Government of India
Ministry of Science & Technology
Department of Biotechnology

सत्यमेव जयते

BRIC
a DBT Organization

NIBMG
राष्ट्रीय जैवचिकित्सा जीनोमिक्स संस्थान
National Institute of Biomedical Genomics

One Day One Genome

Rothia amarae

Sequencing highlights the importance of understanding the functional aspects of microbe in maintaining skin health.

Rothia amarae **(NIBMG_HMR_CI7)** **Genome Accession Number: INS0016143**

Quality of Genome Assembly and Annotation:

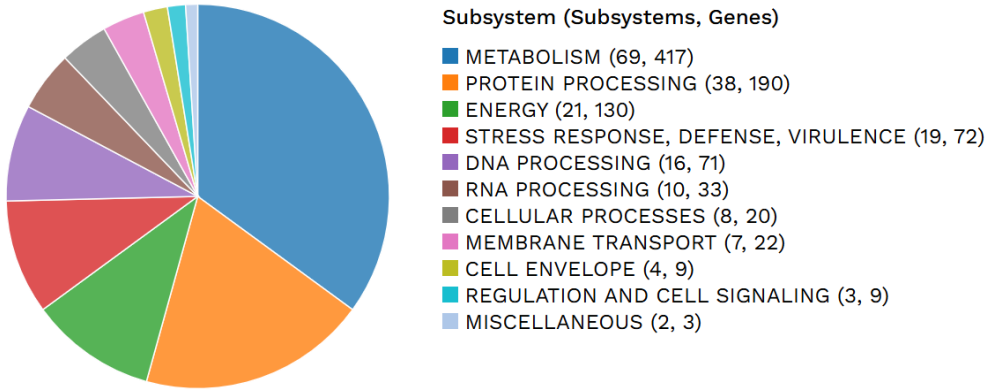
Results from indigenously developed **BHARAT** analysis pipeline: (**B**acterial **H**ybrid genome **A**ssembly and **R**apid **A**nnotation **T**oolset)

Table 1: Assembly Details	
Contigs	18
GC Content	52.21 %
Contig L50	4
Genome length	2,359,585 bp
Contig N50	239,814

Table 2: Annotated Genome Features	
CDS	2,197
tRNA	48
Repeat Regions	0
rRNA	2

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	FabL-like
Regulator modulating expression of antibiotic resistance genes	MtrA, MtrB
Protein altering cell wall charge conferring antibiotic resistance	GdpD, PgsA

Subsystem Analysis



Genome Assembly