

Description of Additional Supplementary Files

Supplementary Data S1: Enrichment analysis for the core proteome in *B. mori*

Supplementary Data S2: Enrichment analysis for proteins associated with stage-specific expression in *B. mori*

Supplementary Data S3: Enrichment analysis for the proteins associated with respective clusters in *B. mori*

Supplementary Data S4: Significantly abundant transcripts in Ewhite or Ebrown in comparison to each other, with information about maternal *Drosophila* genes

Supplementary Data S5: Significantly abundant proteins in Ewhite or Ebrown in comparison to each other, with information about maternal *Drosophila* genes

Supplementary Data S6: Gene Ontology and KEGG term enrichment for transcripts significantly abundant in Ewhite or Ebrown in comparison to each other

Supplementary Data S7: Enrichment analysis for transcripts associated with stage specific expression in *B. mori*

Supplementary Data S8: Enrichment analysis for the transcripts associated with respective clusters in *B. mori*

Supplementary Data S9: Enrichment analysis for genes associated with negative, no (zero) and positive transcript protein correlation in *B. mori*

Supplementary Data S10: Enrichment analysis for genes associated with groups based on transcript-protein indexes in *B. mori*

Supplementary Data S11: Selected *D. melanogaster* timepoints with corresponding SRA ids and proteome timepoints

Supplementary Data S12: Enrichment analysis for orthologs associated with negative, no (zero) and positive protein correlation between *B. mori* and *D. melanogaster*

Supplementary Data S13: Enrichment analysis of highly correlated orthologs per stage between protein levels of *B. mori* and *D. melanogaster*

Supplementary Data S14: Enrichment analysis for orthologs associated with negative, no (zero) and positive transcript correlation between *B. mori* and *D. melanogaster*

Supplementary Data S15: Enrichment analysis of highly correlated orthologs per stage between transcript levels of *B. mori* and *D. melanogaster*

Supplementary Data S16: Data analysis tools and their respective versions, references and websites

Supplementary Data S17: Metadata for all *Bombyx mori* timepoints with corresponding SRA ids, PRIDE ids and for both respective filenames