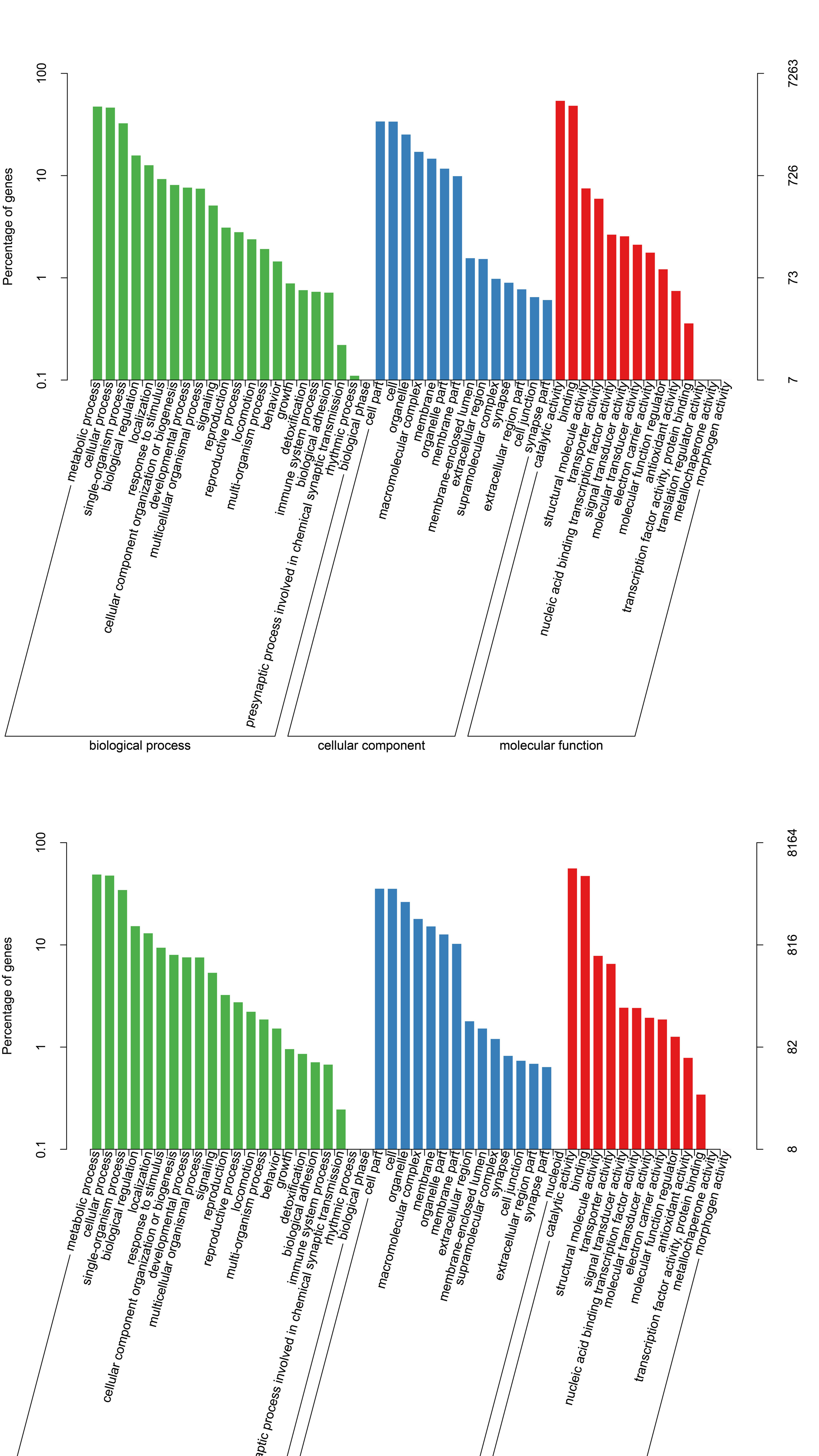


Fig. S1 GO enrichment of (A) *S. graminum*, (B) *R. padi*.

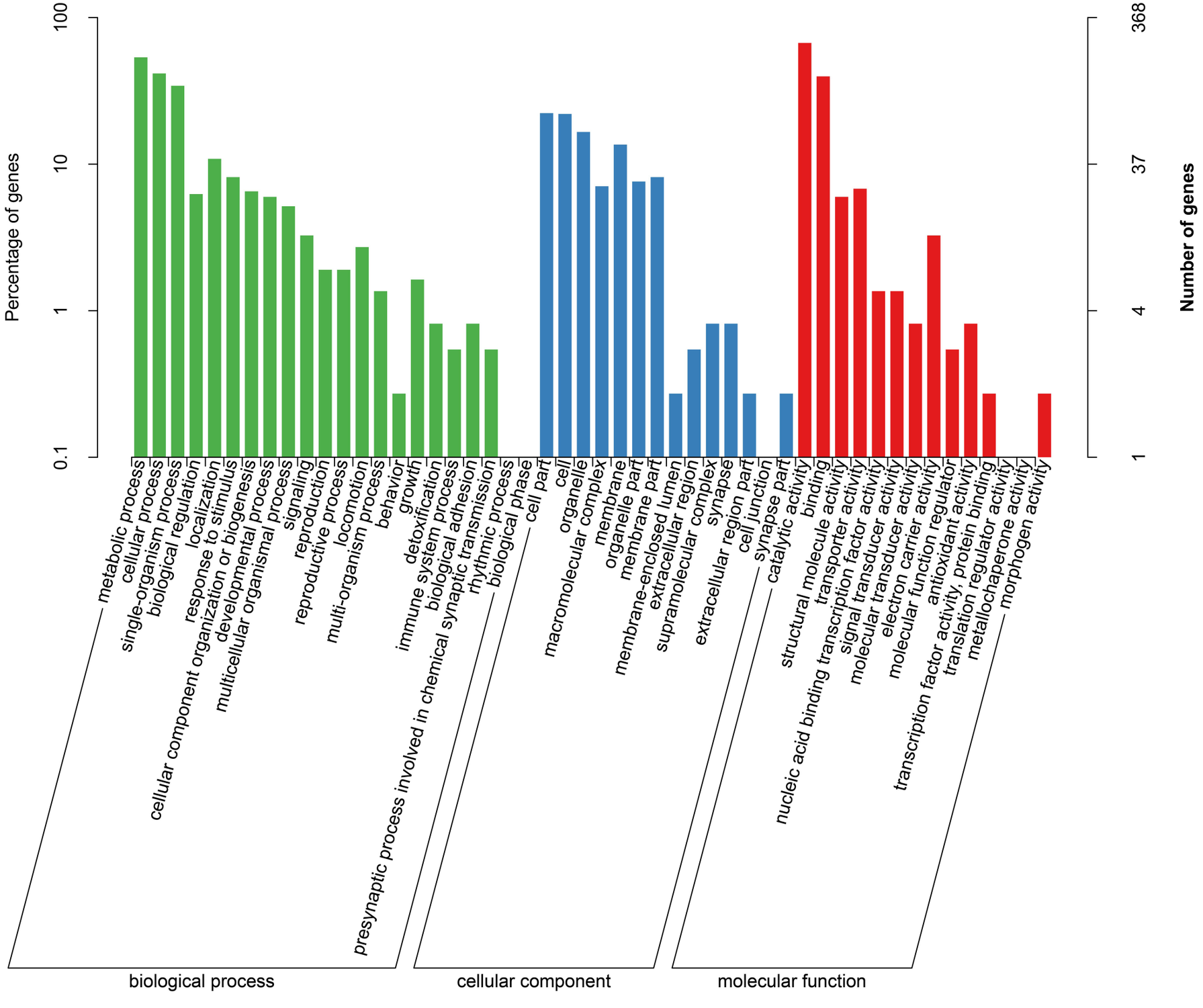


Fig. S2 GO enrichment analysis of DEGs of *S. graminum* fed on BYDV-infected wheat.

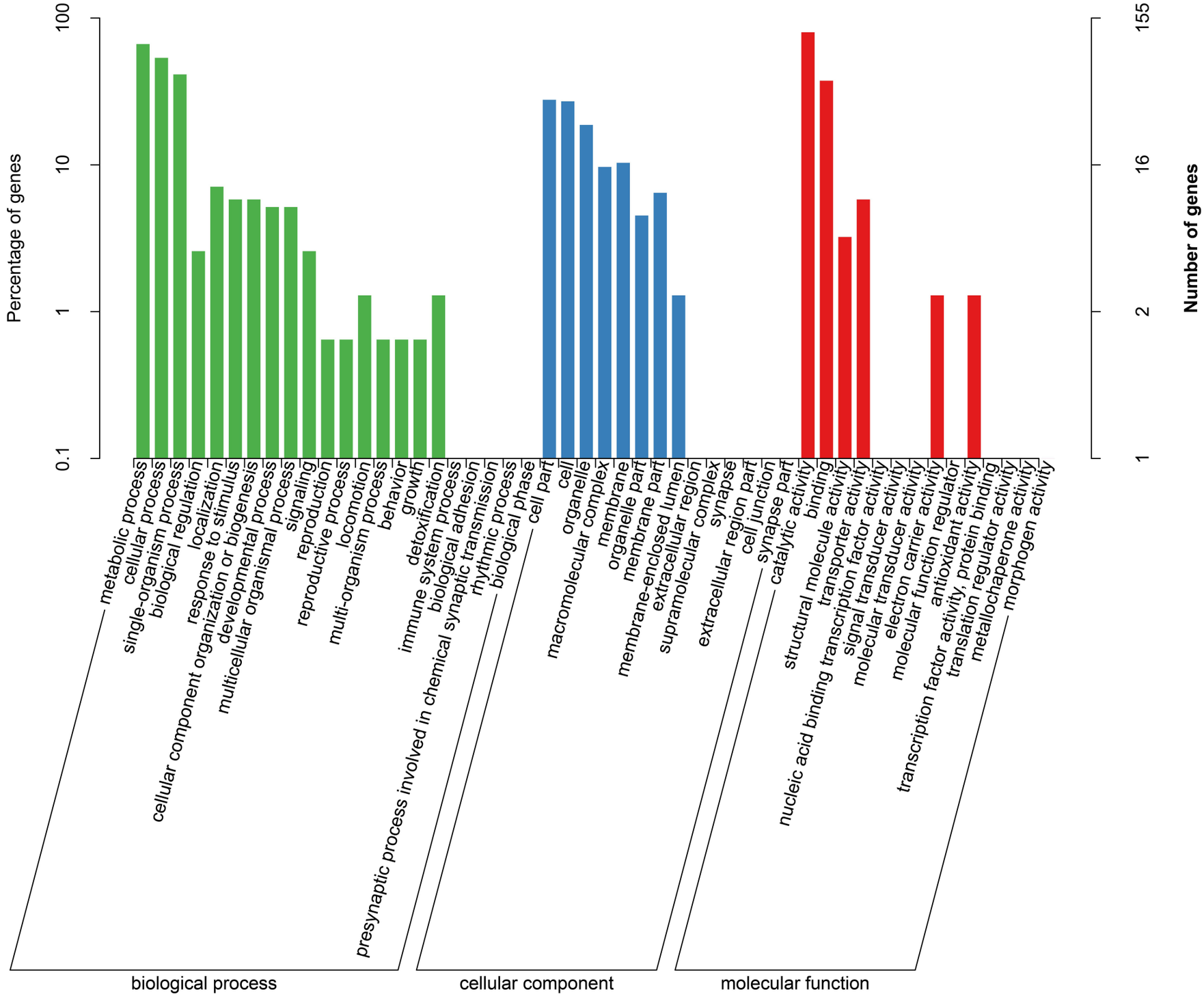


Fig. S3 GO enrichment analysis of DEGs of *S. graminum* fed on WDV-infected wheat.

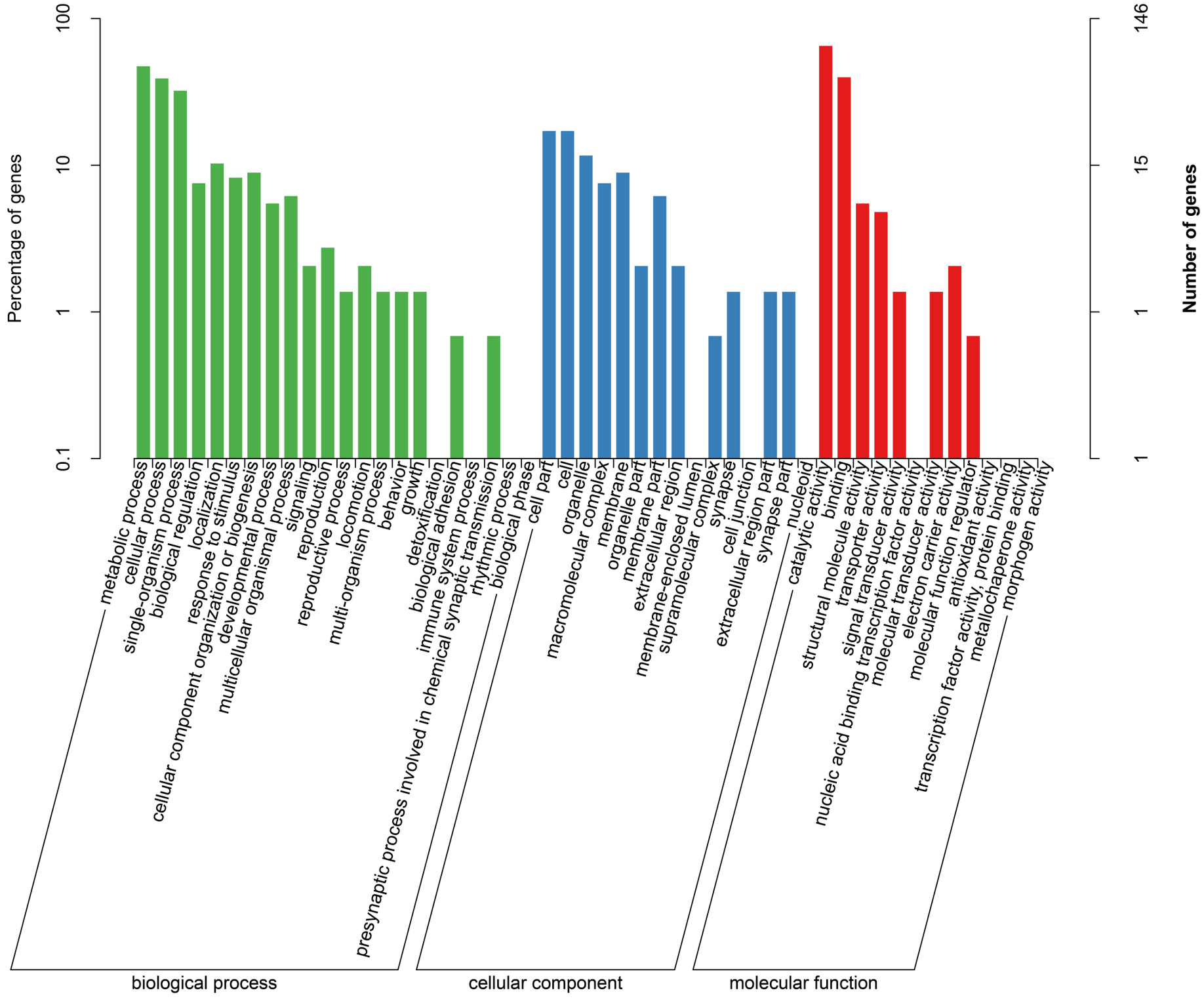


Fig. S4 GO enrichment analysis of DEGs of *R. padi* fed on BYDV-infected wheat.

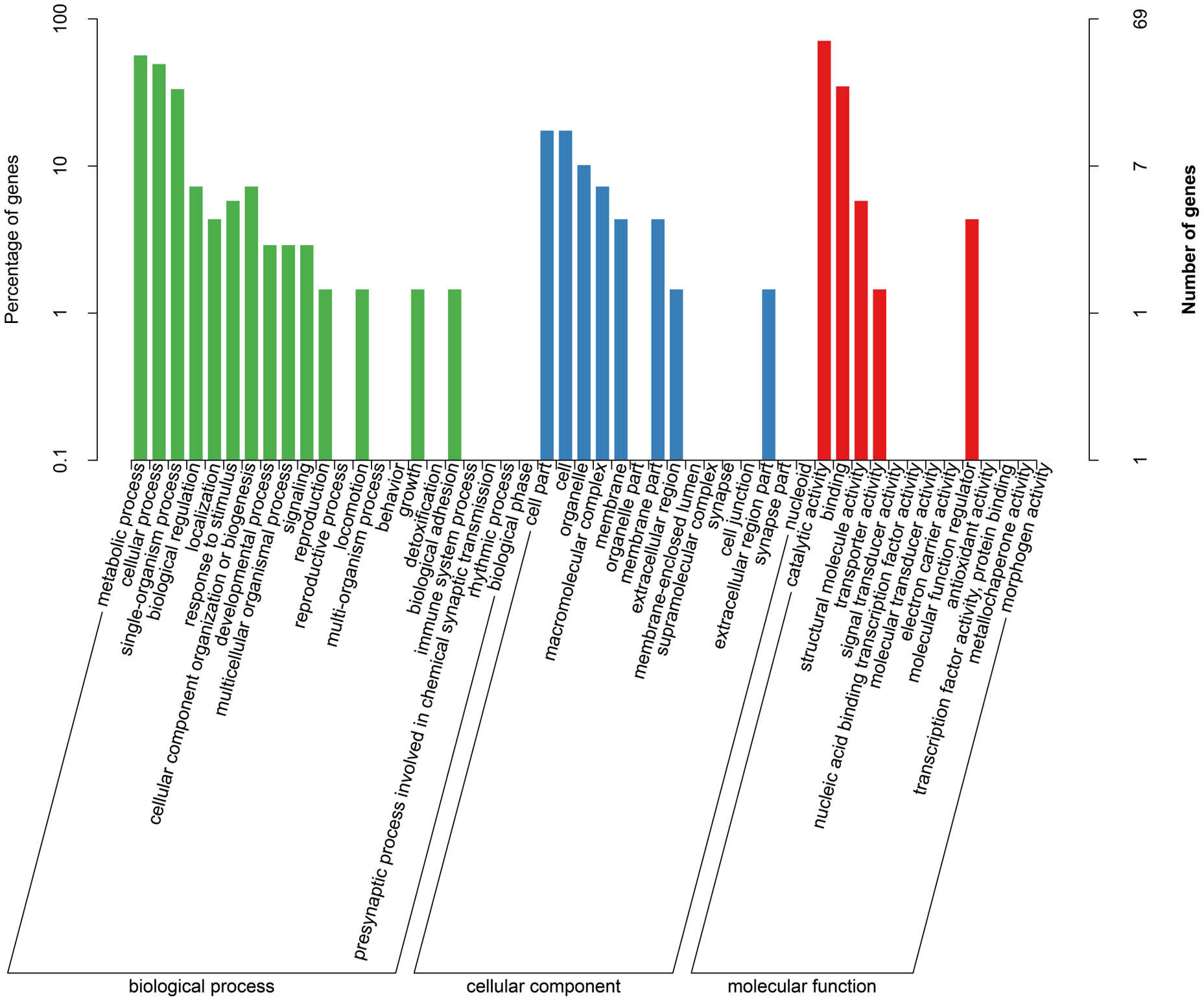


Fig. S5 GO enrichment analysis of DEGs of *R. padi* fed on WDV-infected wheat.

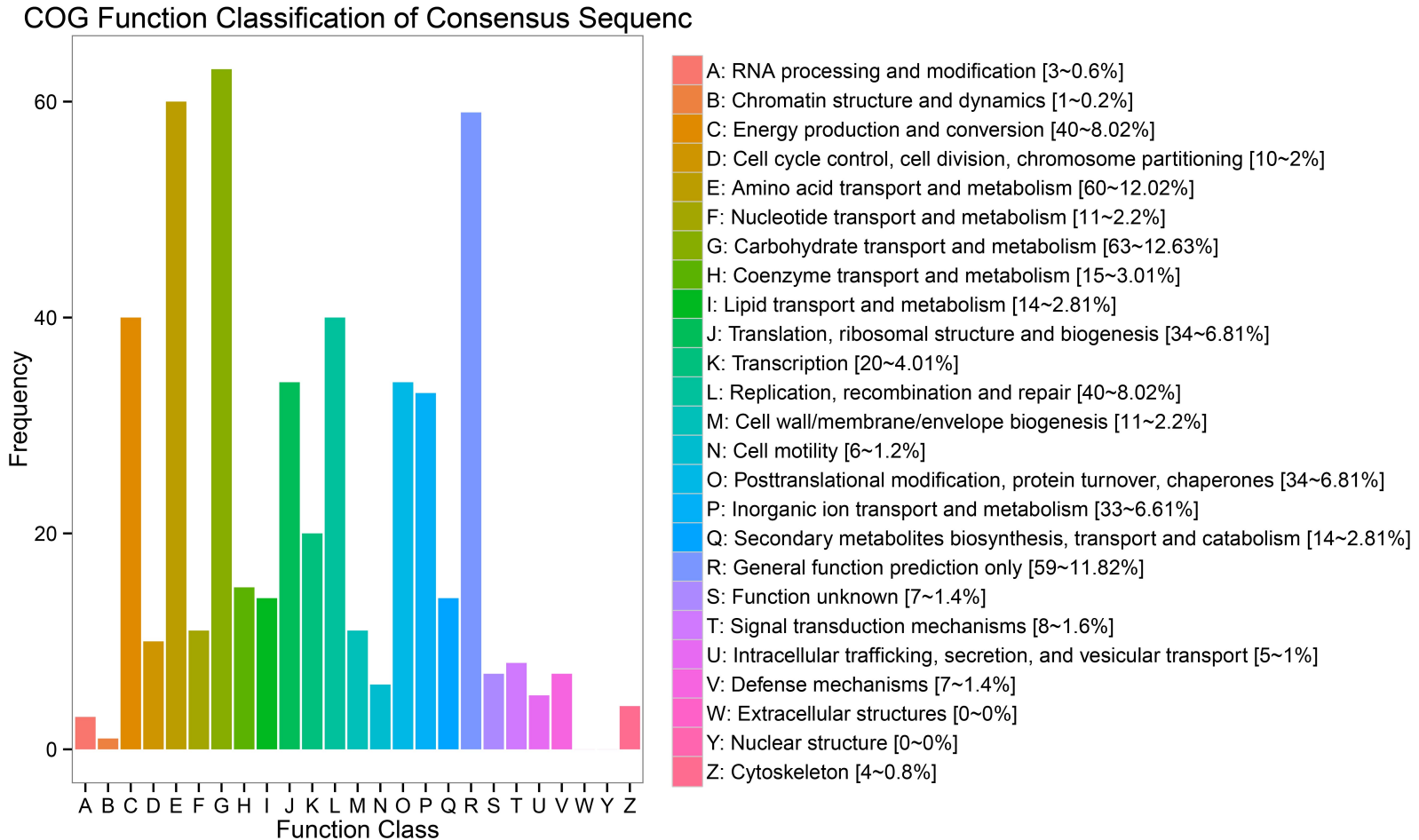


Fig. S6 COG enrichment analysis of DEGs of *S. graminum* fed on BYDV-infected wheat.

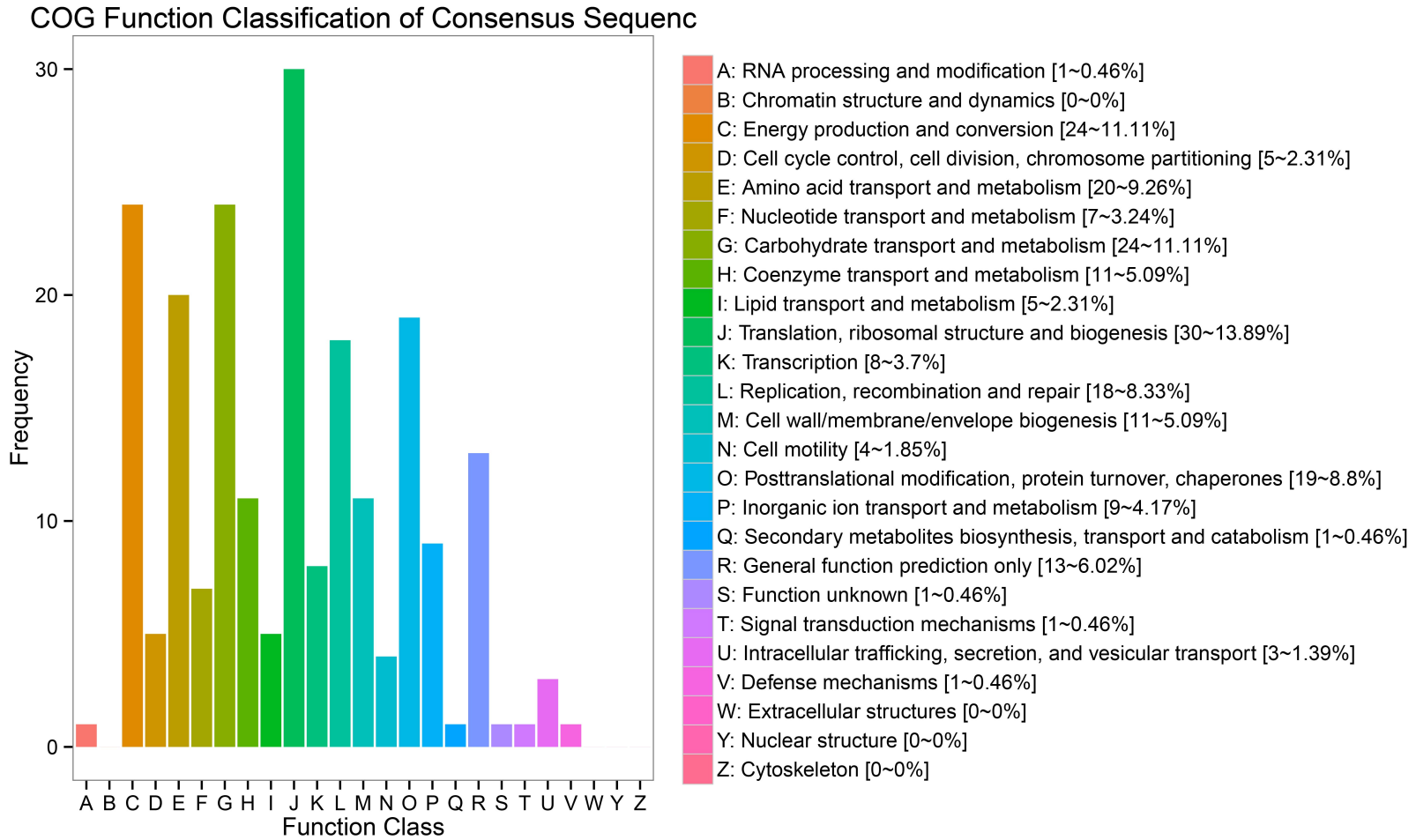


Fig. S7 COG enrichment analysis of DEGs of *S. graminum* fed on WDV-infected wheat.

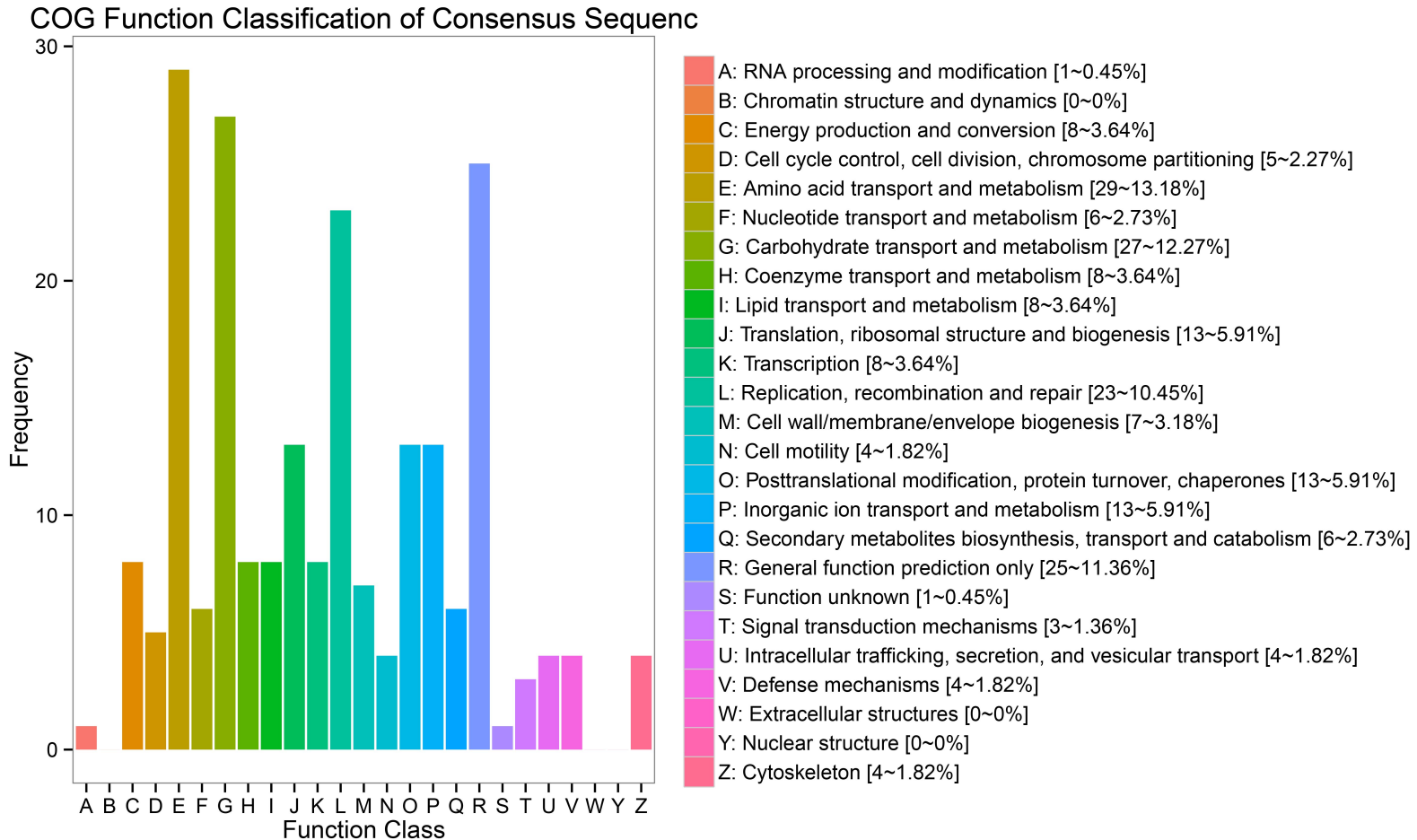


Fig. S8 COG enrichment analysis of DEGs of *R. padi* fed on BYDV-infected wheat.

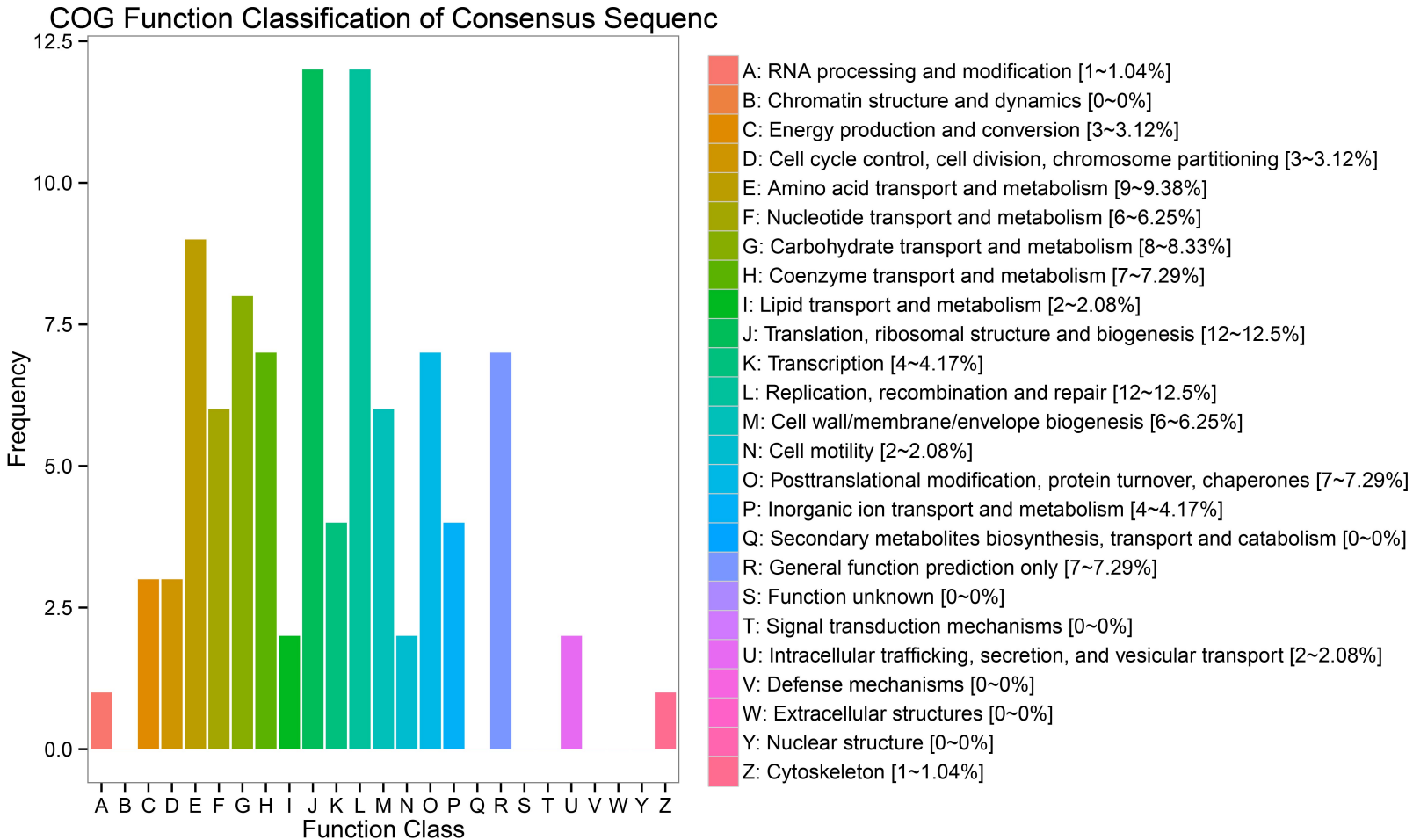


Fig. S9 COG enrichment analysis of DEGs of *R. padi* fed on WDV-infected wheat.

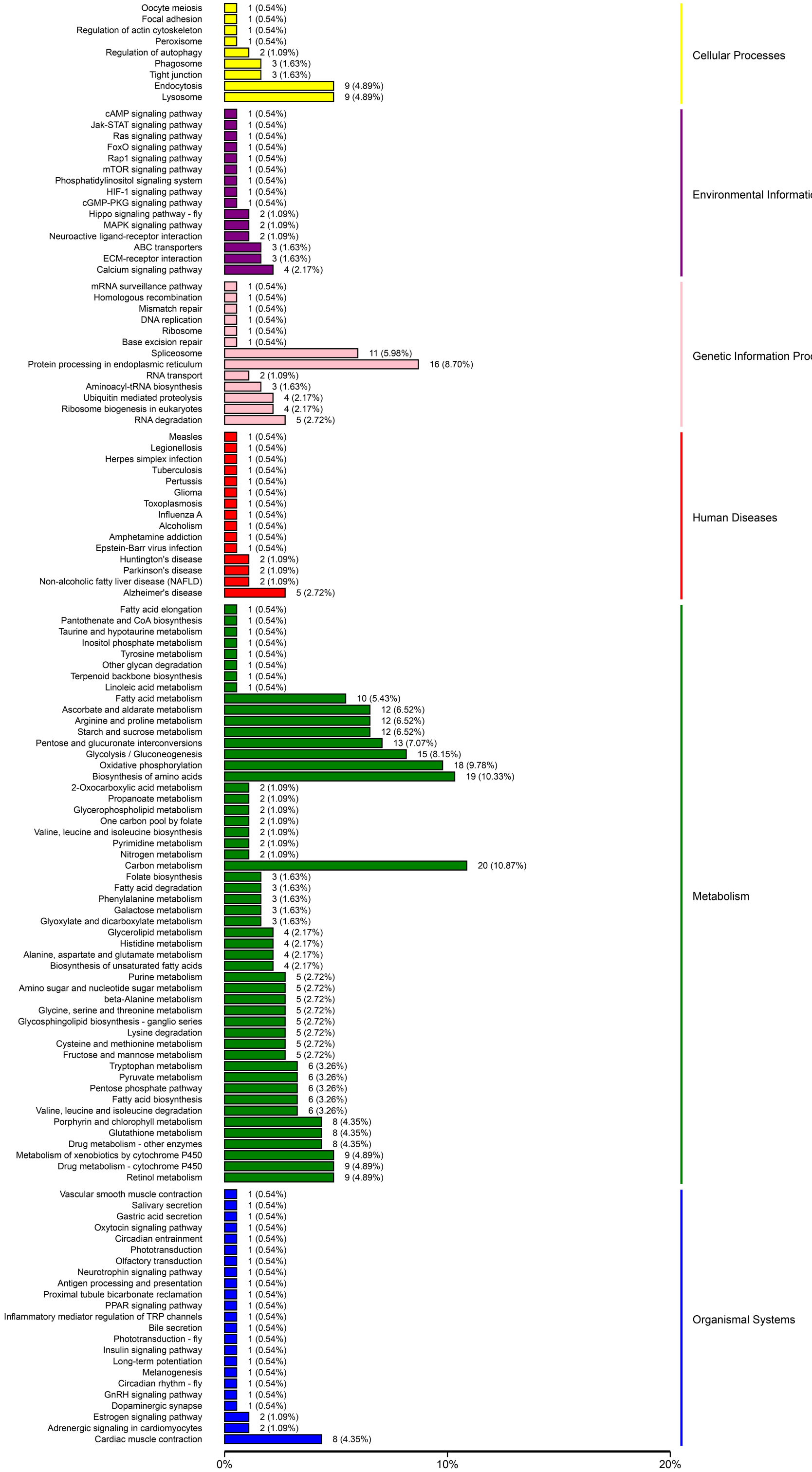


Fig. S10 KEGG pathway analysis of DEGs of *S. graminum* fed on BYDV-infected wheat.

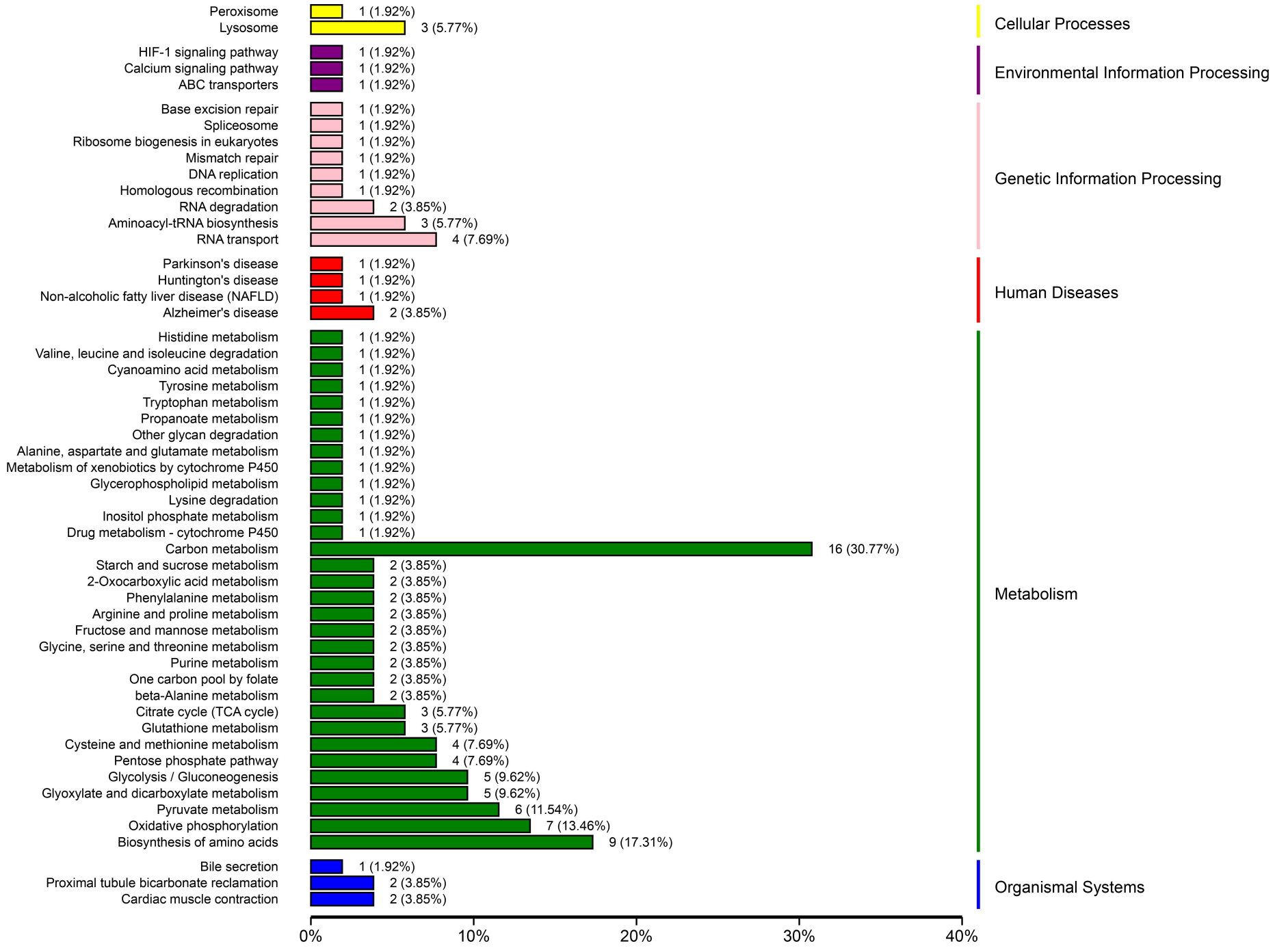


Fig. S11 KEGG pathway analysis of DEGs of *S. graminum* fed on WDV-infected wheat.

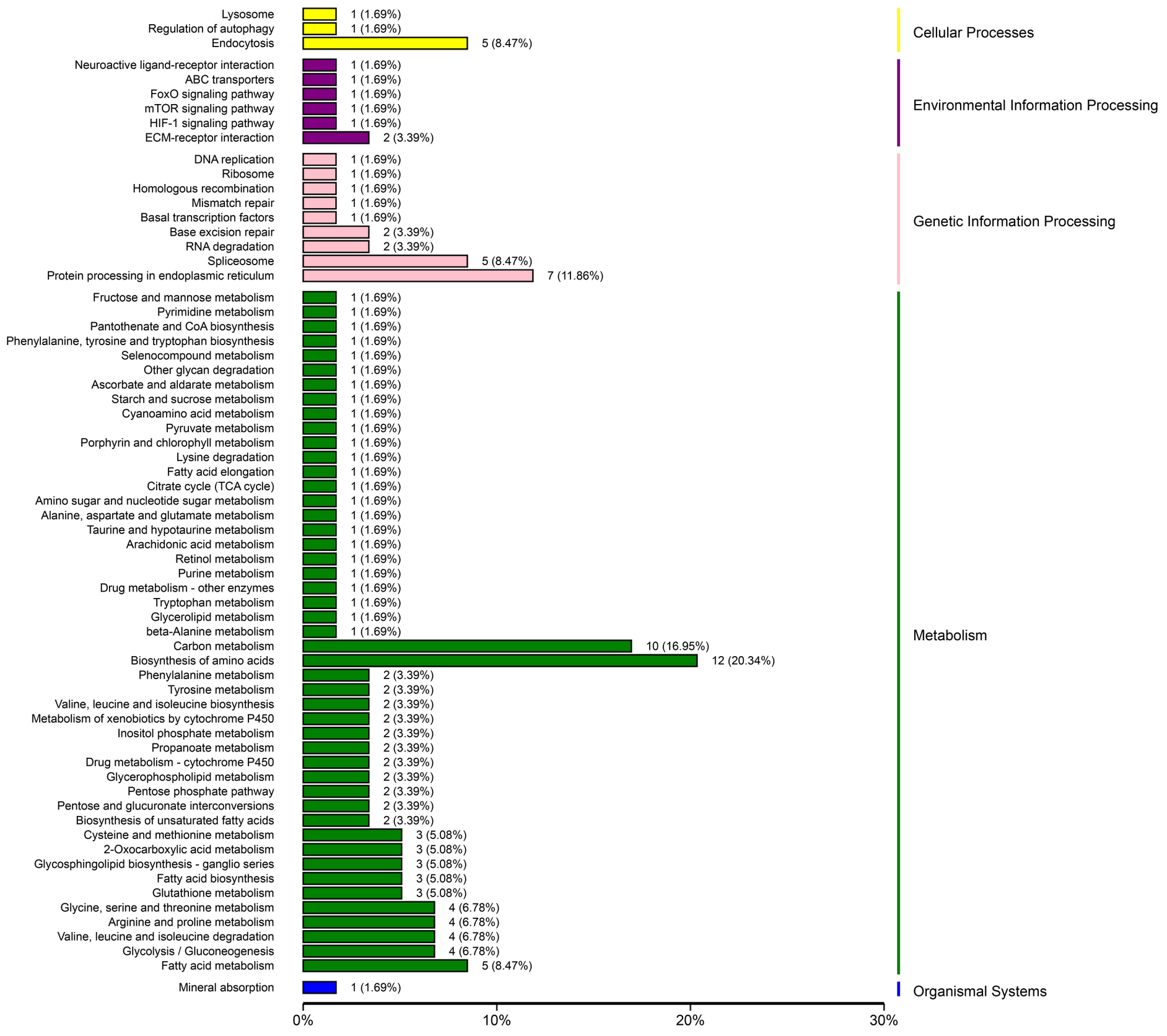


Fig. S12 KEGG pathway analysis of DEGs of *R. padi* fed on BYDV-infected wheat.

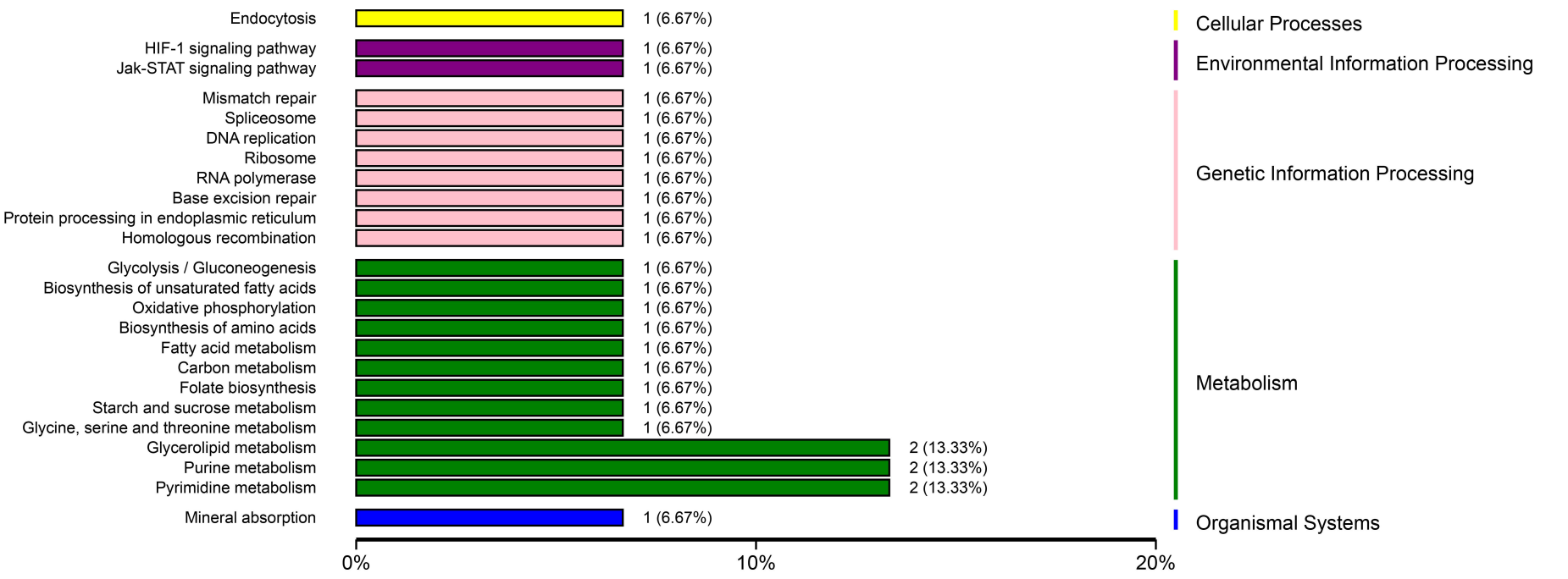


Fig. S13 KEGG pathway analysis of DEGs of *R. padi* fed on WDV-infected wheat.

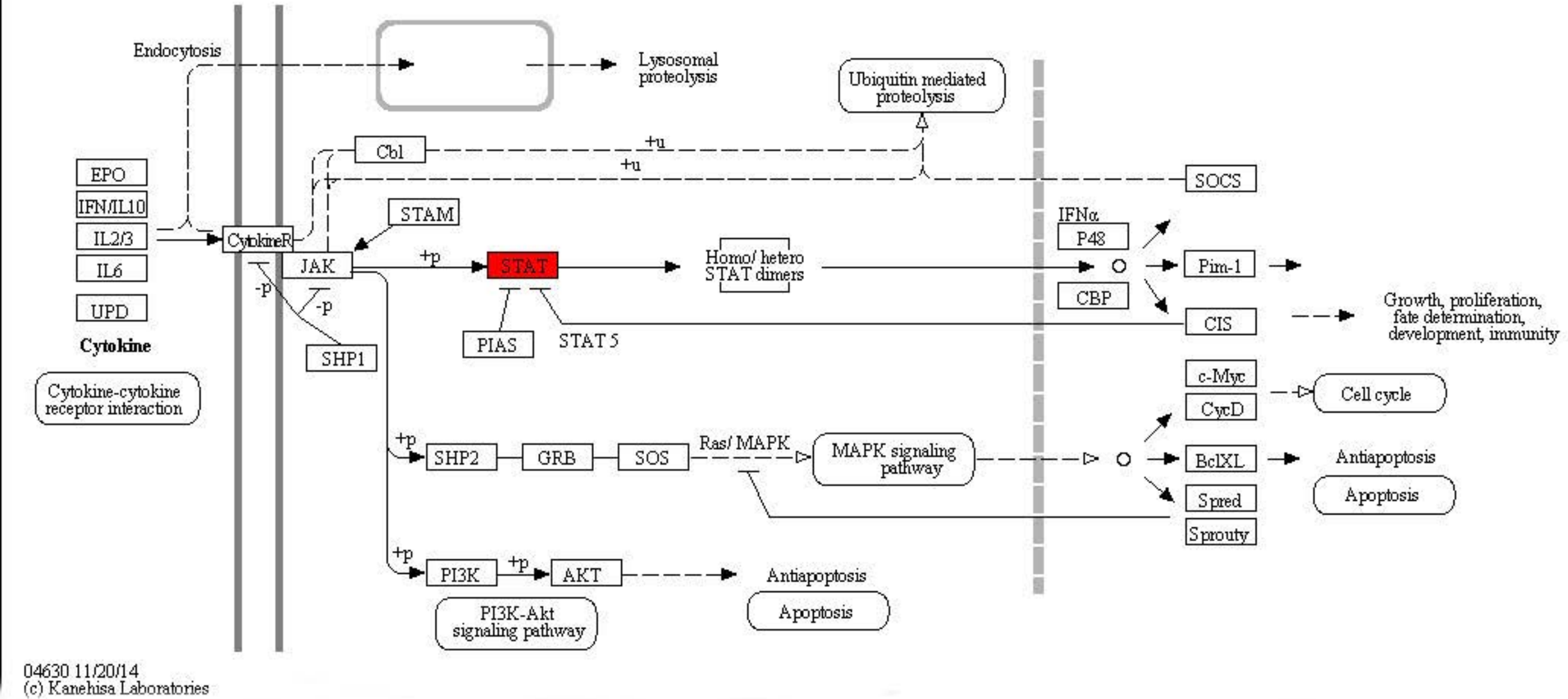


Fig. S14 JAK/STAT signaling pathway