



DEPARTMENT OF BIOTECHNOLOGY  
Ministry of Science & Technology  
Government of India



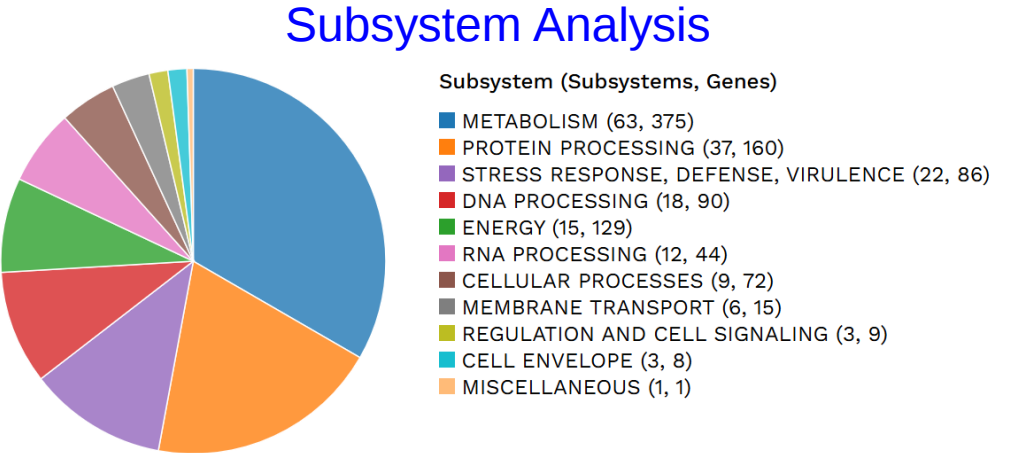
# ONE DAY ONE GENOME

## *Lactiplantibacillus plantarum*

HAS CHOLESTROL LOWERING  
ABILITY AND POTENTIAL  
PROBIOTIC FEATURES



| Table 1: Assembly Details |              | Table 2: Annotated Genome Features |       |
|---------------------------|--------------|------------------------------------|-------|
| Contigs                   | 64           | CDS                                | 3,354 |
| GC Content                | 44.36        | tRNA                               | 57    |
| Contig L50                | 4            | Repeat Regions                     | 0     |
| Genome length             | 3,342,251 bp | rRNA                               | 3     |
| Contig N50                | 297,907      |                                    |       |



| Table 3: Antimicrobial Resistance Genes                            |                                                                                                                   |
|--------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------|
| AMR Mechanism                                                      | Genes                                                                                                             |
| Antibiotic target in susceptible species                           | Alr, Ddl, EF-G, EF-Tu, folA, Dfr, folP, gyrA, gyrB, inhA, fabI, Iso-tRNA, kasA, MurA, rho, rpoB, rpoC, S10p, S12p |
| Antibiotic target modifying enzyme                                 | RlmA(II)                                                                                                          |
| Antibiotic target replacement protein                              | FabK                                                                                                              |
| Antibiotic target replacement protein                              | FabK                                                                                                              |
| Protein altering cell wall charge conferring antibiotic resistance | GdpD, MprF, PgsA                                                                                                  |

