



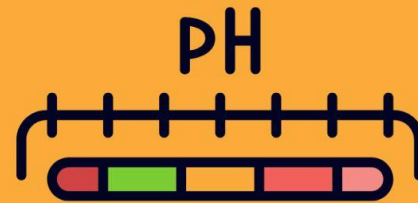
Government of India
Ministry of Science & Technology
Department of Biotechnology



One Day One Genome



Kocuria indica



The commensal
bacteria helps in
maintaining skin pH

Genome sequencing sheds
light on its beneficial role,
aiding clinical diagnostics
and novel therapeutic
strategies



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	476
GC Content	69.50
Contig L50	108
Genome length	2,177,040 bp
Contig N50	6,229

Table 2: Annotated Genome Features	
CDS	2,290
tRNA	39
rRNA	2

Subsystem Analysis

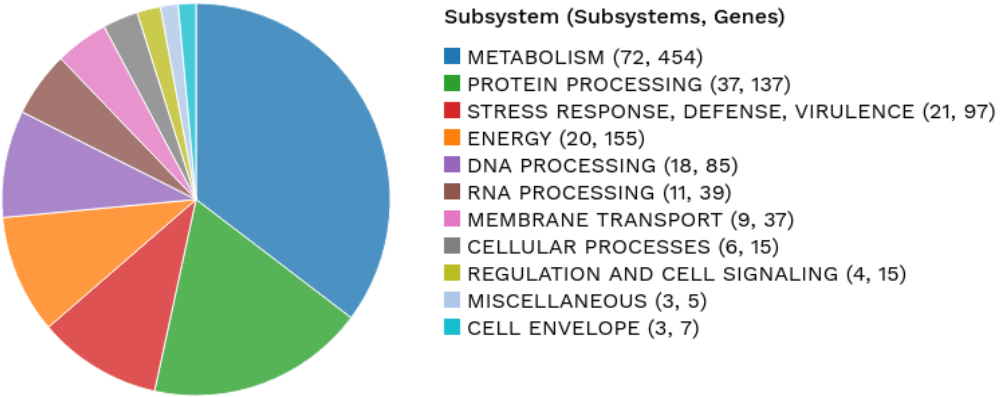


Table 3: Antimicrobial Resistance Genes	
AMR Mechanism	Genes
Antibiotic target replacement protein	FabG, FabL-like, HtdX
Antibiotic target in susceptible species	Alr, Ddl, dxr, EF-G, EF-Tu, folA, Dfr, folP, gyrA, gyrB, Iso-tRNA, kasA, MurA, rho, rpoB, rpoC, S10p, S12p
Protein altering cell wall charge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

Genome Assembly

