



Government of India
Ministry of Science & Technology
Department of Biotechnology



— ONE DAY — ONE GENOME

Neisseria brasiliensis



Its notable feature is its potential to
form biofilms over chronic wounds

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)

Table 1: Assembly Details	
Contigs	118
GC Content	49.22
Contig L50	14
Genome length	2,587,839 bp
Contig N50	55,562

Table 2: Annotated Genome Features	
CDS	2,765
tRNA	56
Repeat Regions	32
rRNA	3

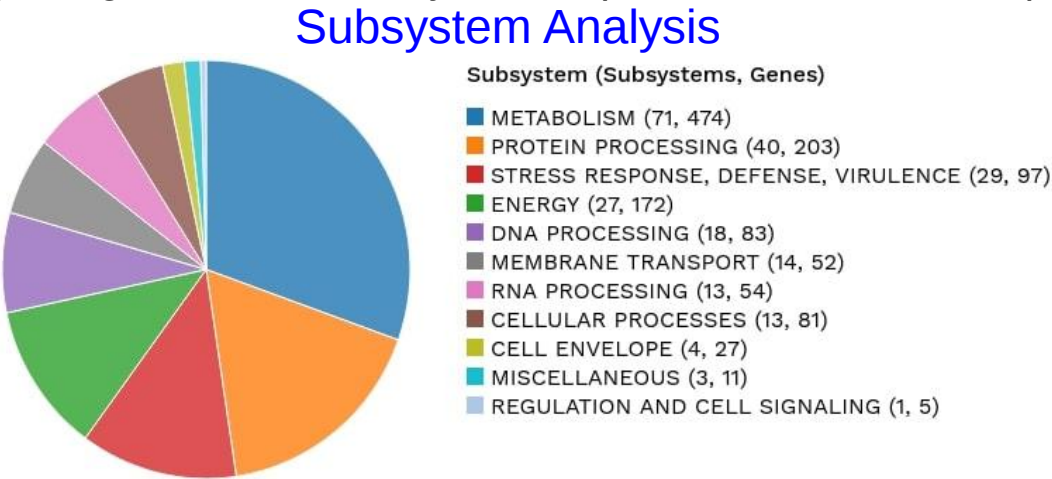


Table 3: Antimicrobial Resistance Genes	
AMR Mechanism	Genes
Antibiotic inactivating enzyme	AAC(3)-II,III,IV,VI,VIII,IX,X, ANT(6)-I, APH(3')-III/APH(3')-IV/APH(3')-VI/APH(3')-VII, APH(6)-Ic/APH(6)-Id, CARB/RTG family, Mph(E)/Mph(G) family
Antibiotic target in susceptible species	Alr, Ddl, dxr, EF-G, EF-Tu, folA, Dfr, folP, gyrA, gyrB, inhA, fabI, Iso-tRNA, kasA, MurA, rho, rpoB, rpoC, S10p, S12p
Antibiotic target protection protein	Msr(E)
Gene conferring resistance via absence	gidB
Protein altering cell wall charge conferring antibiotic resistance	PgsA

