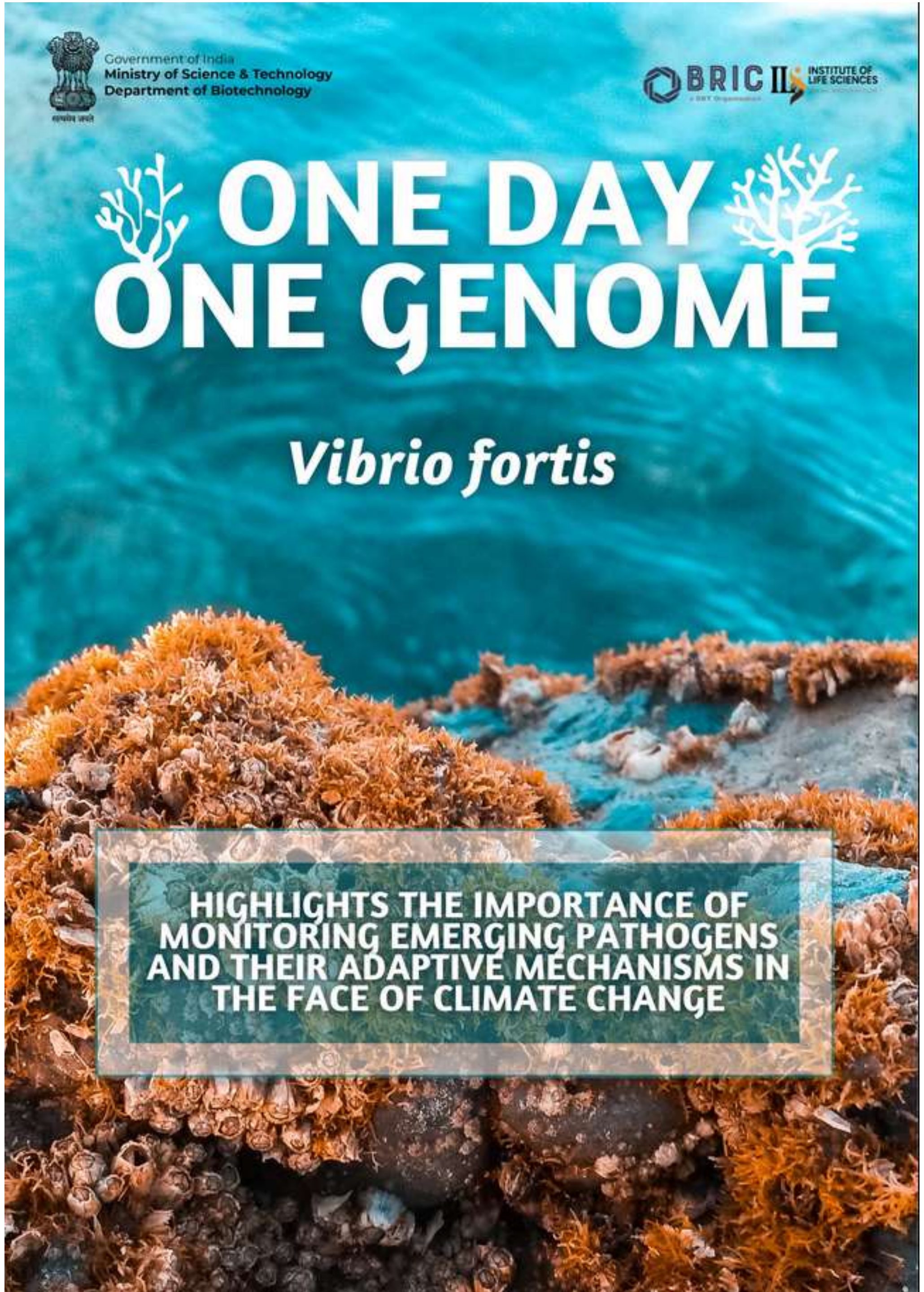

Government of India
Ministry of Science & Technology
Department of Biotechnology

BRIC
a DBT Organisation

INSTITUTE OF
LIFE SCIENCES

ONE DAY ONE GENOME

Vibrio fortis

HIGHLIGHTS THE IMPORTANCE OF MONITORING EMERGING PATHOGENS AND THEIR ADAPTIVE MECHANISMS IN THE FACE OF CLIMATE CHANGE

Vibrio fortis

Genome Accession Number: VWSE00000000

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	11
GC Content	45.06
Contig L50	2
Genome length	5,439,955 bp
Contig N50	1,195,239

Table 2: Annotated Genome Features	
CDS	5,076
tRNA	138
Repeat Regions	0
rRNA	44

Subsystem Analysis

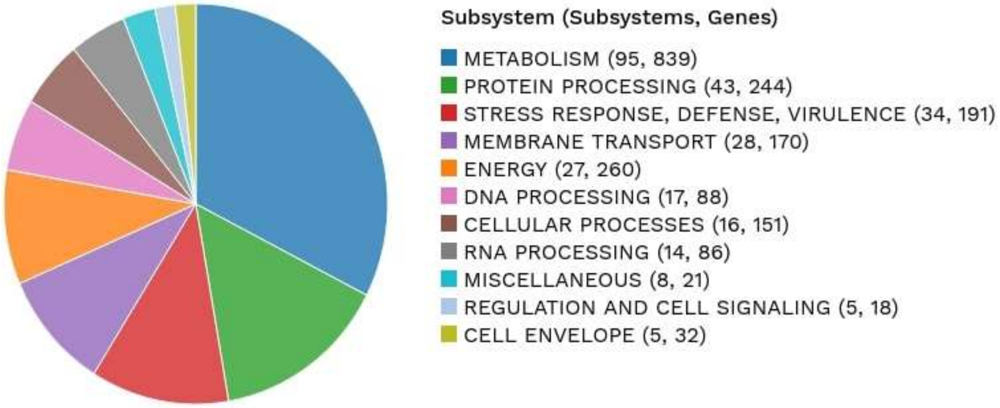

Table 3: Antimicrobial Resistance Genes	
AMR Mechanism	**Genes**
Antibiotic target in susceptible species	Alr, Ddl, dxr, EF-G, EF-Tu, folA, Dfr, folP, gyrA, gyrB, Iso-tRNA, kasA, MurA, rho, rpoB, rpoC, S10p, S12p
Efflux pump conferring antibiotic resistance	MdtL, MexEF-OprN, Tet(35), TolC/OpmH
Antibiotic inactivation enzyme	CatB family
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