One Day One Genome

Rhizobium indicum (MCC 3961) Genome accession number: GCA 005862305.2

Rhizobium isolated from pea root nodules at high altitudes (4,115 m) plays a vital role in nitrogen fixation, supporting high-altitude agriculture

Its Genome reveals a complete set of nitrogen fixation genes and metabolic pathways for plant growth promotion, emphasizing its potential in enhancing agricultural productivity in challenging environments

Empowering High-Altitude Agriculture: Nitrogen Fixation for Sustainable Farming in Extreme Environments!

useful for high altitude agriculture

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		Table 2. Annotated Genome Features		
Contigs	6	CDS	7,636	
GC Content	60.78	Repeat Regions	97	
Plasmids	0	tRNA	52	
Contig L50	1	rRNA	9	
Genome Length	7,533,049 bp	Partial CDS	0	
Contig N50	5,030,384	Miscellaneous RNA	0	
Chromosomes	0	Job ID	annotation_1993704	

Organism name	Accession number	Culture type	Isolated from	Pathogenicity	Genome Size	No. of Genes	Pathogenic genes	Importance
Dhi-ahi		Cuana na matina	Daat					Could be

Rhizobium indicum (MCC 3961)	GCA 0058623 05.2	Gram-negative, aerobic, rod-shaped and motile	Root nodules of pea	Non pathogenic	7,533,049 base pair 7,636	MacA, TriABC-OpmH, GdpD, PgsA	I
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