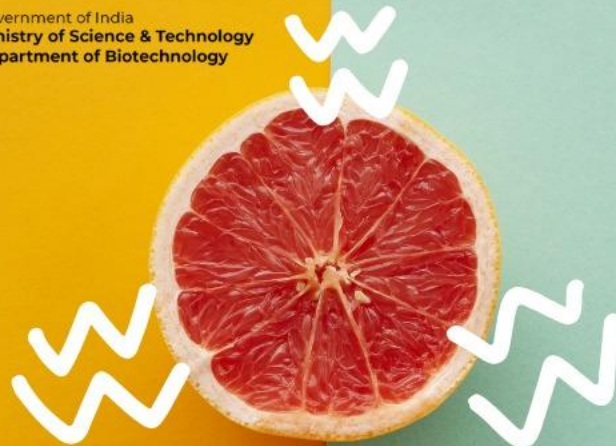




Government of India
Ministry of Science & Technology
Department of Biotechnology



ONE DAY ONE GENOME

Burkholderia contaminans

ISOLATED FROM CITRUS
PLANTS FROM ASSAM

IT CAN REDUCE DEPENDENCY ON CHEMICAL
PESTICIDES, AND PROMOTE ECO-FRIENDLY
AND SUSTAINABLE FARMING PRACTICES

Burkholderia contaminans (CH2)

Genome Accession Number: INS0016138

Quality of Genome Assembly and Annotation:

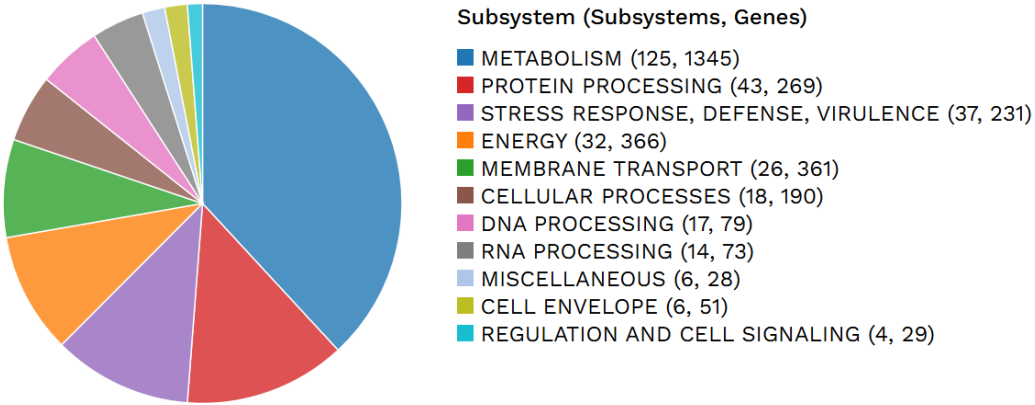
Results from indigenously developed **BHARAT** analysis pipeline: (**B**acterial **H**ybrid genome **A**ssembly and **R**apid **A**nnotation **T**oolset)

Table 1: Assembly Details	
Contigs	120
GC Content	66.17
Contig L50	14
Genome length	8,870,690 bp
Contig N50	191,474

Table 2: Annotated Genome Features	
CDS	8,796
tRNA	58
Repeat Regions	0
rRNA	3

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	EmrAB-OMF, EmrAB-TolC, MacA, MacB, MdtABC-OMF, MdtABC-TolC, MexXY-OMP
Regulator modulating expression of antibiotic resistance genes	H-NS, OxyR
Protein modulating permeability to antibiotic	OprB family, OprD family
Protein altering cell wall charge conferring antibiotic resistance	GdpD, PgsA

Subsystem Analysis



Genome Assembly

