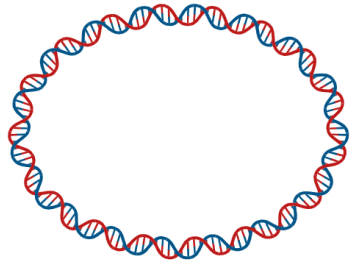


1. Genome Sequencing



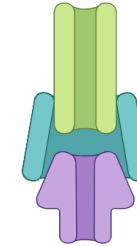
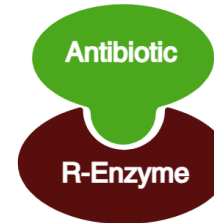
BRIC-THSTI
presenting the
complete genome
sequence of
Proteus penneri
isolated from Indian
wastewater from
the urban region.

2. Analysis



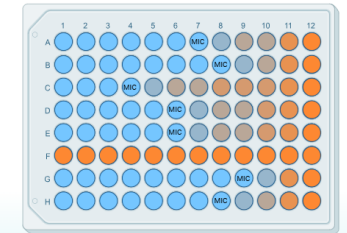
This genomic
analysis provides
valuable insights into
the organism's
environmental
adaptability, antibiotic
resistance, virulence
factors, and
metabolic capabilities.

3. Insights



Proteus penneri
carries multiple
resistance genes:
***ant(3^{II})-Ila*, *aph(3)*,
InuF, *dfr*, and *sul***
conferring resistance
to aminoglycosides,
lincosamides, and
trimethoprim-
sulfonamides.

4. Translation



Resistance gene data
bridges genomics
and clinical practice
by enabling targeted
therapy, infection
control, and rapid
diagnostics for
multidrug-resistant
strains.

***Proteus penneri*: A stealthy survivor, armed with resistance and ready to thrive where antibiotics fail.**

