



Government of India
Ministry of Science & Technology
Department of Biotechnology



ONE DAY ONE GENOME

Shewanella cutis sp. nov



Save the Earth!

Shewanella cutis sp. nov. (PS-2^T)

Genome Accession Number: JACSDI010000000

Quality of Genome Assembly and Annotation:

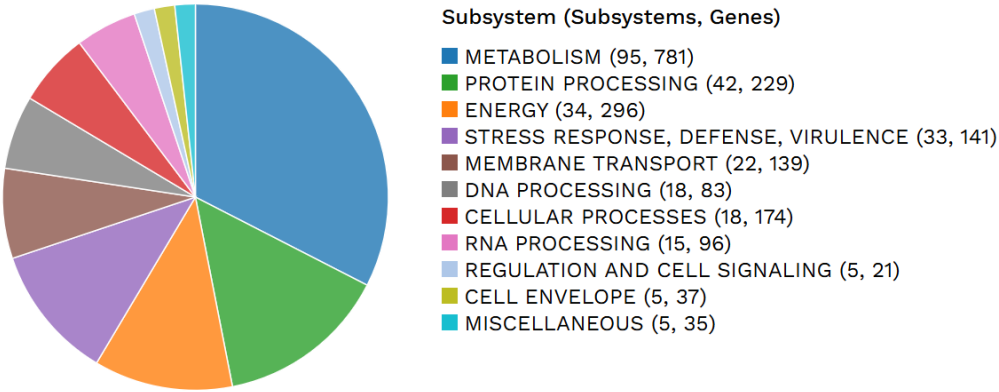
Results from indigenously developed **BHARAT** analysis pipeline: (**B**acterial **H**ybrid genome **A**ssembly and **R**apid **A**nnotation **T**oolset)

Table 1: Assembly Details	
Contigs	83
GC Content	46 %
Contig L50	7
Genome length	4,859,285 bp
Contig N50	175,293

Table 2: Annotated Genome Features	
CDS	4,531
tRNA	90
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, Iso-tRNA, kasA, MurA, rho, rpoB, rpoC, S10p, S12p
Efflux pump conferring antibiotic resistance	MacA, MacB, MdtL, MexEF-OprN, TolC/OpmH
Protein altering cell wall charge conferring antibiotic resistance	GdpD, PgsA
Antibiotic target replacement protein	fabV
Regulator modulating expression of antibiotic resistance genes	H-NS
Antibiotic inactivation enzyme	CatB family, OXA-48 family

Subsystem Analysis



Genome Assembly

