



Government of India
Ministry of Science & Technology
Department of Biotechnology



One Day One Genome

Staphylococcus haemolyticus



Isolated from a diabetic foot ulcer, genomic insights of strain will aid resistance tracking and therapeutic planning

Table 1: Assembly Details	
Contigs	115
GC Content	32.61
Contig L50	12
Genome length	2,517,152 bp
Contig N50	55,179

Table 2: Annotated Genome Features	
CDS	2,483
tRNA	59
rRNA	3

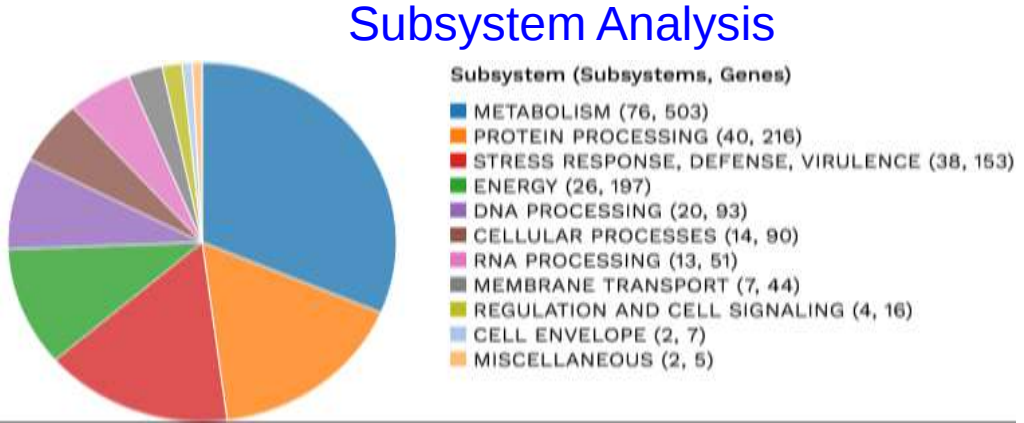


Table 3: Antimicrobial Resistance Genes	
AMR Mechanism	Genes
Antibiotic inactivation enzyme	ANT(6)-I, APH(3')-III/APH(3')-IV/APH(3')-VI/APH(3')-VII, BlaZ family
Antibiotic target protection protein	Lsa(B)
Antibiotic target in susceptible species	Alr, Ddl, EF-G, EF-Tu, folA, Dfr, folP, gyrA, gyrB, inhA, fabI, Iso-tRNA, kasA, MurA, rho, rpoB, rpoC, S10p, S12p
Gene conferring resistance via absence	gidB
Protein altering cell wall charge conferring antibiotic resistance	GdpD, MprF, PgsA
Efflux pump conferring antibiotic resistance	BceA, BceB, NorA, YkkCD
Regulator modulating expression of antibiotic resistance genes	BceR, BceS, LiaF, LiaR, LiaS

