



ONE DAY ONE GENOME



Plesiomonas sp.

Isolated from the gut of a
freshwater **pufferfish** the
microbe will help in aquaculture,
food safety, and the environment



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	8
GC Content	51.72
Contig L50	1
Genome length	3,787,933 bp
Contig N50	3,384,982

Table 2: Annotated Genome Features	
CDS	3,373
tRNA	121
Repeat Regions	100
rRNA	37

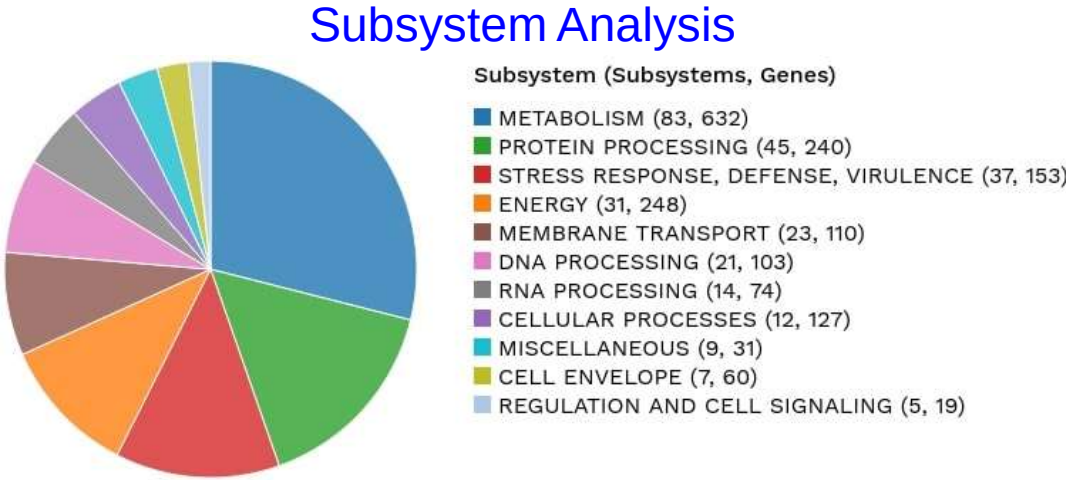


Table 3: Antimicrobial Resistance Genes	
AMR Mechanism	Genes
Antibiotic target in susceptible species	Alr, Ddl, dxr, EF-G, EF-Tu, folA, Dfr, folP, gyrA, gyrB, inhA, fabI, Iso-tRNA, kasA, MurA, rho, rpoB, rpoC, S10p, S12p
Antibiotic inactivation enzyme	CatB family
Efflux pump conferring antibiotic resistance	EmrAB-TolC, MacA, MacB, MdtL, Tet(35), 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	H-NS, OxyR

