## 3. Quantification Analysis with reference

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| Data Quality Control: filtering reads containing adapter or with low quality |
| Statistics Analysis of Data Production and Quality |
| Mapping Reads to Reference Genome |
| Gene Expression Quantification |
| Correlation analysis (For biological replicates only) |
| Differential Expression Analysis (two or more groups of samples) |
| GO Enrichment Analysis and KEGG Pathway Enrichment Analysis of Differentially Expressed Genes (DEGs) (two or more groups of samples) |
| Protein Protein Interaction Analysis |
| Transcription Factor Analysis of Differentially Expressed Genes (DEGs) (two or more groups of samples)(for plants only) Transcription Factor Analysis (for animals) |