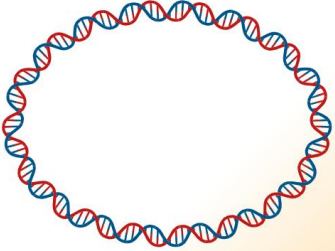


Genome Announcement: *Pediococcus pentosaceus*

Accession #SAMEA120513493 (NCBI)
#INS0022926 (IBDC)

1. Genome Sequencing



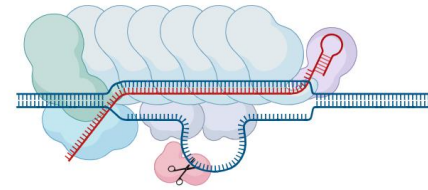
BRIC-THSTI
presenting the whole
genome sequence
of
***Pediococcus
pentosaceus***
isolated from the
fermented bamboo
shoot preparation
(MESU).

2. Analysis



Genomic analysis of
***Pediococcus
pentosaceus*** reveals
CRISPR-Cas
system, bacteriocin
genes, vancomycin
resistance, and
biosynthetic
pathways,
highlighting benefits
and safety concerns.

3. Insights



Genomic analysis of
*Pediococcus
pentosaceus* reveals
a Type II-A CRISPR-
Cas system (csn2,
cas2, cas1, cas9),
RiPP-like
antimicrobial
biosynthetic potential
(T3PKS), and
intrinsic vanT-
mediated vancomycin

4. Translation



Genomic analysis of
*Pediococcus
pentosaceus* points
to significant
translational
potential in several
key areas, from food
science and
preservation to
biotherapeutics and
drug discovery.

***Pediococcus pentosaceus*: Drawing on its dual nature—beneficial for food and armed with advanced genetic tools**

Genomics of *Pediococcus pentosaceus*

