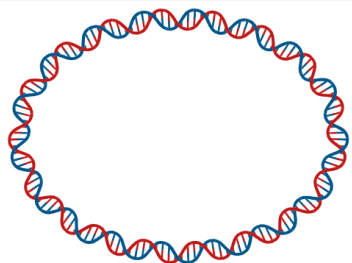


Genome Announcement: *Bifidobacterium adolescentis*

Accession#SAMEA120513522(NCBI)
#INS0022909 (IBDC)

1. Genome Sequencing



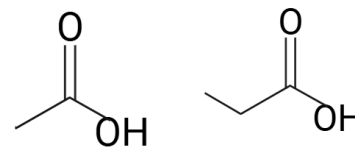
BRIC-THSTI
presenting the
whole genome
sequence of
***Bifidobacterium
adolescentis***
isolated from the
stool sample of an
Indian adult.

2. Analysis



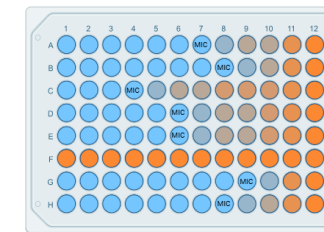
Genomic analysis
identifies a gut
commensal
specialized in
digesting resistant
starch and supporting
gut health via stress,
adherence, GABA,
and antibiotic
resistance genes.

3. Insights



Short Chain Fatty Acids
The genomic feature
insights its capacity
for carbohydrate
metabolism through
CAZymes that
support both
microbial and host
metabolism, while
harboring intrinsic
ARGs (e.g., *ileS*,
rpoB) for self-
protection.

4. Translation



Elucidating these
genomic insights
enables innovative
strategies for next-
generation probiotics
and precision
therapeutics targeting
gastrointestinal and
metabolic diseases.

***Bifidobacterium adolescentis*: A balacing agent for the happier gut.**

Genomics of *Bifidobacterium adolescentis*

