

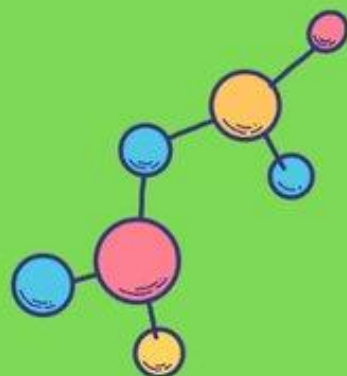


Government of India
Ministry of Science & Technology
Department of Biotechnology

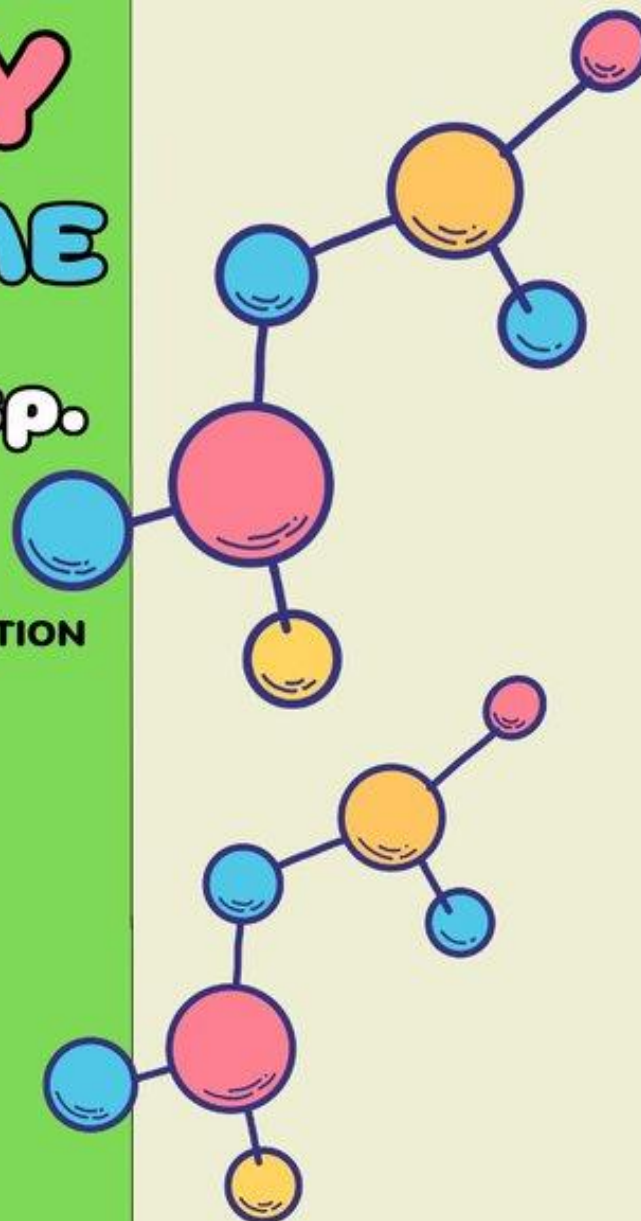
ONE DAY ONE GENOME

Lysinibacillus sp.

HIGHLIGHTS ITS IMPORTANCE IN
XENOBIOTIC COMPOUND DEGRADATION



BRIC II INSTITUTE OF
LIFE SCIENCES
a DIT Organisation



Lysinibacillus sp.

Genome Accession Number: CP058997

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	1
GC Content	37.55
Contig L50	1
Genome length	4,668,062 bp

Table 2: Annotated Genome Features	
CDS	4,750
tRNA	108
Repeat Regions	65
rRNA	34

Subsystem Analysis

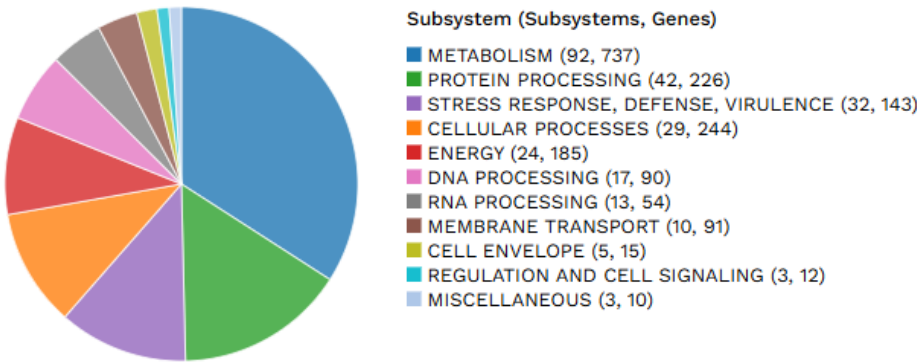


Table 3: Antimicrobial Resistance Genes

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
Efflux pump conferring antibiotic resistance	BceA, BceB, EbrA, EbrB, YkkCD
Protein altering cell wall charge conferring antibiotic resistance	GdpD, PgsA

Genome Assembly

