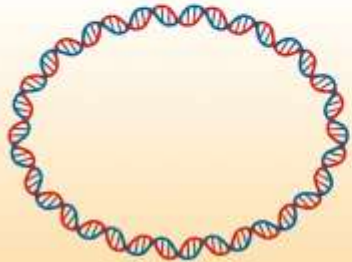


Genome Announcement: *Limosilactobacillus mucosae*

Accession#SRR28592990 (NCBI)
#INS0004616 (IBDC)

1. Genome Sequencing



BRIC-THSTI
presenting the whole
genome sequence
of
***Limosilactobacillus
mucosae*** from the
reproductive tract of
Indian women.

2. Analysis



Genomic analysis
reveals that
microbial
metabolism and
interspecies
interactions are key
determinants of
vaginal microbiome
health in
reproductive-age
women

3. Insights



L. mucosae
supports vaginal
health by enhancing
metabolic resilience
under variable
oxygen and nutrient
conditions via Fe-S
cluster biogenesis,
Neopullulanase
activity, and MntH
transport.

4. Translation



These findings lay
the foundation for
developing probiotics
and identifying
genetic markers as
indicators of a
healthy or perturbed
vaginal microbiome.

***Limosilactobacillus mucosae*: The quiet workhorse behind a thriving vaginal microbiome**

Whole Genome sequence of *Limosilactobacillus mucosae*

