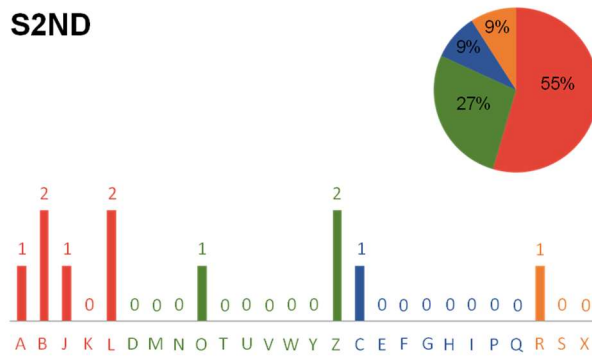


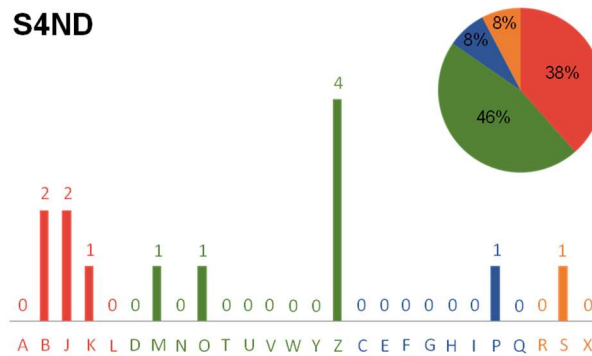
## S2ND



### INFORMATION STORAGE AND PROCESSING

- (A) RNA processing and modification
- (B) Chromatin structure and dynamics
- (J) Translation, ribosomal structure and biogenesis
- (K) Transcription
- (L) Replication, recombination and repair

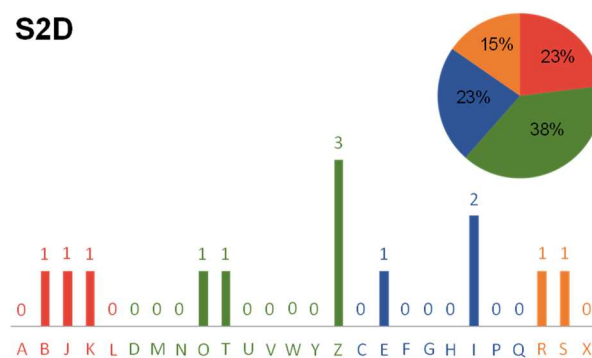
## S4ND



### CELLULAR PROCESSES AND SIGNALING

- (D) Cell cycle control, cell division, chromosome partitioning
- (M) Cell wall/membrane/envelope biogenesis
- (N) Cell motility
- (O) Posttranslational modification, protein turnover, chaperones
- (T) Signal transduction mechanisms
- (U) Intracellular trafficking, secretion and vesicular transport
- (V) Defense mechanisms
- (W) Extracellular structure
- (Y) Nuclear structure
- (Z) Cytoskeleton

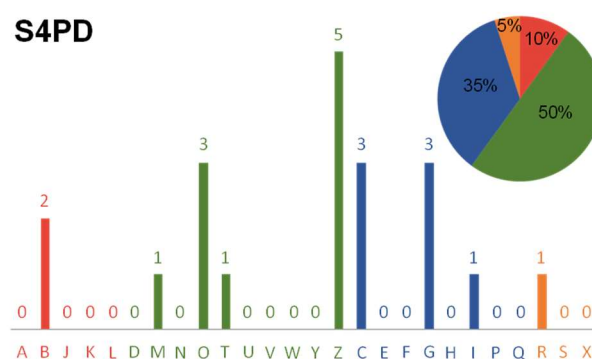
## S2D



### METABOLISM

- (C) Energy production and conversion
- (E) Amino acid transport and metabolism
- (F) Nucleotide transport and metabolism
- (G) Carbohydrate transport and metabolism
- (H) Coenzyme transport and metabolism
- (I) Lipid transport and metabolism
- (P) Inorganic ion transport and metabolism
- (Q) Secondary metabolites biosynthesis transport and catabolism

## S4PD



### POORLY CHARACTERIZED

- (R) General function prediction only
- (S) Function unknown
- (X) Unnamed protein

**Supplementary Figure 2.** Functional categorization of the proteins identified in non-diapausing (S2ND and S4ND), diapausing (S2D) and post-diapausing (S4PD) eggs of *Mahanarva spectabilis*. The colors are associated with specific signatures in the KOG categories as detailed in the four boxes at right. Numbers above the bars represent the number of proteins found for each KOG category.