



Government of India
Ministry of Science & Technology
Department of Biotechnology

One Day One Genome

Staphylococcus warneri



Isolated from human skin
swab

Upper respiratory tract
microbiome

Producing antimicrobial
compounds

Genome sequencing highlights the importance of microbe in maintaining skin health

Staphylococcus warneri (NIBMG_HMR_CI8)

Genome Accession Number: INS0016144

Quality of Genome Assembly and Annotation:

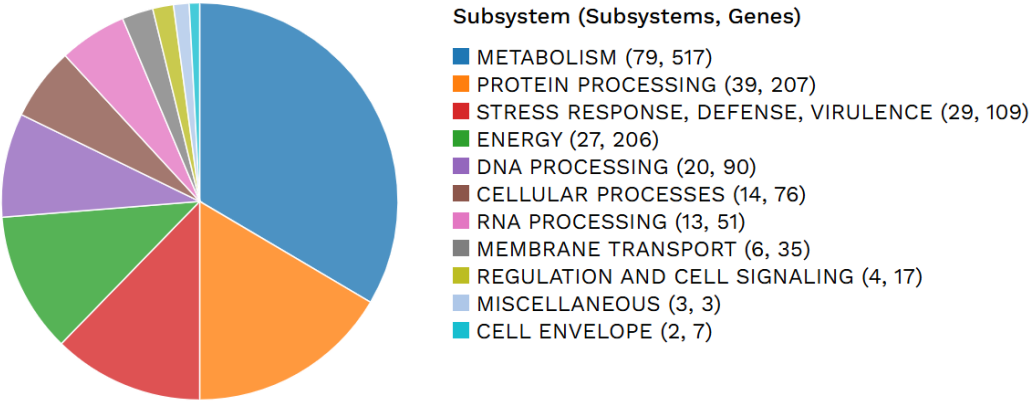
Results from indigenously developed **BHARAT** analysis pipeline: (**B**acterial **H**ybrid genome **A**ssembly and **R**apid **A**nnotation **T**oolset)

Table 1: Assembly Details	
Contigs	35
GC Content	32.52 %
Contig L50	3
Genome length	2,491,703 bp
Contig N50	178,573

Table 2: Annotated Genome Features	
CDS	2,422
tRNA	60
Repeat Regions	0
rRNA	3

Table 3: Antimicrobial Resistance Genes	
AMR Mechanism	Genes
Antibiotic resistance gene cluster, cassette, or operon	TcaA, TcaB, TcaB2, TcaR
Antibiotic target in susceptible species	Alr, Ddl, EF-G, EF-Tu, folA, Dfr, folP, gyrA, gyrB, inhA, fabI, Iso-tRNA, kasA, MurA, rho, rpoB, rpoC, S10p, S12p
Efflux pump conferring antibiotic resistance	BceA, BceB, NorA, YkkCD
Regulator modulating expression of antibiotic resistance genes	BceR, BceS, LiaF, LiaR, LiaS
Antibiotic inactivation enzyme	FosB
Protein altering cell wall charge conferring antibiotic resistance	GdpD, MprF, PgsA

Subsystem Analysis



Genome Assembly

