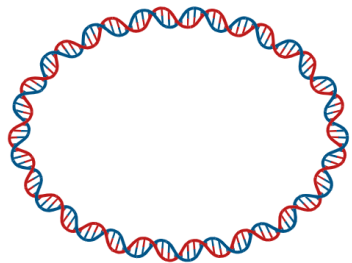


Genome Announcement: *Phocaeicola vulgatus*

Accession#ERS27171163 (ENA)

#INS0022818 (IBDC)

1. Genome Sequencing



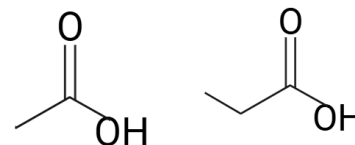
BRIC-THSTI
presenting the whole
genome sequence of
***Phocaeicola
vulgatus*** isolated
from the gut of a
healthy Indian adult.

2. Analysis



Genomic analysis
identifies *Phocaeicola
vulgatus* as a SCFA-
producing,
metabolically flexible
gut anaerobe with
both commensal and
opportunistic
pathogenic potential.

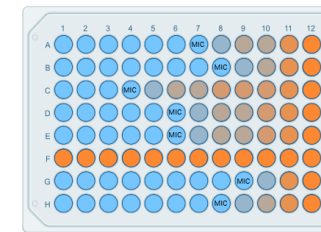
3. Insights



Short Chain Fatty Acids

Genomic insights
depicts pyruvate
metabolism via the
PFOR II pathway,
sustains energy
through the **RNF
complex** and **NADH
dehydrogenase**, and
supports **SCFA** and
amino acid
metabolism

4. Translation



***Phocaeicola
vulgatus*** Could be a
key target for
interventions in
metabolic and
inflammatory
diseases due to its
therapeutic potential
and metabolic
adaptability.

***Phocaeicola vulgatus*: Our gut's adaptable engineer, building health from fiber
while sometimes causing trouble!**



जैवप्रौद्योगिकी विभाग
DEPARTMENT OF
BIOTECHNOLOGY

