



Government of India  
Ministry of Science & Technology  
Department of Biotechnology

इस्यमेव ज्ञाने



BRIC  
\* IIT Organization

NIBMG  
National Institute of  
Biomedical Genomics

# ONE DAY ONE GENOME

*Staphylococcus gallinarum*

**CONTRIBUTES TO MICROBIAL HOMEOSTASIS BY  
LIMITING THE GROWTH OF COMPETING  
MICROORGANISMS**



# *Staphylococcus gallinarum*

Genome Accession Number: INS0026117

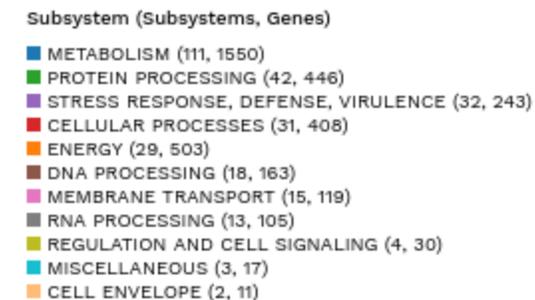
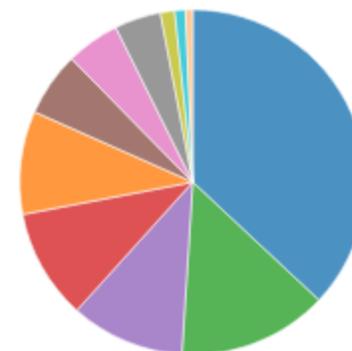
## Quality of Genome Assembly and Annotation:

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

### Subsystem Analysis

Contigs	79
GC Content	36.20
Contig L50	6
Genome length	8,14,800 bp
Contig N50	530,480

CDS	8,370
tRNA	148
rRNA	11



AMR Mechanism	Genes
Antibiotic resistance gene cluster, cassette, or operon	TcaB, TcaB2, TcaR
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
Protein altering cell wall charge conferring antibiotic resistance	GdpD, MprF, PgsA
Efflux pump conferring antibiotic resistance	BceA, BceB, NorA, YkkCD
Gene conferring resistance via absence	gidB
Regulator modulating expression of antibiotic resistance genes	BceR, BceS, LiaF, LiaR, LiaS

### Genome Assembly

