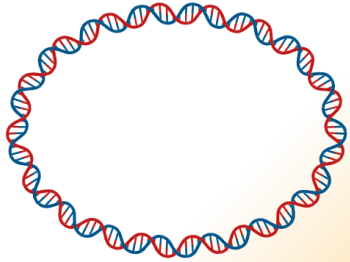


Genome Announcement: *Pseudomonas spp.*

Accession#SAMEA116290597 (NCBI)

#INS0005133 (IBDC)

1. Genome Sequencing



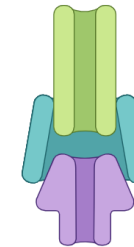
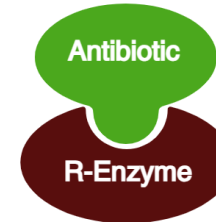
BRIC-THSTI
presenting the whole
genome sequence
of *Pseudomonas*
spp. isolated from
the Indian
wastewater source.

2. Analysis



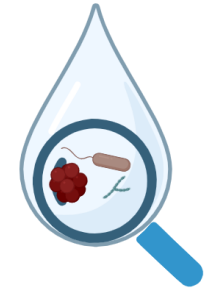
The genomic analysis
offers a roadmap to
reveal a diverse
resistance gene
profile indicative of
multidrug resistance
to aminoglycosides, β -
lactams, macrolides,
tetracyclines, and
sulfonamides.

3. Insights



It carries resistance
genes against
aminoglycosides
(*aac(6')*, *aph(3'')*-*lb*,
aph(6)-*ld*), β -lactams
(*blaCARB-3*),
macrolides (*mphE*,
msrE), tetracyclines
(*tet(G)*) indicating a
broad-spectrum
multidrug-resistant
profile.

4. Translation



Pseudomonas spp.
in sewage water
underscores its
potential for
bioremediation and
wastewater
treatment, while
also signaling
emerging antibiotic
resistance.

***Pseudomonas spp.*: Nature's cleanup crew with a rebellious streak of antibiotic
resistance**

