One Day One Genome

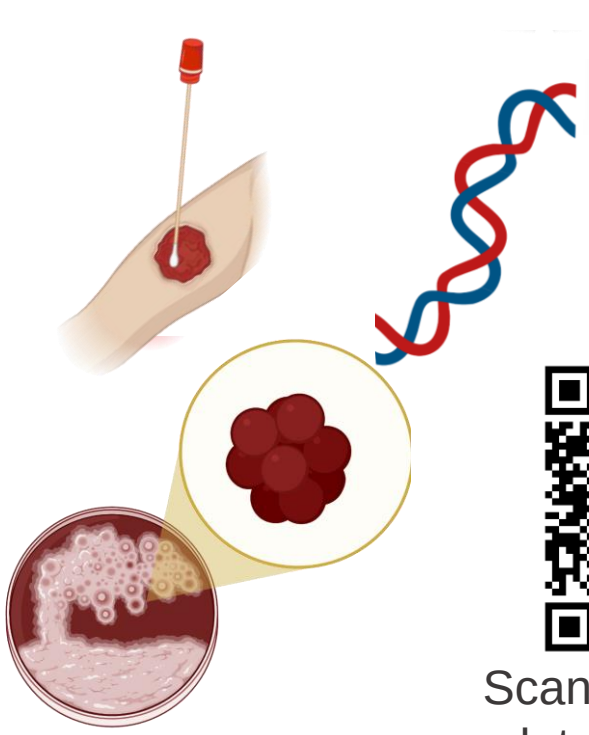
Enterococcus faecalis (OG-20) (accession number: INS0005654)

- BRIC-NIBMG sequenced *Enterococcus faecalis* (OG-20) genome, a resilient bacterium, to combat its antibiotic resistance and develop effective treatments for wound infections
- This discovery will aid in understanding its stress-evading mechanisms and develop targeted therapies

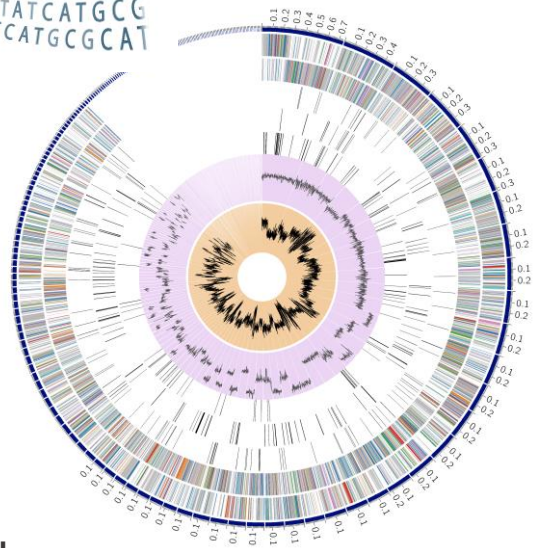
Fighting Infections with Strong Gut Feelings!

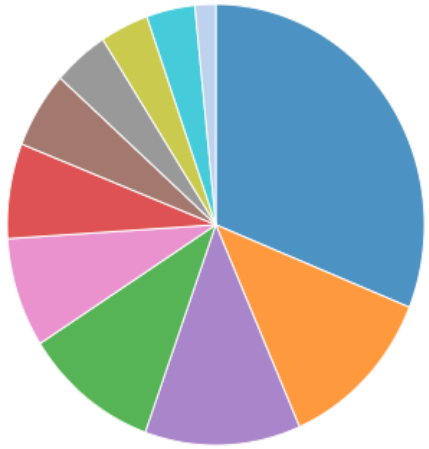
Accession number	Organism name	Culture type	Pathogenicity	Genome Size	No. of Genes	Pathogenic genes	Importance
INS0005654	*Enterococcus faecalis* (OG-20)	Anaerobic, Gram +ve, Coagulase negative	Opportunistic pathogen	2.6 million bp	2,579	Resistance and virulence genes were detected, including those for tetracycline, aminoglycosides, beta-lactams, chloramphenicol and sulfonamides	Genome of E. faecalis is crucial for understanding its antibiotic resistance mechanisms and pathogenic potential

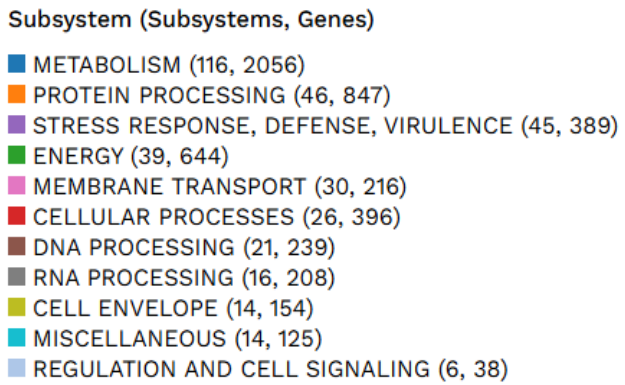
Enterococcus faecalis (OG-20) (Genome accession: INS0005654) - An antibiotic-resistant, opportunistic pathogen.



Scan for archived data from NCBI







Genome sequence analysis

Quality of Genome Assembly and Annotation:

Results from indigenously developed **BHARAT** analysis pipeline:
(**B**acterial **H**ybrid genome **A**ssembly and **R**apid **A**nnotation **T**oolset)

Enterococcus faecalis **(OG-20)**
Genome accession number:
INS0005654

Table 1. Assembly Details	
Contigs	219
GC Content	40.90
Plasmids	0
Contig L50	18
Genome Length	2,648,649 bp
Contig N50	195,930

Table 2. Annotated Genome Features	
CDS	2,579
tRNA	243
Repeat Regions	16
rRNA	13
Partial CDS	0