

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	20
GC Content	63.64
Contig L50	3
Genome length	2,848,002 bp
Contig N50	508,064

Table 2: Annotated Genome Features	
CDS	2,757
tRNA	62
Repeat Regions	7
rRNA	5

Subsystem Analysis

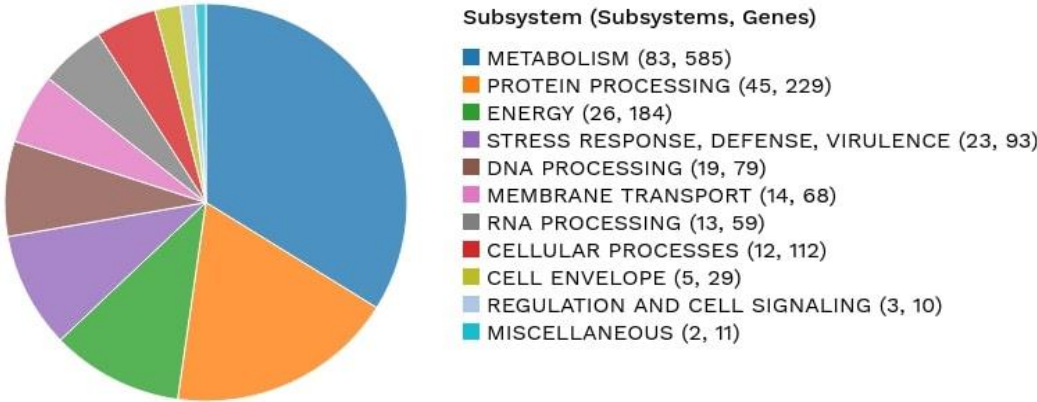


Table 3: Antimicrobial Resistance Genes	
AMR Mechanism	Genes
Antibiotic target in susceptible species	Alr, Ddl, dxr, EF-G, EF-Tu, folA, Dfr, folP, gyrA, gyrB, inhA, fabI, Iso-tRNA, kasA, MurA, rho, rpoB, rpoC, S10p, S12p
Efflux pump conferring antibiotic resistance	EmrAB-TolC, MacA, MacB
Gene conferring resistance via absence	gidB
Protein altering cell wall charge conferring antibiotic resistance	GdpD, PgsA
Regulator modulating expression of antibiotic resistance genes	EmrAB-TolC, OxyR

Genome Assembly

