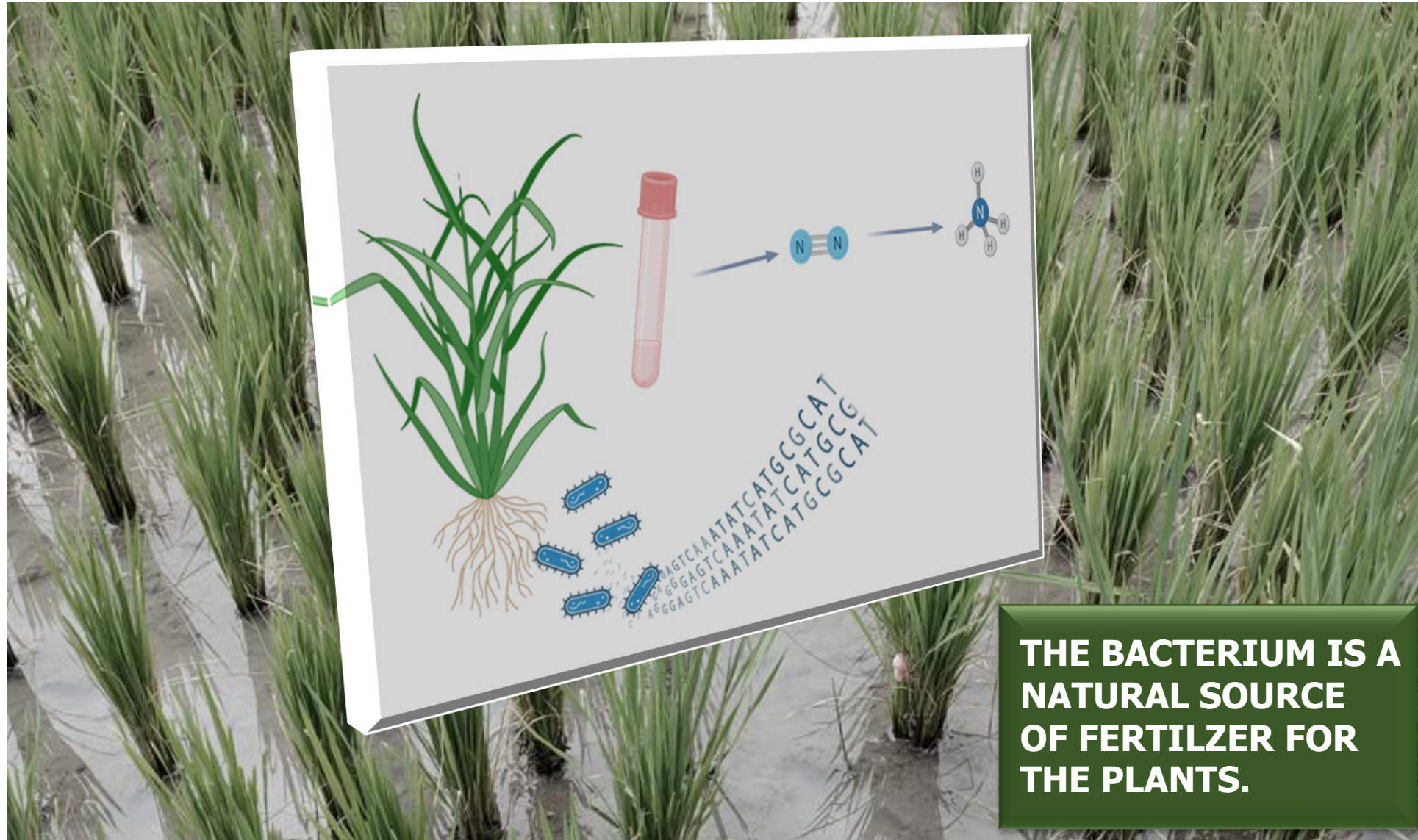




Genome of the Day: *Azospirillum brasilense*



Azospirillum brasilense

Genome Accession Number: INRP000249

Quality of Genome Assembly and Annotation:

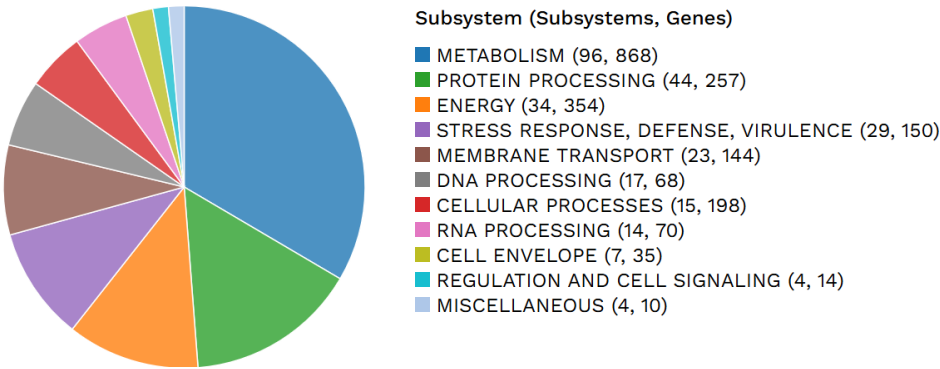
Results from indigenously developed **BHARAT** analysis pipeline:
(**B**acterial **H**ybrid genome **A**ssembly and **R**apid **A**nnotation **T**oolset)

Table 1: Assembly Details	
Contigs	198
GC Content	68.60
Contig L50	30
Genome length	7,622,378 bp
Contig N50	83,188

Table 2: Annotated Genome Features	
CDS	7,116
tRNA	15
rRNA	3
Repeat Regions	54

Table 3: Antimicrobial Resistance Genes	
AMR Mechanism	Genes
Antibiotic inactivation enzyme	CatB family
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, MdtABC-OMF, MdtABC-TolC, TriABC-OpmH
Gene conferring resistance via absence	gidB
Protein altering cell wall charge conferring antibiotic resistance	GdpD, PgsA
Regulator modulating expression of antibiotic resistance genes	OxyR

Subsystem Analysis



Genome Assembly

