



One Day One Genome

Niallia alba



Shows great promise for the development of digestive-health supplements and microbiome-targeted probiotics for a healthy gut

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	2
GC Content	35.60
Contig L50	1
Genome length	5,241,236 bp
Contig N50	5,233,187

Table 2: Annotated Genome Features	
CDS	5,284
tRNA	83
Repeat Regions	578
rRNA	33

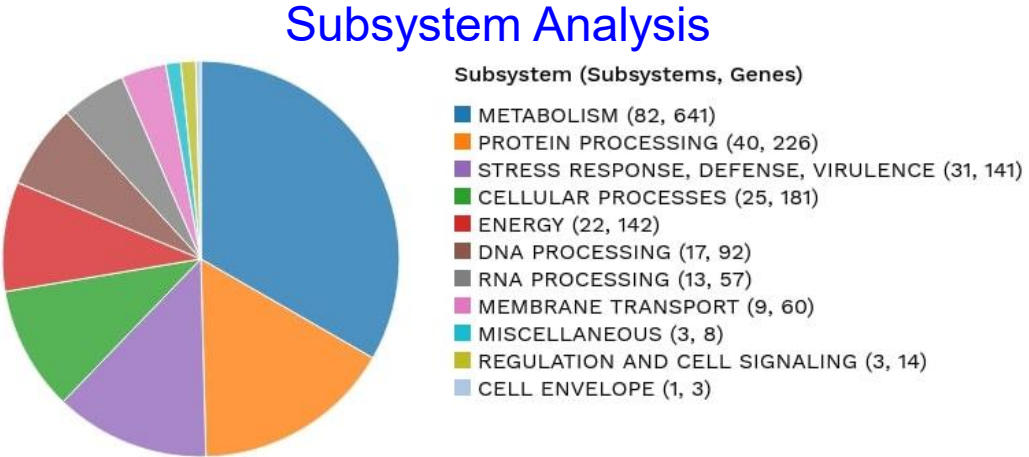


Table 3: Antimicrobial Resistance Genes	
AMR Mechanism	Genes
Antibiotic target in susceptible species	Alr, Ddl, dxr, EF-G, EF-Tu, folA, Dfr, folP, gyrA, gyrB, inhA, fabI, Iso-tRNA, kasA, MurA, rho, rpoB, rpoC, S10p, S12p
Antibiotic target replacement protein	fabL
Efflux pump conferring antibiotic resistance	ykkCD
Gene conferring resistance via absence	gidB
Protein altering cell wall charge conferring antibiotic resistance	GdpD, PgsA
Regulator modulating expression of antibiotic resistance genes	LiaR, LiaS, VanF/M-type

