



One Day One Genome



Micrococcus luteus

Helps uncover the adaptive traits that support its persistence
and highlights its role within the dynamic wound microbiome

Micrococcus luteus

Genome Accession Number: INS0025499

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	60
GC Content	73.03
Contig L50	9
Genome length	2,507,328 bp
Contig N50	95,075

Table 2: Annotated Genome Features	
CDS	2,381
tRNA	48
Repeat Regions	6
rRNA	2

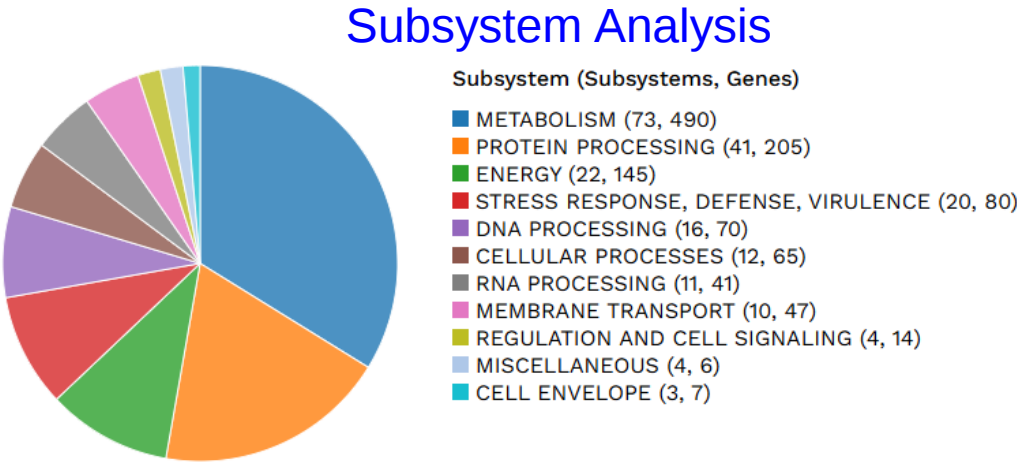


Table 3: Antimicrobial Resistance Genes	
AMR Mechanism	Genes
Antibiotic target replacement protein	FabG, FabL-like, HtdX
Antibiotic target in susceptible species	Alr, Ddl, dxr, EF-G, EF-Tu, folA, Dfr, folP, gyrA, gyrB, Iso-tRNA, kasA, MurA, rho, rpoB, rpoC, S10p, S12p
Protein altering cell wall charge conferring antibiotic resistance	GdpD, PgsA
Gene conferring resistance via absence	gidB
Regulator modulating expression of antibiotic resistance genes	LpqB, MtrA, MtrB

Genome Assembly

