

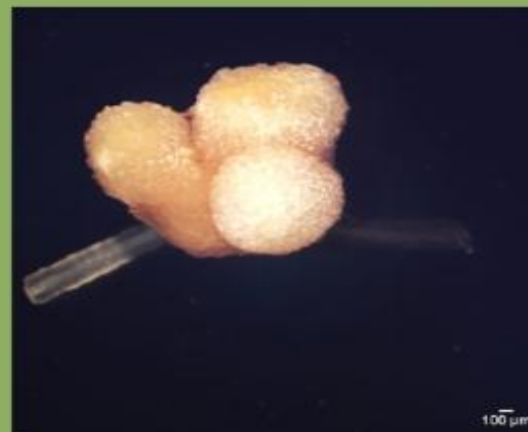
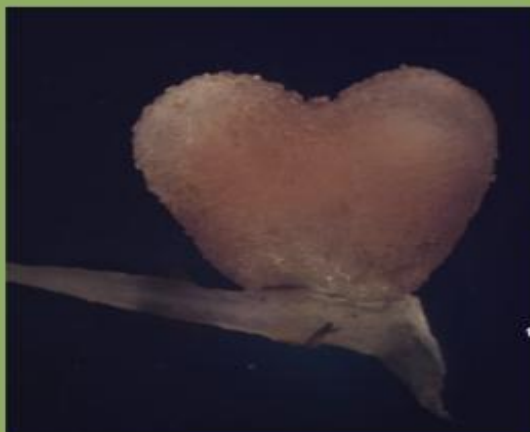
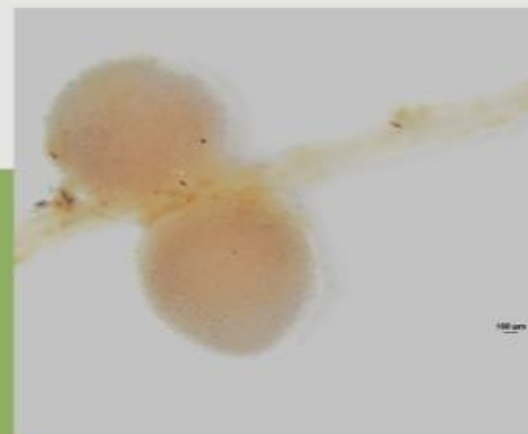


ONEDAYONEGENOME

Genome of the Day: *Mesorhizobium* sp. NI_DL7

The photographs are the Chickpea root nodules developed by *Mesorhizobium* sp. NI_DL7

**ISOLATED FROM
ROOT NODULES**



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	119
GC Content	61.24
Contig L50	14
Genome length	6,106,112 bp
Contig N50	155,698

Table 2: Annotated Genome Features	
CDS	6,345
tRNA	78
rRNA	5
Repeat Regions	0

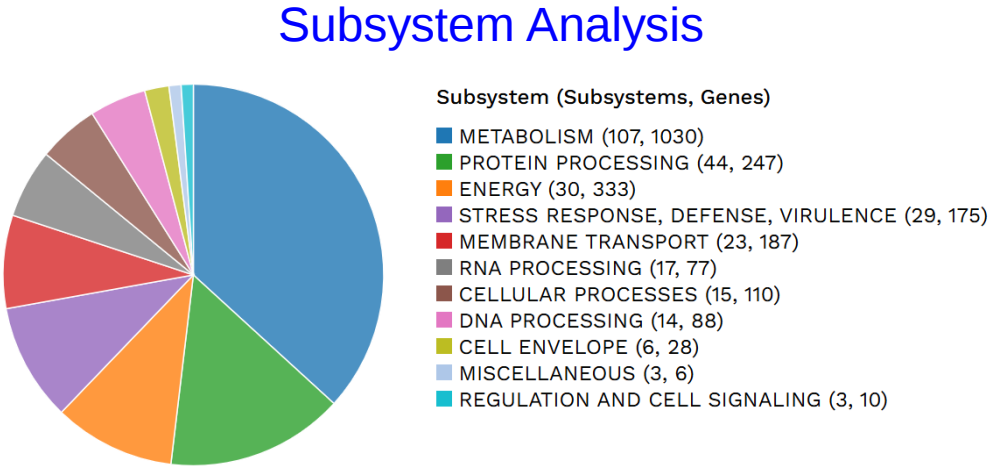


Table 3: Antimicrobial Resistance Genes	
AMR Mechanism	Genes
Antibiotic activation enzyme	KatG
Antibiotic target in susceptible species	Alr, Ddl, EF-G, EF-Tu, folA, Dfr, folP, gyrA, gyrB, inhA, fabI, Iso-tRNA, kasA, MurA, rho, rpoB, rpoC, S10p, S12p
Protein altering cell wall charge conferring antibiotic resistance	GdpD, PgsA
Regulator modulating expression of antibiotic resistance genes	OxyR

