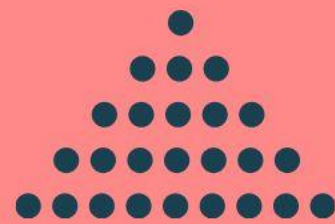


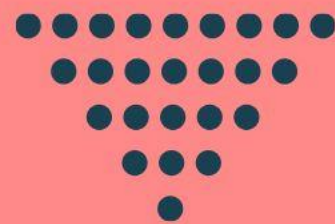


Government of India
Ministry of Science & Technology
Department of Biotechnology



ONE DAY ONE GENOME

Staphylococcus lugdunensis



It possesses distinctive genetic features that support its adaptability and interaction within the skin and wound environment

Staphylococcus lugdunensis

Genome Accession Number: INS0025496

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	24
GC Content	33.69
Contig L50	3
Genome length	2,584,975 bp
Contig N50	170,235

Table 2: Annotated Genome Features	
CDS	2,470
tRNA	51
rRNA	5

Subsystem Analysis

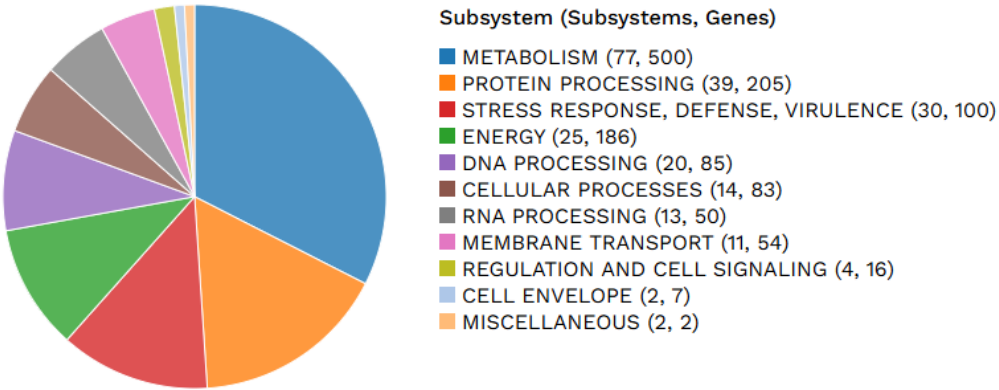


Table 3: Antimicrobial Resistance Genes	
AMR Mechanism	Genes
Antibiotic resistance gene cluster,cassette,or operon	TcaB, TcaB2, TcaR
Antibiotic target in susceptible species	Alr, Ddl, EF-G, EF-Tu, folA, Dfr, folP, gyrA, gyrB, inhA, fabI, Iso-tRNA, kasA, MurA, rho, rpoB, rpoC, S10p, S12p
Protein altering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

Genome Assembly

