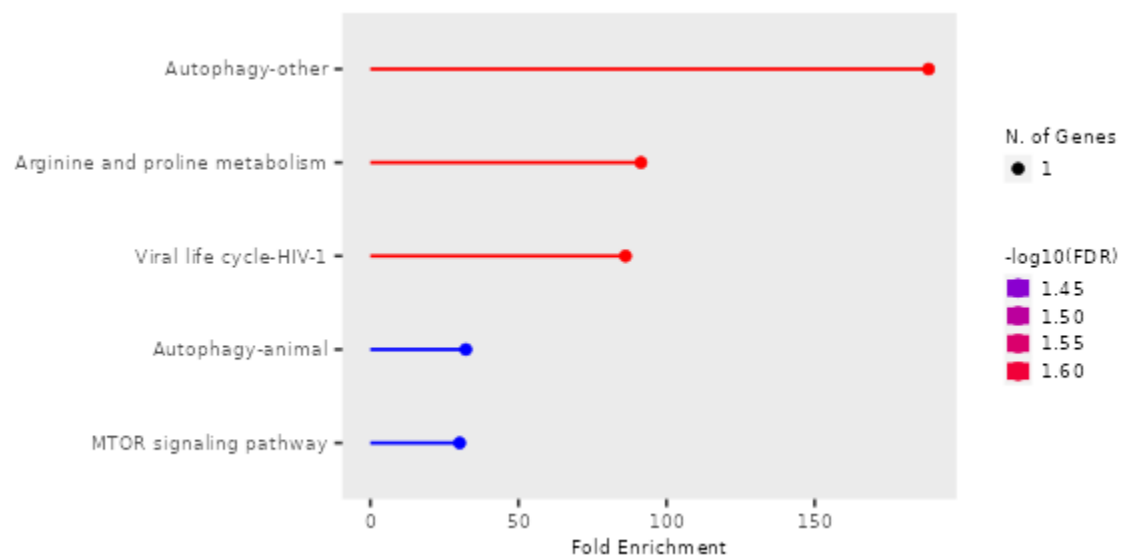
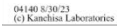


FigureM1: Interaction of genes with different pathways - Network analysis indicated that they are involving in autophagy, protein metabolism and mTOR pathway



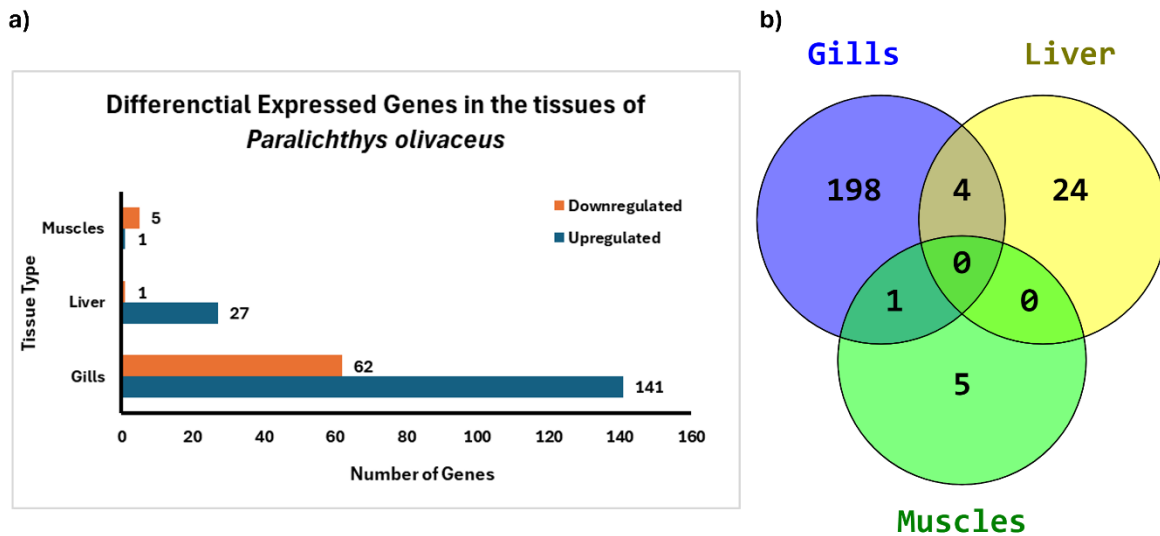
FigureM2: Fold enrichment of most common pathways observed for the DEGs of liver tissues - Autophagy, which is involved in heat stress



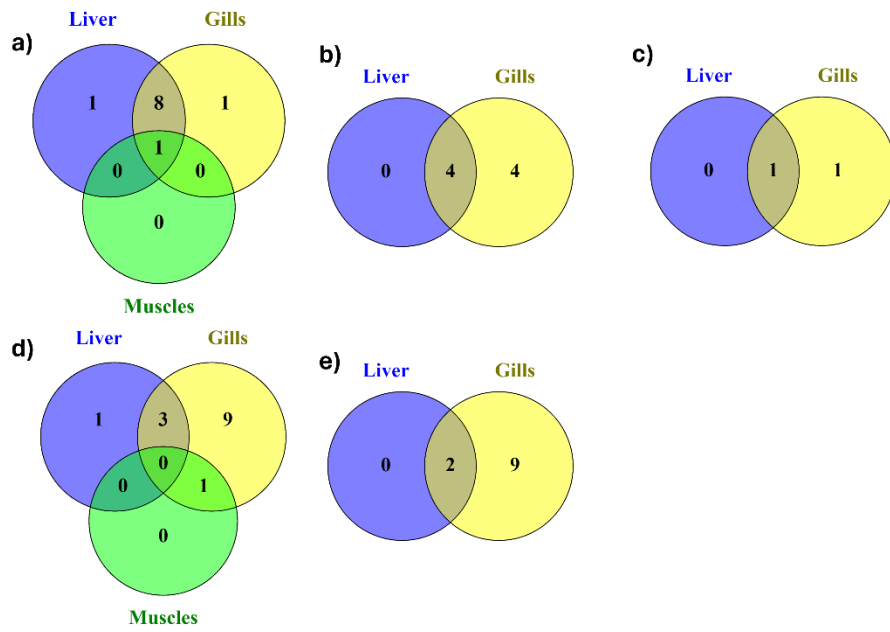
FigureM3: KEGG pathway of *ulk2* involvement in autophagy in animals



FigureM4: Enrichr analysis for a) *ulk2* co-occurrence in biological processes and KEGG pathways and b) *gadd45g* co-occurrence in biological processes and KEGG pathways



FigureM5: a) DEG expression and their upregulation and downregulation in muscles, liver, and gills of *Paralichthys olivaceus* b) Venn diagram to identify the common and unique DEGs present in each tissue.



FigureM6: Common and unique GO terms among Liver, Gills and muscles for a) Biological Processes, b) Molecular Functions, c) Cellular components, d) Protein classes, e) pathway