1. Bioinformatics Analysis

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| **Data quality control** |
| Distribution of Sequencing Quality |
| Distribution of Sequencing Error Rate |
| Distribution of A/T/G/C Base |
| Statistic Summary of Sequencing Quality. Including amount of data output, error rate, Q30 and GC content, etc. |

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| **Standard Analysis** |
| Data quality control: filtering reads containing adapter or with low quality |
| Alignment with reference genome, statistics of sequencing depth and coverage |
| Variant (SNP, InDel) calling, annotation and statistics |

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| **Standard Analysis** |
| Data quality control: filtering reads containing adapter or with low quality |
| Alignment with reference genome, statistics of sequencing depth and coverage |
| Variant (SNP, InDel) calling, annotation and statistics |
| **Advanced Analysis** |
| SV calling, annotation and statistics |
| CNV calling, annotation and statistics |
| Somatic SNP/InDel (paired samples) |