

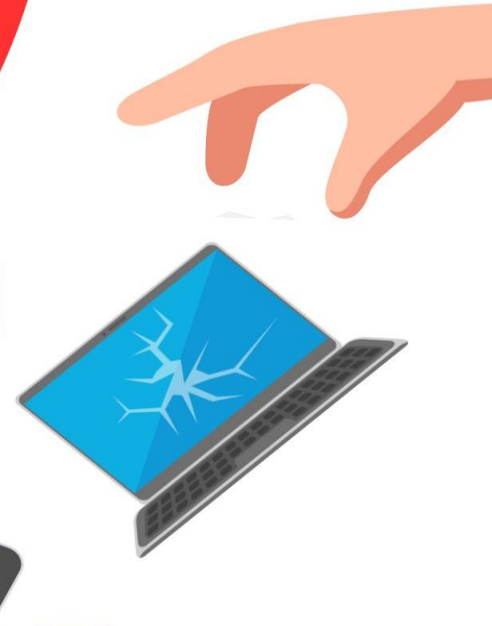


Government of India
Ministry of Science & Technology
Department of Biotechnology



ONE DAY ONE GENOME

*Pseudomonas
lalkuanensis*



Breaks down **E-waste**
pollutants, and
features a versatile
enzyme suite for
stress response

Pseudomonas lalkuanensis

Genome Accession Number: CP043311

Quality of Genome Assembly and Annotation:

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

Table 1: Assembly Details	
Contigs	1
GC Content	64.24
Contig L50	1
Genome length	6,056,953 bp
Contig N50	6,056,953

Table 2: Annotated Genome Features	
CDS	5,569
tRNA	73
Repeat Regions	40
rRNA	16

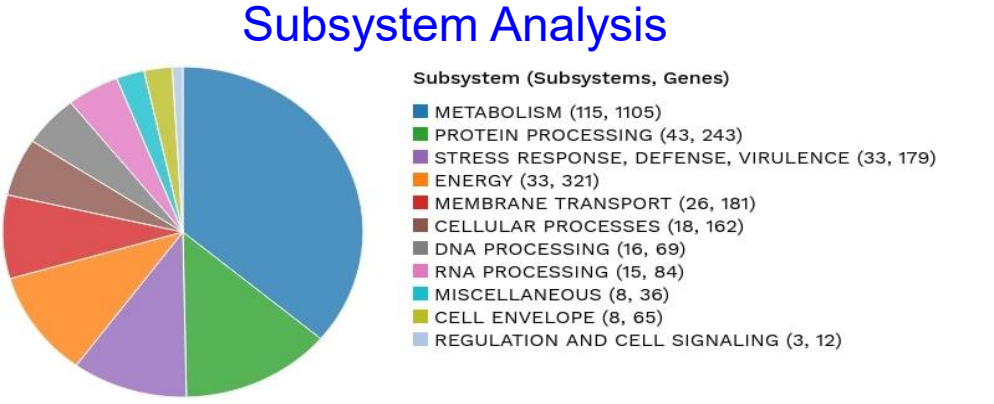


Table 3: Antimicrobial Resistance Genes	
AMR Mechanism	Genes
Antibiotic target in susceptible species	Alr, Ddl, dxr, EF-G, EF-Tu, folA, Dfr, folP, gyrA, gyrB, inhA, fabI, Iso-tRNA, kasA, MurA, rho, rpoB, rpoC, S10p, S12p
Antibiotic target replacement protein	FabG, HtdX
Efflux pump conferring antibiotic resistance	MacA, MacB, MdtABC-OMF, MdtABC-TolC, MexAB-OprM, MexCD-OprJ, MexCD-OprJ system, MexEF-OprN, MexEF-OprN system, MexJK-OprM/OpmH, MexVW-OprM, TolC/OpmH
Gene conferring resistance via absence	gidB
Protein altering cell wall charge conferring antibiotic resistance	GdpD, PgsA
Regulator modulating expression of antibiotic resistance genes	OxyR

Genome Assembly

