



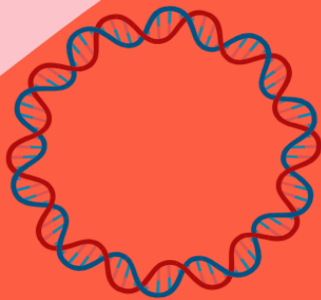
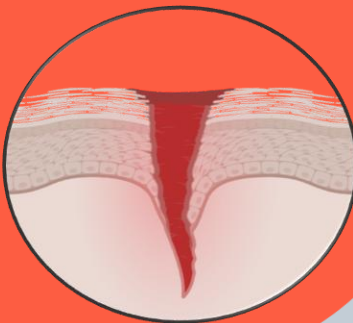
One Day One Genome

Aeromonas veronii (NIBMG_HMR_23)

Mostly found in water bodies and
opportunistic pathogen in
immunocompromised
humans

Genome Sequencing will
provide Targeted
Treatment
Opportunities

Isolated from
Diabetic Foot
Ulcers



Resistant to Antimicrobials
and produces biofilms



Aeromonas veronii (NIBMG_HMR_23)

Genome Accession Number: INS0005656

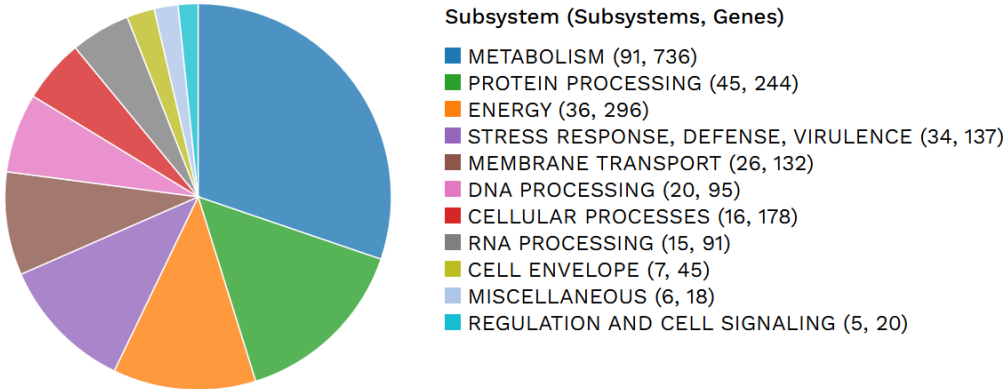
Quality of Genome Assembly and Annotation:
Results from indigenously developed **BHARAT** analysis pipeline:
(**B**acterial **H**ybrid genome **A**ssembly and **R**apid **A**nnotation **T**oolset)

Table 1: Assembly Details	
Contigs	44
GC Content	59.02
Contig L50	6
Genome length	4,342,418 bp
Contig N50	218,334

Table 2: Annotated Genome Features	
CDS	4,035
tRNA	99
rRNA	3
Repeat Regions	0

Table 3: Antimicrobial Resistance Genes	
AMR Mechanism	Genes
Antibiotic activation enzyme	KatG
Antibiotic inactivation enzyme	ChpA family
Antibiotic target in susceptible species	Alr, Ddl, dxr, EF-G, EF-Tu, folA, Dfr, folP, gyrA, gyrB, Iso-tRNA, kasA, MurA, rho, rpoB, rpoC, S10p, S12p
Efflux pump conferring antibiotic resistance	MacA, MacB, MdtL, TolC/OpmH
Protein altering cell wall charge conferring antibiotic resistance	GdpD, PgsA
Regulator modulating expression of antibiotic resistance genes	H-NS, OxyR

Subsystem Analysis



Genome Assembly

