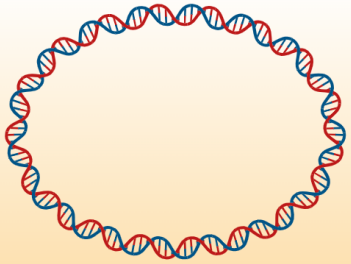
Genome Announcement: *Ligilactobacillus murinus*

Accession#SAMEA120513478 (NCBI)
#INS0022912 (IBDC)

1. Genome Sequencing

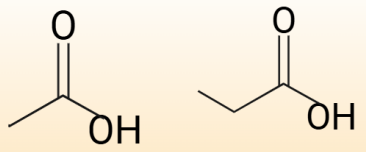


BRIC-THSTI presenting the whole genome sequence of ***Ligilactobacillus murinus*** from the healthy murine stool sample.

2. Analysis

The genome of ***Ligilactobacillus murinus*** identifies its probiotic potential with immunomodulatory, metabolic, and CRISPR-based defense capabilities.

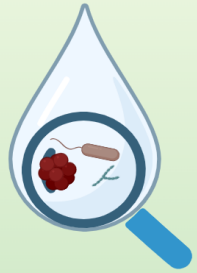
3. Insights



Short Chain Fatty Acids

Genomic insights include adhesion, stress tolerance, antimicrobial enzymes, anti-inflammatory activity, carbohydrate metabolism, SCFA synthesis, and CRISPR immunity.

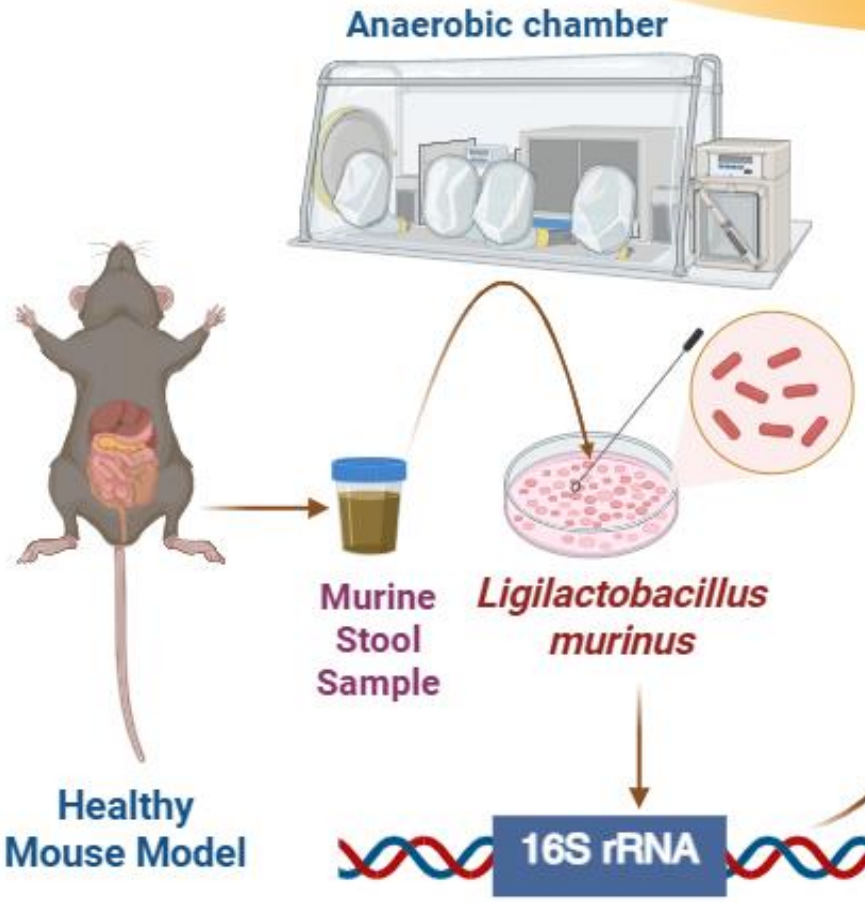
4. Translation



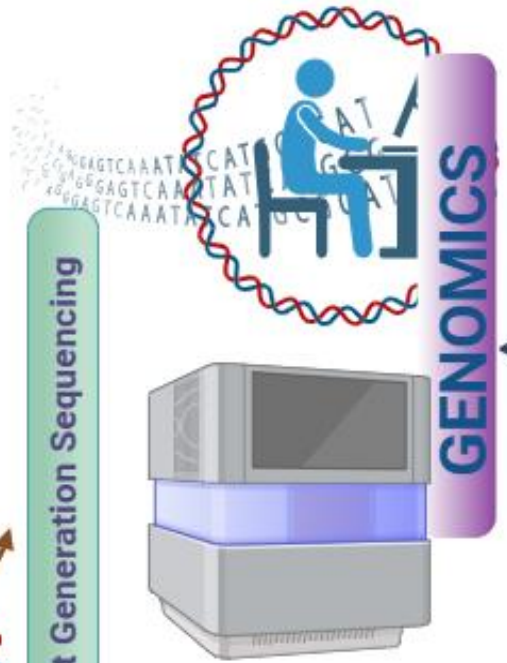
The genomic profile suggests roles in probiotic and gut barrier health, therapeutic applications, and antimicrobial and food safety applications.

Ligilactobacillus murinus: A small host game player to heal the human.

Genomics of *Ligilactobacillus murinus*



Next Generation Sequencing



GENOMICS

Genome characteristics

- Genome size: 2.2Mb
- GC percent: 39.8%
- CDS: 2102
- Stable RNAs: 70

Therapeutic functions

- Host adaptation & Immunomodulation
- Antimicrobial activity
- Probiotic properties