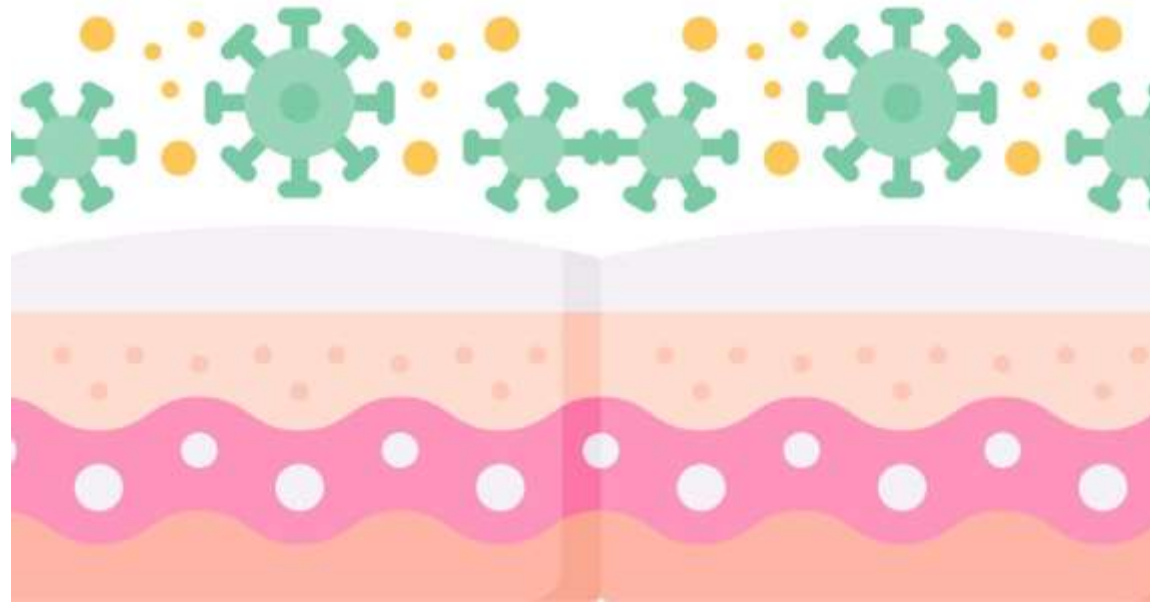




ONE DAY ONE GENOME

Staphylococcus hominis

It helps in maintaining skin barrier integrity
by killing opportunistic bacteria



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	144
GC Content	36.03
Contig L50	11
Genome length	8,011,753 bp
Contig N50	267,403

Table 2: Annotated Genome Features	
CDS	7,764
tRNA	148
Repeat Regions	21
rRNA	13

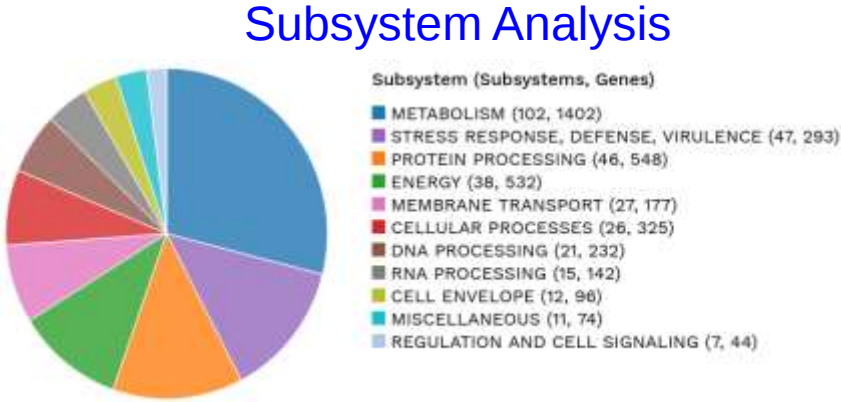


Table 3: Antimicrobial Resistance Genes	
AMR Mechanism	Genes
Antibiotic inactivation enzyme	BlaZ family, CatA1/CatA4 family, Mph(C) family, Mph(E)/Mph(G) family
Antibiotic target protection protein	BcrC, Lsa(A), Msr(A), QnrB family, Tet(M)
Antibiotic target in susceptible species	Alr, Ddl, dxr, EF-G, 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	AcrAB-TolC, AcrZ, BceA, BceB, EmrAB-TolC, MacA, MacB, MdtABC-TolC, MdtL, MexHI-OpmD, NorA, QacE, SugE, Tet(J), Tet(L), TolC/OpmH, YkkCD
Regulator modulating expression of antibiotic resistance genes	AcrAB-TolC, BceR, BceS, EmrAB-TolC, H-NS, LiaF, LiaR, LiaS, OxyR

Genome Assembly

