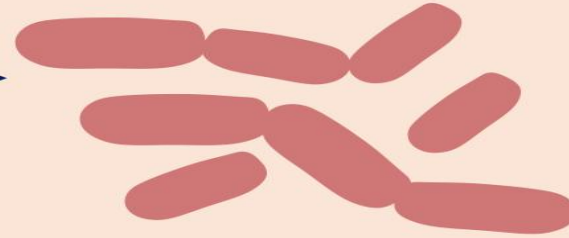


#ONEDAYONEGENOMEINITIATIVE

Limosilactobacillus fermentum



**Chhurpi cheese of Sikkim
Himalaya**



Isolation of *L. fermentum*

**Production of highly catalytic
 β -galactosidase enzyme**

FUTURE POTENTIAL APPLICATION



Lactose intolerance



**Lactose
hydrolysis**



**Lactose free
dairy products**

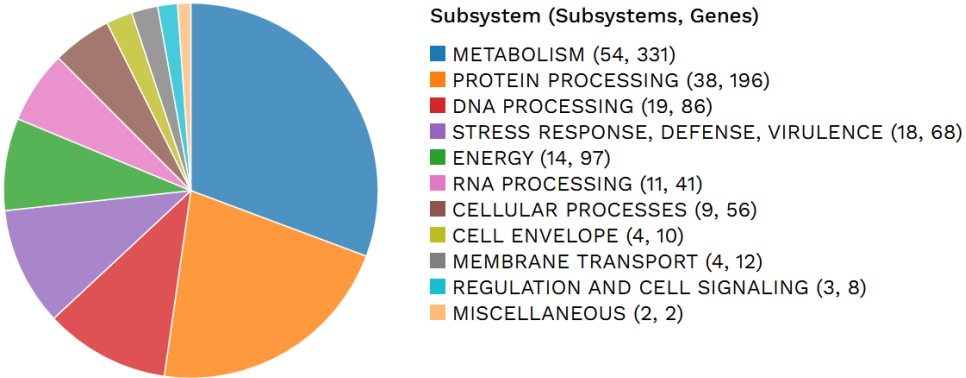
Quality of Genome Assembly and Annotation:
Results from indigenously developed **BHARAT** analysis pipeline:
(**B**acterial **H**ybrid genome **A**ssembly and **R**apid **A**nnotation **T**oolset)

Table 1: Assembly Details	
Contigs	208
GC Content	52.06
Contig L50	26
Genome length	1,834,986 bp
Contig N50	19,815

Table 2: Annotated Genome Features	
CDS	1,946
tRNA	49
rRNA	2
Repeat Regions	57

Table 3: Antimicrobial Resistance Genes	
AMR Mechanism	Genes
Antibiotic target modifying enzyme	RlmA(II)
Antibiotic target in susceptible species	Alr, Ddl, EF-G, EF-Tu, folA, Dfr, folP, gyrA, gyrB, inhA, fabI, Iso-tRNA, kasA, MurA, rpoB, rpoC, S10p, S12p
Gene conferring resistance via absence	gidB
Protein altering cell wall charge conferring antibiotic resistance	GdpD, MprF, PgsA

Subsystem Analysis



Genome Assembly

