

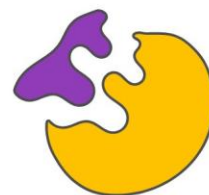


ONE DAY ONE GENOME

Anoxybacillus suryakundensis novel sp.

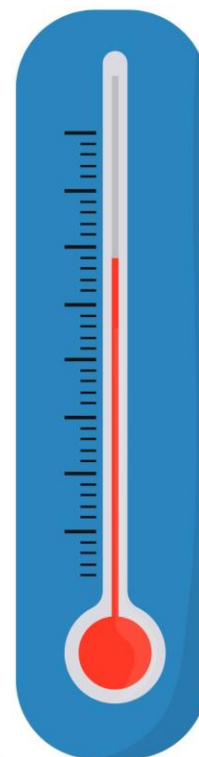
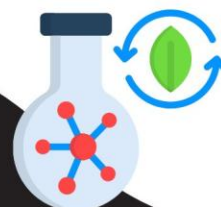
Applications in Industrial Biotechnology

Thermostable
hydrolases



Use in high-temperature
processes

Waste treatment
by bioremediation



Quality of Genome Assembly and Annotation:

Results from indigenously developed BHARAT analysis pipeline: (Bacterial Hybrid genome Assembly and Rapid Annotation Toolset)

Table 1: Assembly Details		Table 2: Annotated Genome Features	
Contigs	41	CDS	2,775
GC Content	41.51	tRNA	62
Contig L50	7	Repeat Regions	50
Genome length	2,594,657 bp	rRNA	10
Contig N50	169,221		

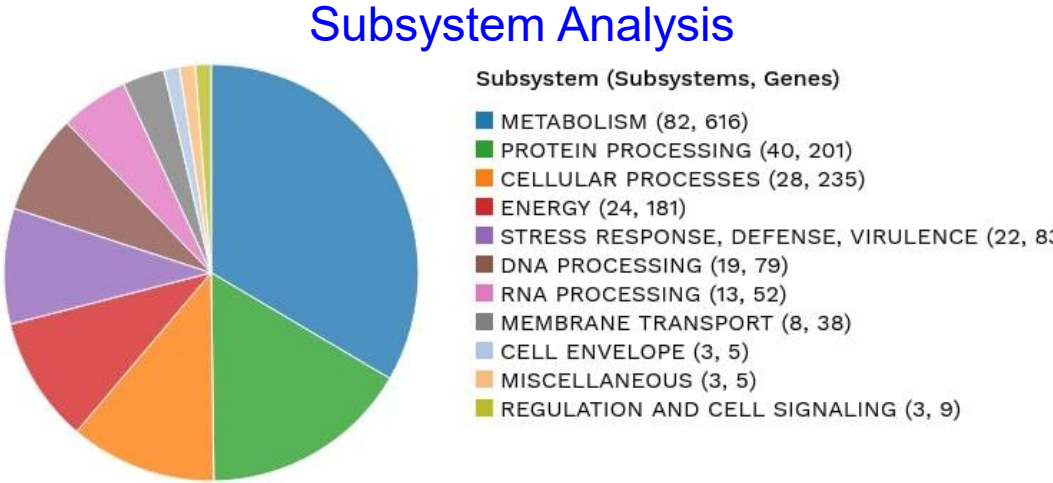


Table 3: Antimicrobial Resistance Genes	
AMR Mechanism	Genes
Antibiotic target in susceptible species	Alr, Ddl, dxr, EF-G, EF-Tu, folA, Dfr, folP, gyrA, gyrB, inhA, fabI, Iso-tRNA, kasA, MurA, rho, rpoB, rpoC, S10p, S12p
Antibiotic activation enzyme	KatG
Gene conferring resistance via absence	gidB
Protein altering cell wall charge conferring antibiotic resistance	GdpD, PgsA

