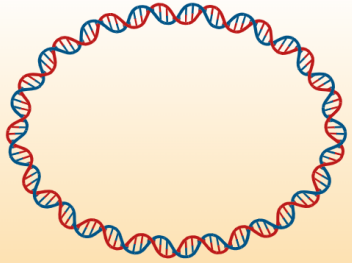


Genome Announcement: *Lactobacillus johnsonii*

Accession#SRR28592955 (NCBI)
#INS0004647 (IBDC)

1. Genome Sequencing



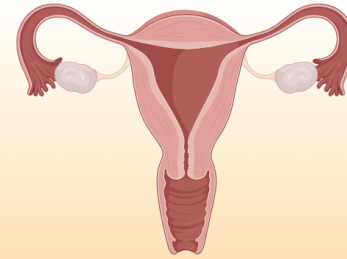
BRIC-THSTI presents the whole genome sequence of ***Lactobacillus johnsonii*** found in the reproductive tract of Indian women.

2. Analysis



Genomic analysis reveals ***L. johnsonii***'s potential for antimicrobial activity, demonstrated by its production of small peptides and mechanisms for acquiring essential nutrients.

3. Insights



Genomic data highlight ***L. johnsonii***'s metabolic adaptability (**Neopullulanase**), stress tolerance (**SufD**), and reproductive tract protection through **RiPP-like peptides**.

4. Translation



These findings support the development of live biotherapeutics that help protect women from bacterial vaginosis and reduce the risk of preterm birth, promoting healthier pregnancy outcomes

Lactobacillus johnsonii: Metabolically flexible and resilient'- champions reproductive tract health with its unique RiPP-like defense

Whole Genome sequence of *Lactobacillus johnsonii*

