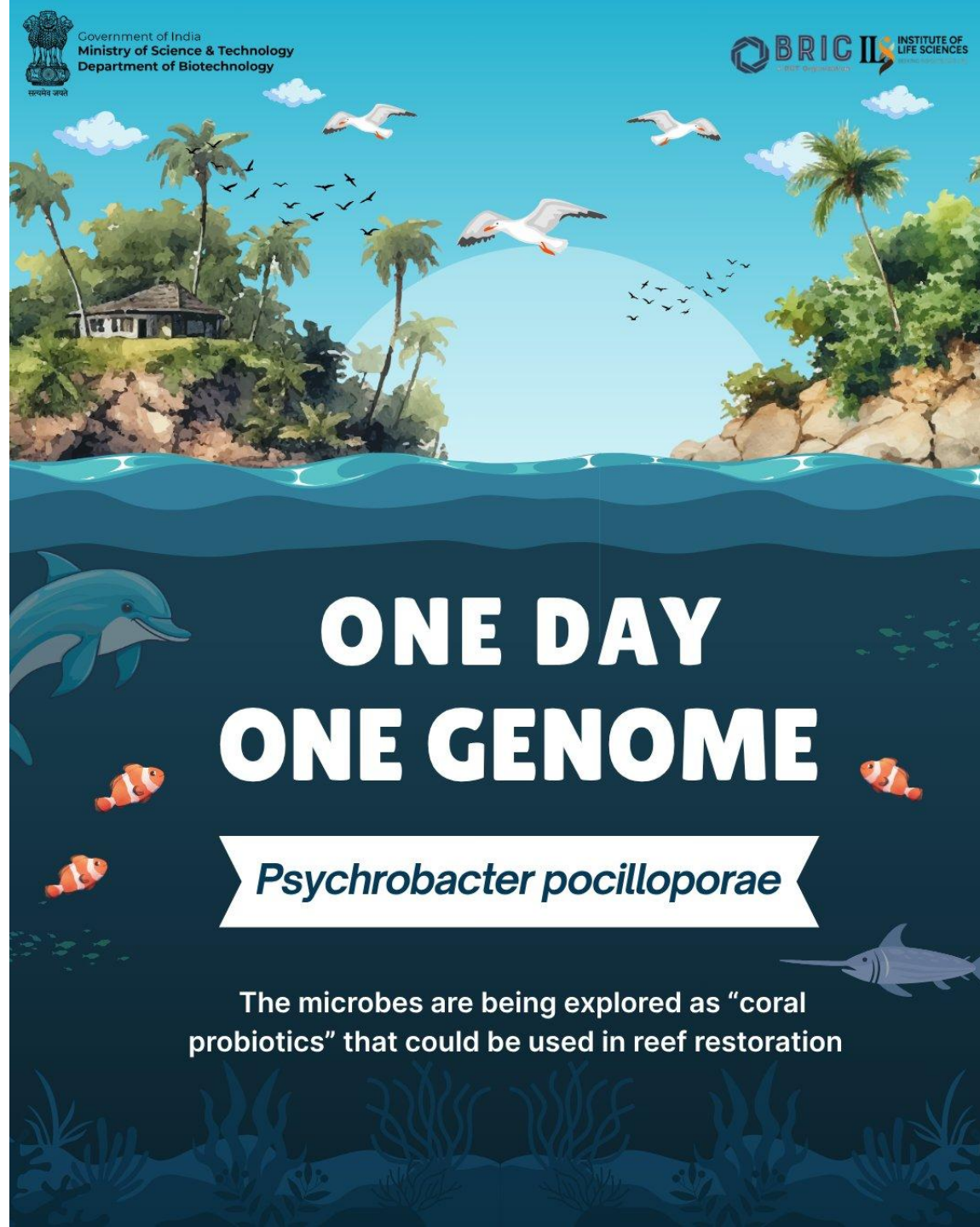




Government of India
Ministry of Science & Technology
Department of Biotechnology



ONE DAY ONE GENOME

Psychrobacter pocilloporae

The microbes are being explored as “coral probiotics” that could be used in reef restoration

Psychrobacter pocilloporae

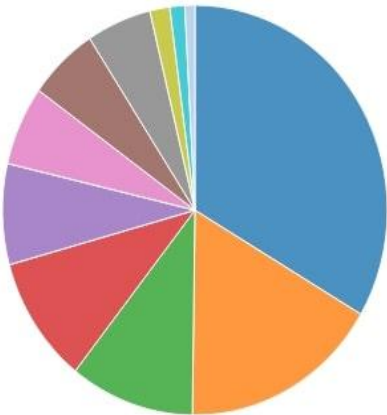
Genome Accession Number: PGFT00000000

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	2
GC Content	43.91
Contig L50	1
Genome length	3,123,703 bp
Contig N50	3,072,783

Table 2: Annotated Genome Features	
CDS	2,783
tRNA	53
Repeat Regions	301
rRNA	15



Subsystem Analysis

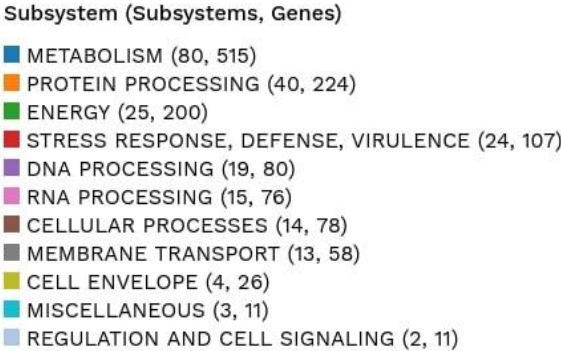


Table 3: Antimicrobial Resistance Genes	
AMR Mechanism	Genes
Antibiotic target in susceptible species	Alr, Ddl, dxr, EF-G, EF-Tu, folA, Dfr, folP, gyrA, gyrB, inhA, fabI, Iso-tRNA, kasA, MurA, rho, rpoB, rpoC, S10p, S12p
Efflux pump conferring antibiotic resistance	MacA, MacB
Gene conferring resistance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

Genome Assembly

