

ONE DAY ONE GENOME

Proteus mirabilis

01

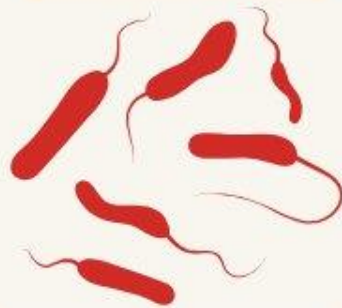
05

02

04

03

Swarming
motility



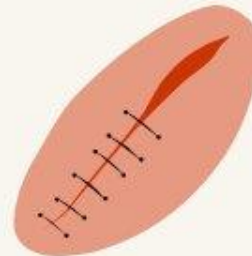
Biofilm
formation



Urease activity



Concern in
Wound care



Resistance
mechanisms



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	105
GC Content	38.49
Contig L50	10
Genome length	3,964,186 bp
Contig N50	117,096

Table 2: Annotated Genome Features	
CDS	3,777
tRNA	77
Repeat Regions	0
rRNA	4

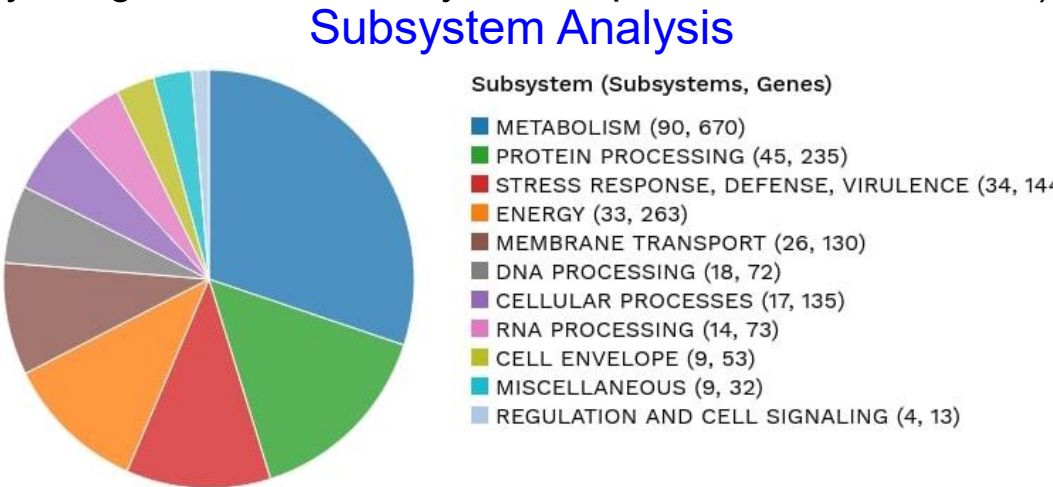


Table 3: Antimicrobial Resistance Genes	
AMR Mechanism	Genes
Antibiotic target in susceptible species	Alr, Ddl, dxr, EF-G, EF-Tu, folA, Dfr, folP, gyrA, gyrB, inhA, fabI, Iso-tRNA, kasA, MurA, rho, rpoB, rpoC, S10p, S12p
Antibiotic inactivation enzyme	CatA1/CatA4 family
Efflux pump conferring antibiotic resistance	AcrAB-TolC, AcrZ, EmrAB-TolC, MacA, MacB, MdtABC-TolC, MdtL, MexHI-OpmD, SugE, Tet(J), TolC/OpmH
Gene conferring resistance via absence	gidB
Protein altering cell wall charge conferring antibiotic resistance	GdpD, PgsA
Regulator modulating expression of antibiotic resistance genes	AcrAB-TolC, EmrAB-TolC, H-NS, OxyR

Genome Assembly

