

#### 4. Standard Analysis (*de novo* transcriptome)

Data Quality Control: filtering reads containing adapter or with low quality
Statistics Analysis of Data Production and Quality
De novo Transcriptome Assembly
Gene Functional Annotation Using Seven Databases (NR, NT, KOG, KO, Swiss-Prot, GO and PFAM)
GO, COG, KEGG Classification
CDS Prediction
SNP & InDel Analysis
SSR Analysis
Gene Expression Analysis
Correlation analysis (For biological replicates only)
Differential Expression Analysis (two or more groups of samples)
GO Enrichment Analysis of Differentially Expressed Genes (DEGs) (two or more groups of samples)
KEGG Pathway Enrichment Analysis of Differentially Expressed Genes (DEGs) (two or more groups of samples)
Protein-Protein Interaction Analysis