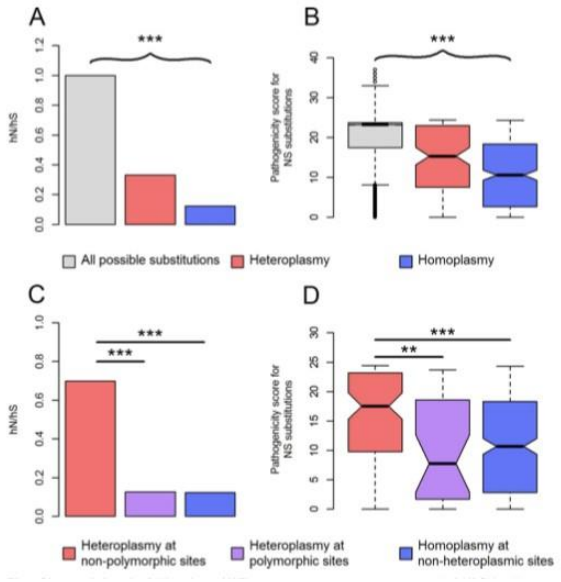
Mitochondrial Whole Genome Sequencing

Mitochondrial whole genome sequencing uses a high-throughput sequencing platform for mitochondrial whole genome sequencing of different individuals or groups and bioinformatic analysis at the individual or population level. Mitochondrial whole genome sequencing can fully explore the genetic variation of mtDNA level, and provide important information for screening disease pathogenic and susceptible genes, studying disease genetic mechanism, evolution, and population genetics.



Analysis Content

- Raw data collation and quality evaluation
- Sequence filtering, statistical enrichment efficiency
- Reference genome alignment and annotation statistics
- SNV/InDel/CNV/SV detection, comments, statistics

Based on liquid phase probe hybridization capture technology and multiple PCR amplification technology, Creative Biogene developed two sets of mitochondrial capture schemes for mtDNA capture and combined with the Illumina platform for high-throughput, high-depth sequencing, and finally carried out bioinformatics analysis to provide a solution for mitochondrial genome detection.