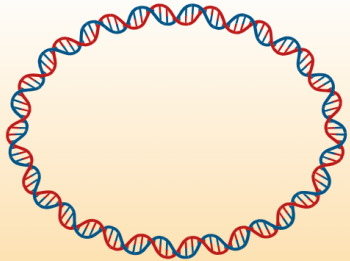


Genome Announcement: *Latilactobacillus sakei*

Accession#ERR15700373 (ENA)
#INRR022999 (IBDC)

1. Genome Sequencing



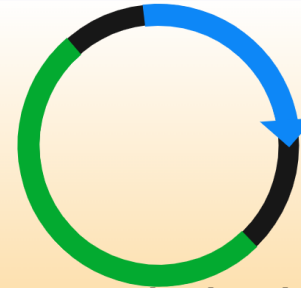
BRIC-THSTI
presenting the whole
genome sequence
of ***Latilactobacillus
sakei*** from the
wastewater
resources in India.

2. Analysis



***Lactobacillus
sakei*** in
environmental and
clinical settings may
contribute to genetic
exchange, microbial
competition, and
sugar metabolism in
nutrient-scarce
wastewater.

3. Insights



Genomic insights
reveal ***L. sakei***'s
metabolic flexibility
via stress resilience
through system, and
presence of plasmids
rep38_2 and
repA(LBPp1) allows
to adapt in
environmental
challenges.

4. Translation



It has potential for
food safety, industrial
applications,
antimicrobial
discovery, and
wastewater
surveillance, with a
plasmid from the
environmental isolate
marking adaptation
and gene transfer risk

***Latilactobacillus sakei*: This food-fermenting probiotic is found in wastewater**



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DEPARTMENT OF
BIOTECHNOLOGY

