

One Day One Genome

***Devosia ciceri* (NI_RJ2)** Genome accession number [SRR29289086](#)

Biologically converts atmospheric Nitrogen into fertilizer !!

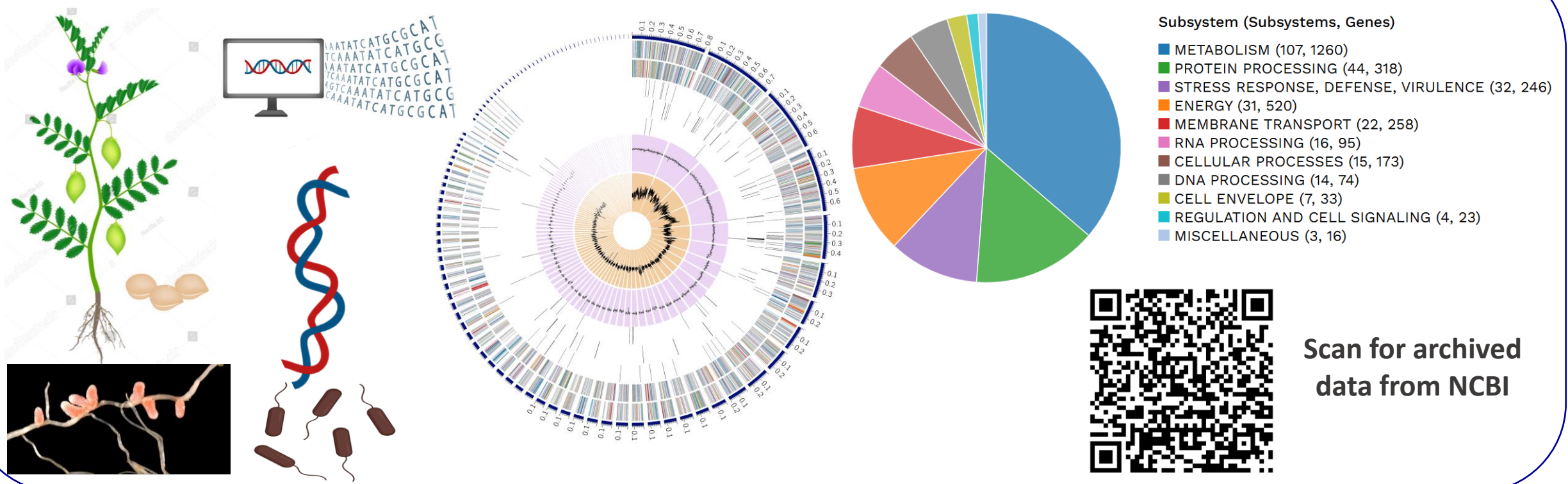
Devosia ciceri (NI_RJ2) symbiotically associates with leguminous plants and help in nitrogen fixation thus minimises the requirement of chemical fertilizer

Genome sequencing revealed complete set of nitrogen fixation and plant association genes

Genome analysis could lead to targeting genes for widen the host selection for symbiotic association and enhancement of nitrogen fixation efficiency

Organism name	Genome Accession number	Culture type	Isolated from	Pathogenicity	Genome Size	No. of Genes	Important genes	Importance
<i>Devosia ciceri</i> (NI_RJ2)	SRR29289086	Gram negative, rod shaped, motile	Root nodule of chickpea plant	Non pathogenic	8.76 million base pair	8,961	Nodulation related nod genes and nitrogen fixation related nif genes	Symbiotically associate with chickpea plant and fix nitrogen

A symbiotic Nitrogen fixing bacteria *Devosia ciceri* (NI_RJ2) – Important for organic farming



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

Devosia ciceri (NI_RJ2)
Draft genome accession number:
[SRR29289086](https://www.ncbi.nlm.nih.gov/sra/SRR29289086)

Table 1. Assembly Details		Table 2. Annotated Genome Features	
Contigs	99	CDS	8,961
GC Content	61.32	tRNA	79
Plasmids	0	rRNA	7
Contig L50	9	Partial CDS	0
Genome Length	8,761,659 bp	Miscellaneous RNA	0
Contig N50	244,228	Repeat Regions	0
Chromosomes	0		
Job ID	assembly_1313073	Job ID	annotation_1313073