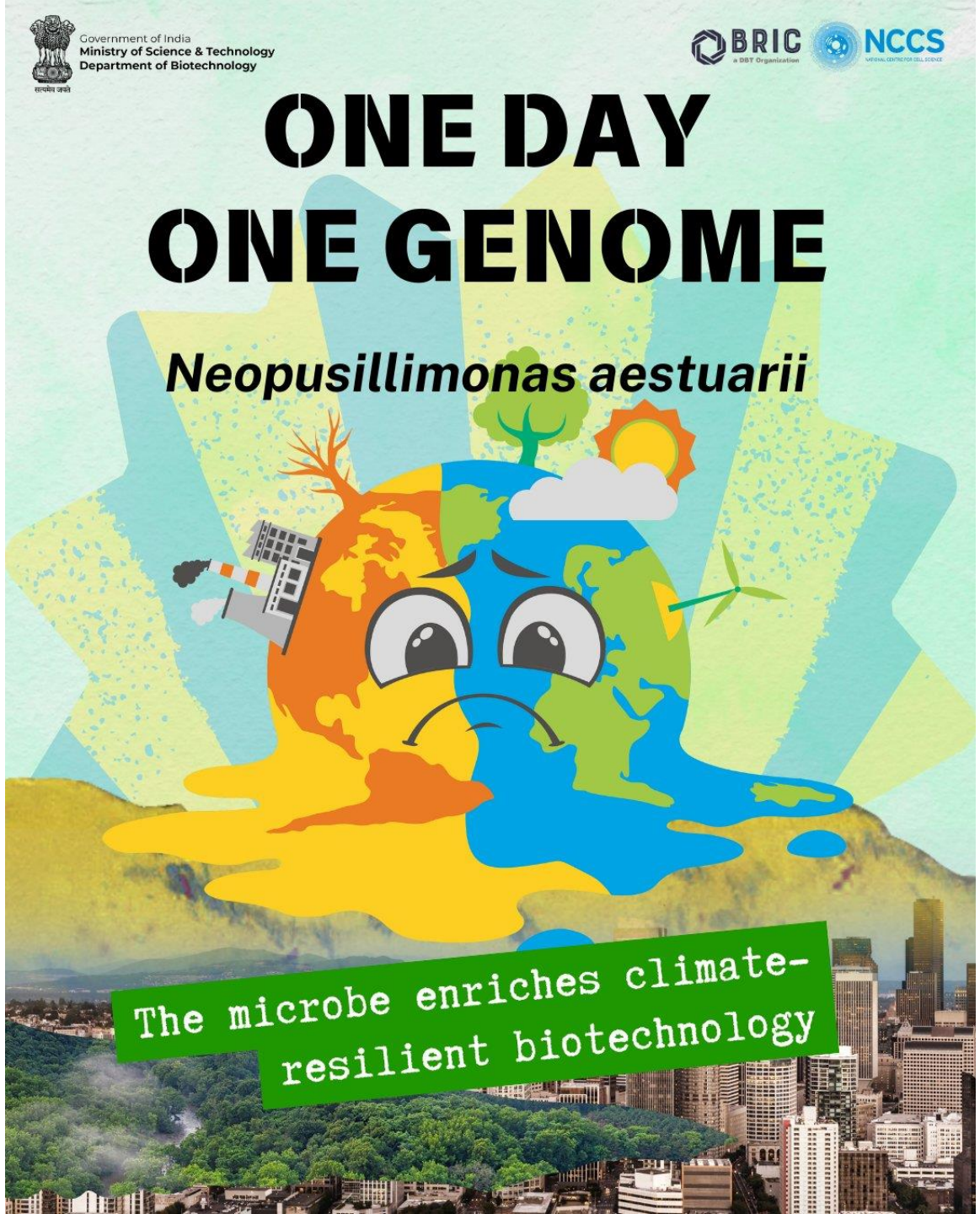
Government of India
Ministry of Science & Technology
Department of Biotechnology

BRIC a DBT Organization NCCS

ONE DAY ONE GENOME

Neopusillimonas aestuarii



The microbe enriches climate-resilient biotechnology

Neopusillimonas aestuarii **Genome Accession Number: CP049990.1**

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	1
GC Content	53.25
Contig L50	1
Genome length	3,191,899 bp
Contig N50	3,191,899

Table 2: Annotated Genome Features	
CDS	3,074
tRNA	44
Repeat Regions	17
rRNA	9

Subsystem Analysis

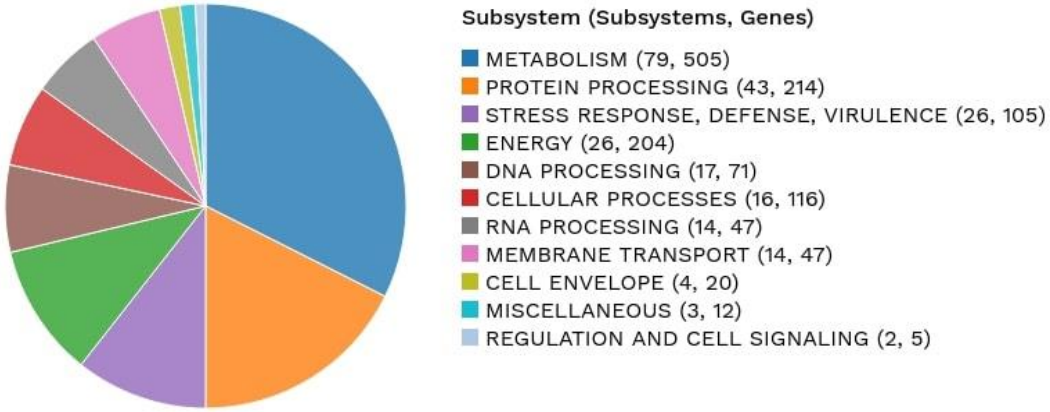


Table 3: Antimicrobial Resistance Genes	
AMR Mechanism	**Genes**
Antibiotic target in susceptible species	Alr, Ddl, dxr, EF-G, EF-Tu, folA, Dfr, folP, gyrA, gyrB, inhA, fabI, Iso-tRNA, kasA, MurA, rho, rpoB, rpoC, S10p, S12p
Efflux pump conferring antibiotic resistance	MdtABC-OMF, MdtABC-TolC
Gene conferring resistance via absence	gidB
Protein altering cell wall charge conferring antibiotic resistance	PgsA
Regulator modulating expression of antibiotic resistance genes	OxyR

Genome Assembly