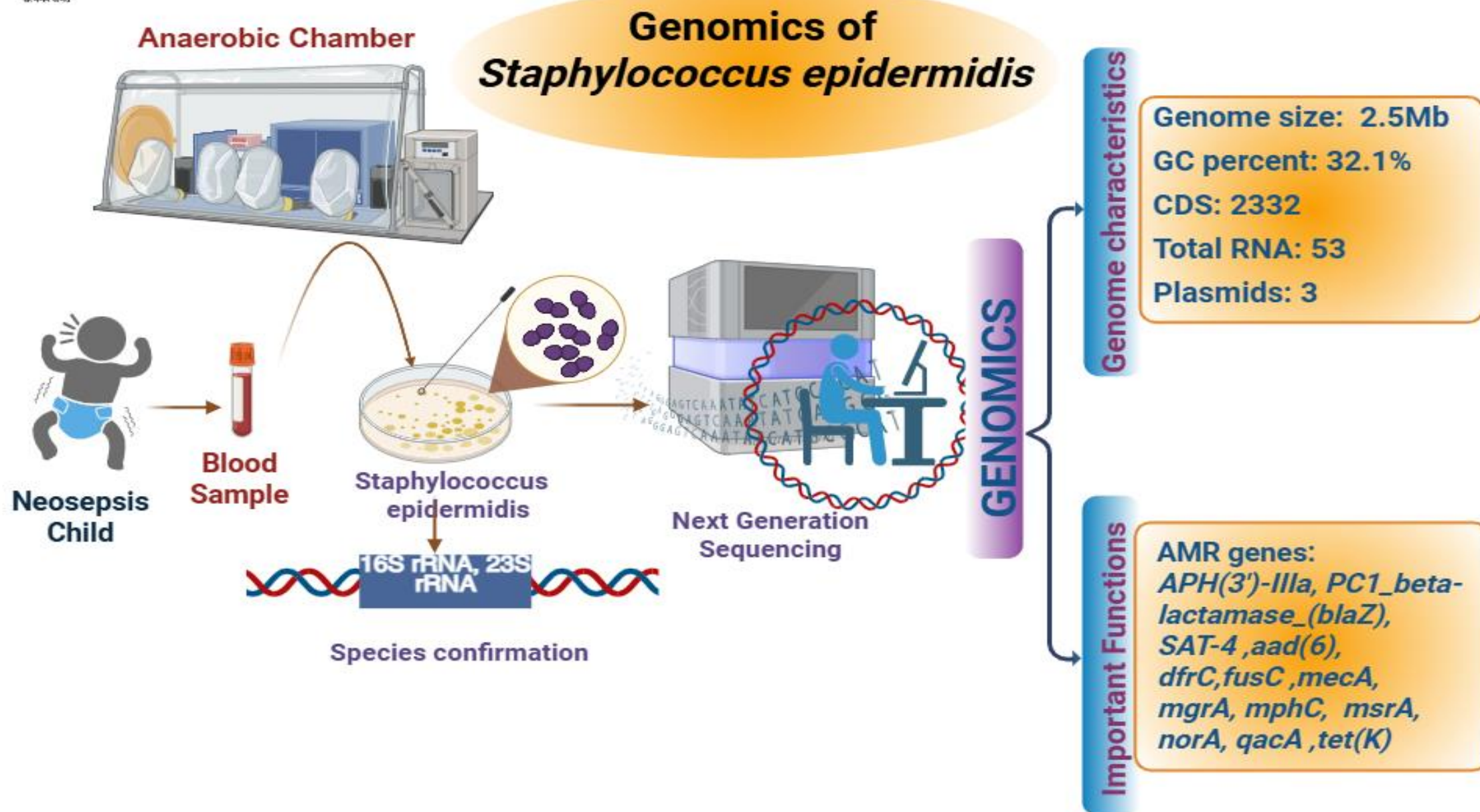




जैवप्रौद्योगिकी विभाग
DEPARTMENT OF
BIOTECHNOLOGY

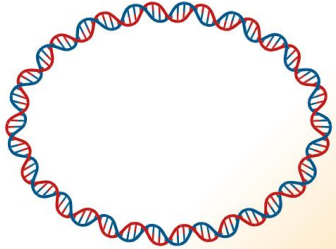


Genome Announcement: *Staphylococcus epidermidis*

Accession #SAMEA120513480 (NCBI)

#INS0022914 (IBDC)

1. Genome Sequencing



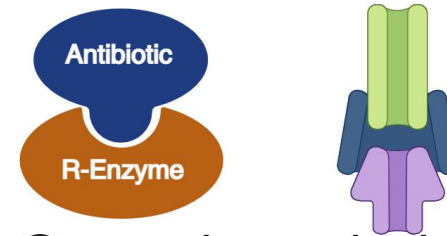
BRIC-THSTI
presenting the whole
genome sequence
of ***Staphylococcus
epidermidis***
isolated from the
neonatal sepsis
blood sample.

2. Analysis



Genomic analysis
identifies a highly
adaptable, multidrug-
resistant strain with
mobile genetic
elements,
functioning as an
opportunistic
pathogen capable of
surviving in harsh
environments.

3. Insights



Genomic analysis
reveals resistance
genes for β -lactams
(***mecA***, ***blaZ***),
aminoglycosides
(***APH(3')-IIIa***,
aad(6)), macrolides,
tetracycline,
trimethoprim, fusidic
acid, and ***qacA*** efflux
pump.

4. Translation



Translational aspects
analysis focuses on
applying these
scientific findings to
improve clinical
practice, infection
control, and
therapeutic
development.

***Staphylococcus epidermidis*: The biofilm mastermind is the worst nightmare to cause clinical chaos.**