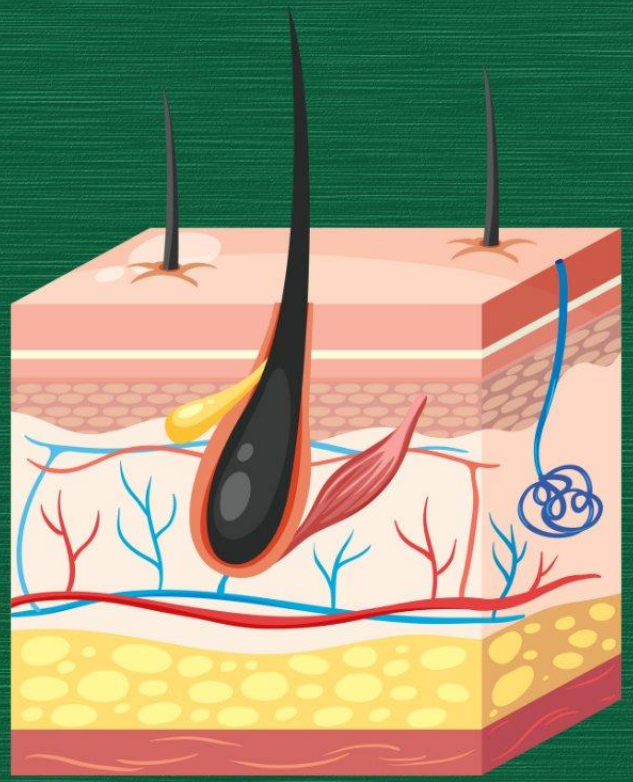
Government of India
Ministry of Science & Technology
Department of Biotechnology
सत्यमेव जयते

BRIC a DBT Organization
NBMG
राष्ट्रीय जैवचिकित्सा जीनोमिक्स संस्थान
National Institute of Biomedical Genomics

ONE DAY ONE GENOME

Kocuria sp



PROTECTIVE BARRIER OF THE SKIN MICROBIOME

TOLERANCE TO OXIDATIVE STRESS ON THE SKIN SURFACE

***Kocuria sp.* (NIBMG_HMR_CI11)** **Genome Accession Number: INS0017145**

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	48
GC Content	68.98
Contig L50	5
Genome length	3,036,871 bp
Contig N50	239,505

Table 2: Annotated Genome Features	
CDS	2,747
tRNA	48
Repeat Regions	0
rRNA	2

Subsystem Analysis

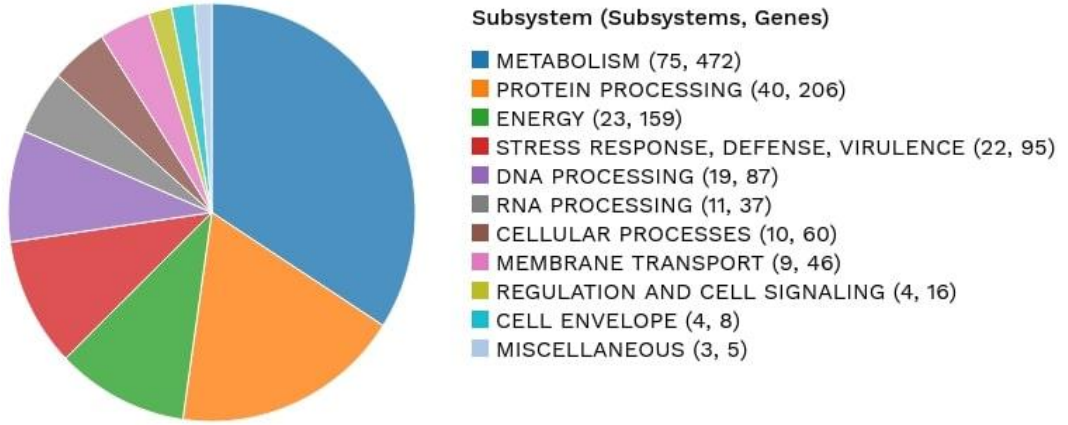


Table 3: Antimicrobial Resistance Genes	
AMR Mechanism	**Genes**
Antibiotic target in susceptible species	Alr, Ddl, dxr, EF-G, EF-Tu, folA, Dfr, folP, gyrA, gyrB, Iso-tRNA, kasA, MurA, rho, rpoB, rpoC, S10p, S12p
Antibiotic target replacement protein	FabG, FabL-like, HtdX
Efflux pump conferrring antibiotic resistance	CmlR family
Gene conferring resistance via absence	gidB
Protein altering cell wall charge conferring antibiotic resistance	GdpD, PgsA

Genome Assembly