

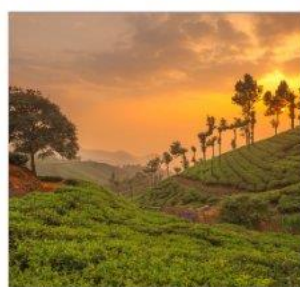


# One Day One Genome



*Santalum album* aster-yellows  
phytoplasma

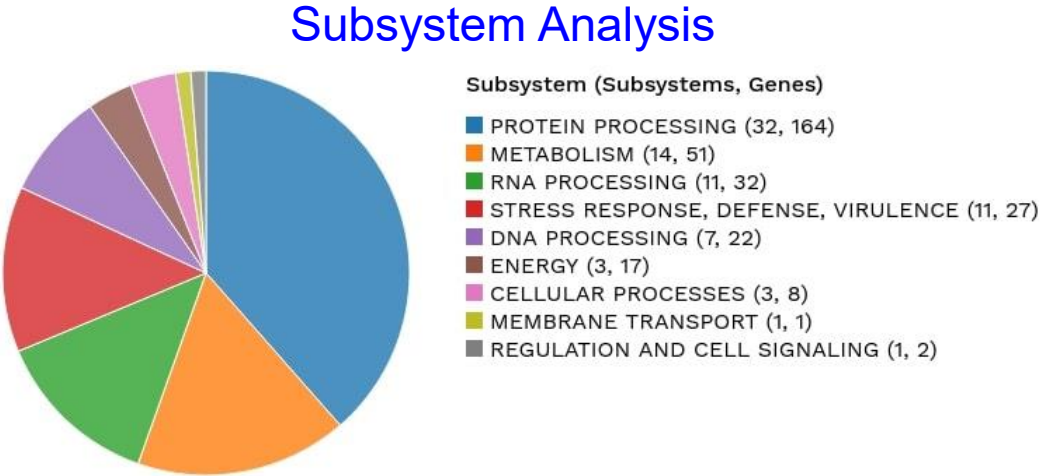
Understanding these genetic tricks paves  
the way for smarter diagnostics and future  
disease-management strategies to  
safeguard India's iconic fragrant tree



**Quality of Genome Assembly and Annotation:**  
Results from indigenously developed **BHARAT** analysis pipeline: (**B**acterial **H**ybrid genome **A**ssembly and **R**apid **A**nnnotation **T**oolset)

| Table 1: Assembly Details |            |
|---------------------------|------------|
| Contigs                   | 20         |
| GC Content                | 28.54      |
| Contig L50                | 4          |
| Genome length             | 554,025 bp |
| Contig N50                | 65,478     |

| Table 2: Annotated Genome Features |     |
|------------------------------------|-----|
| CDS                                | 563 |
| tRNA                               | 27  |
| Repeat Regions                     | 0   |
| rRNA                               | 2   |



| Table 3: Antimicrobial Resistance Genes                            |                                                                            |
|--------------------------------------------------------------------|----------------------------------------------------------------------------|
| AMR Mechanism                                                      | Genes                                                                      |
| Antibiotic target in susceptible species                           | EF-G, EF-Tu, folA, Dfr, folP, gyrA, gyrB, Iso-tRNA, rpoB, rpoC, S10p, S12p |
| Gene conferring resistance via absence                             | gidB                                                                       |
| Protein altering cell wall charge conferring antibiotic resistance | PgsA                                                                       |

