

ONE DAY *Chryseobacterium indicum* ONE GENOME

The bacterial species has the ability to thrive
in unique aquatic environments



Chryseobacterium indicum sp. nov. (PS-8^T)

Genome Accession Number: JACSGT000000000

Quality of Genome Assembly and Annotation:

Results from indigenously developed **BHARAT** analysis pipeline: (**Bacterial Hybrid genome Assembly and Rapid Annotation Toolset**)

Table 1: Assembly Details

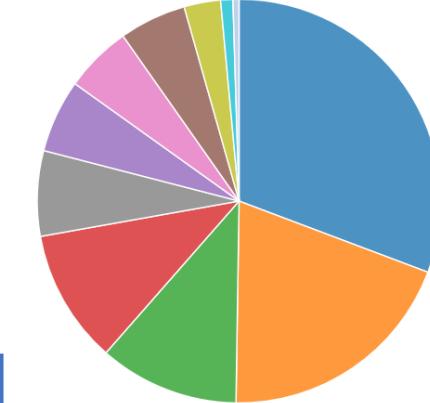
Contigs	5
GC Content	35.64
Contig L50	1
Genome length	4,837,804 bp
Contig N50	3,242,577

Table 2: Annotated Genome Features

CDS	4,594
tRNA	94
Repeat Regions	197
rRNA	10

Table 3: Antimicrobial Resistance Genes

AMR Mechanism	Genes
Antibiotic target in susceptible species	Ddl, EF-G, EF-Tu, folA, Dfr, folP, gyrA, gyrB, inhA, fabI, Iso-tRNA, kasA, MurA, rho, rpoB, rpoC, S10p, S12p
Antibiotic inactivation enzyme	CIA family
Regulator modulating expression of antibiotic resistance genes	OxyR
Protein altering cell wall charge conferring antibiotic resistance	GdpD



Subsystem Analysis

Subsystem (Subsystems, Genes)
METABOLISM (63, 414)
PROTEIN PROCESSING (40, 203)
ENERGY (23, 176)
STRESS RESPONSE, DEFENSE, VIRULENCE (22, 76)
DNA PROCESSING (14, 53)
RNA PROCESSING (12, 58)
CELLULAR PROCESSES (11, 54)
MEMBRANE TRANSPORT (11, 57)
CELL ENVELOPE (6, 33)
MISCELLANEOUS (2, 7)
REGULATION AND CELL SIGNALING (1, 4)

Genome Assembly

