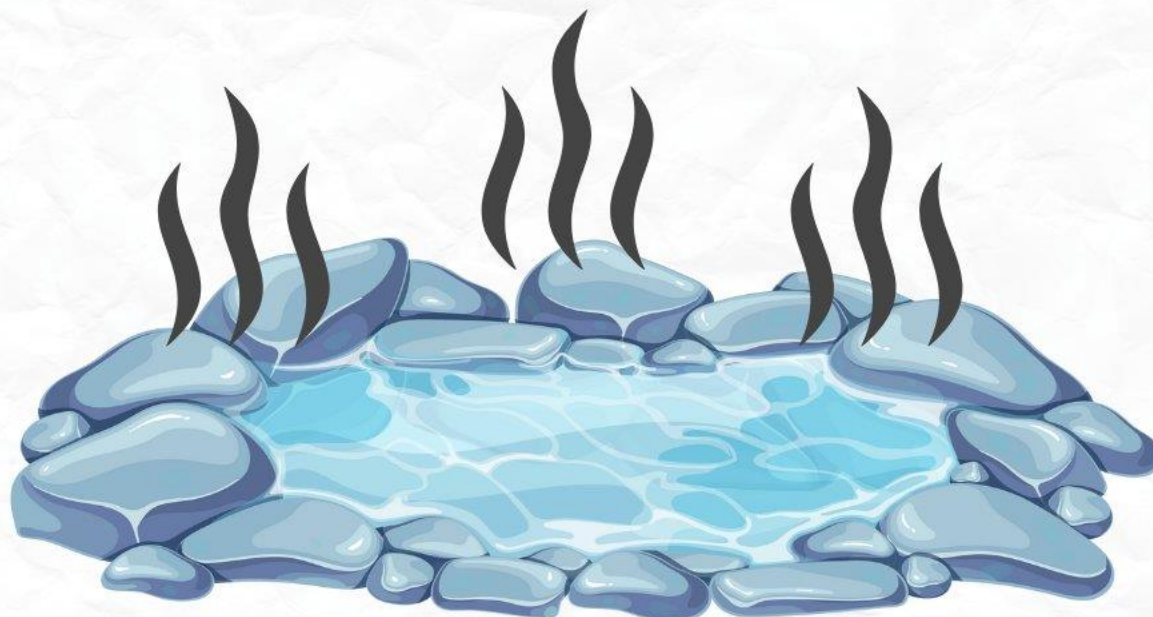




ONE DAY ONE GENOME

Bordetella bronchiseptica

Isolated from a thermal spring it exhibits unique genomic features that are not previously observed in clinical strains



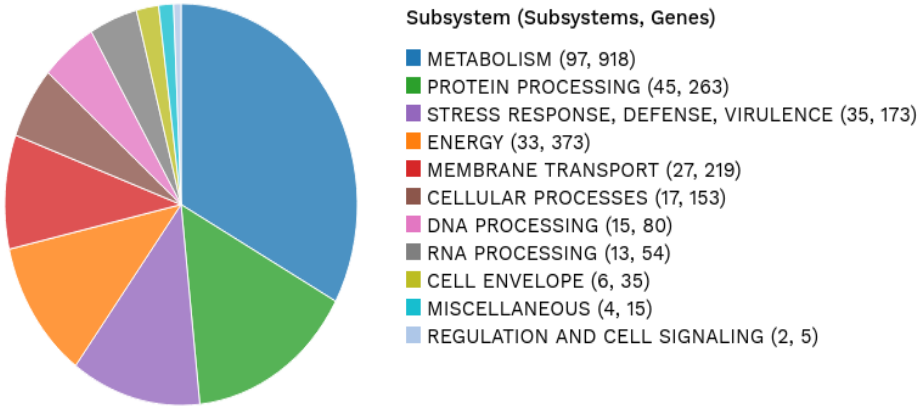
Quality of Genome Assembly and Annotation:

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	43
GC Content	68.16
Contig L50	1
Genome length	5,343,659 bp
Contig N50	5,343,659

Table 2: Annotated Genome Features	
CDS	5,291
tRNA	56
Repeat Regions	76
rRNA	9

Subsystem Analysis



Genome Assembly

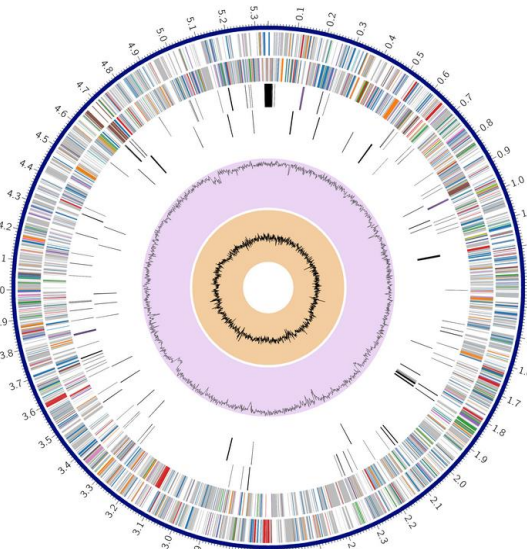


Table 3: Antimicrobial Resistance Genes	
Antibiotic target in susceptible species	Alr, Ddl, dxr, EF-G, EF-Tu, folA, Dfr, folP, gyrA, gyrB, inhA, fabI, Iso-tRNA, kasA, MurA, rho, rpoB, rpoC, S10p, S12p
Efflux pump conferring antibiotic resistance	EmrAB-OMF, EmrAB-TolC, MdtABC-OMF, MdtABC-TolC, MexAB-OprM, MexHI-OpmD, MexHI-OpmD system, MexPQ-OpmE, OprM/OprM family
Protein altering cell wall charge conferring antibiotic resistance	GdpD, PgsA