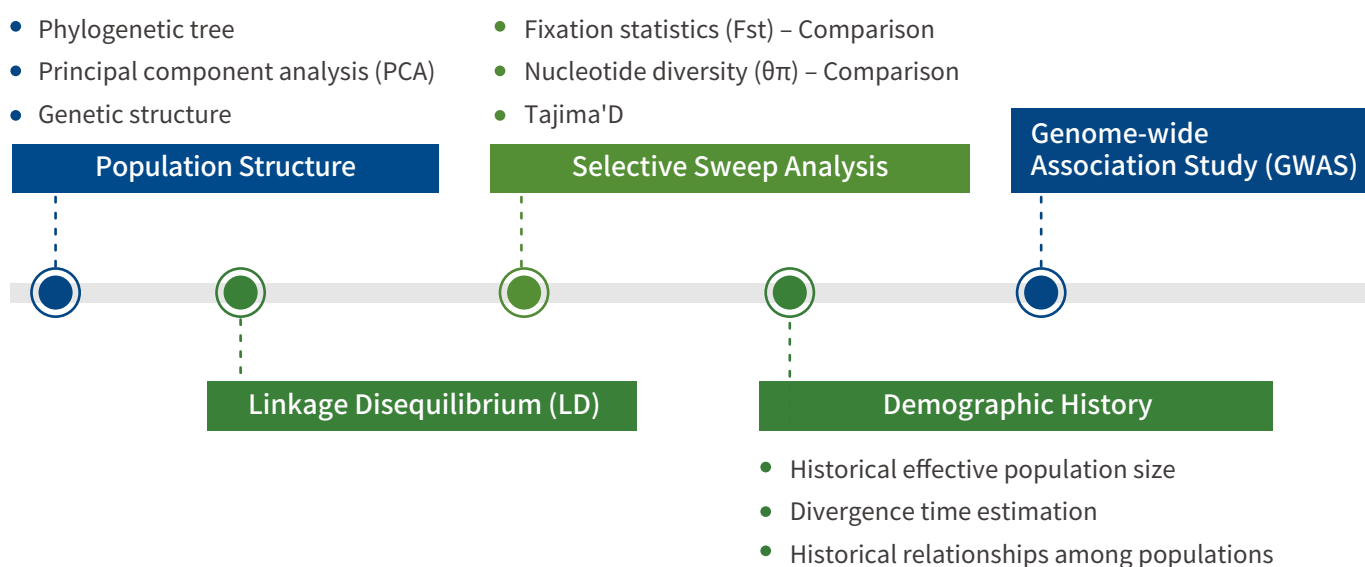


Advanced Analysis for Plant and Animal Whole Genome Sequencing

With advancements in next-generation sequencing technology, whole genome re-sequencing (WGS) has become the most rapid and effective method to identify the genetic variations in individuals of the same species or between related species. The variation information such as single nucleotide polymorphism (SNP), insertion and deletion (InDel), copy number variation (CNV), and structural variation (SV) obtained through re-sequencing is used in population genetics research and genome-wide association studies (GWAS). These powerful tools are used to investigate the causes of diseases, to select plants and animals in agricultural breeding programs, and to identify common genetic variations among populations.

Advanced Analysis – Population Genetics Research and GWAS analysis



Novogene Advantages

- Scalable Sequencing Capacity
- Competitive Pricing
- Extensive In-House Bioinformatics Expertise

Service Highlights

- Comprehensive standard and advanced analysis pipeline
- Customized analysis to meet your research needs
- Best-in-class and widely recognized software

Novogene Powered Literature

Year	Journal	Title
2020	<i>Nature communications</i>	Whole-genome resequencing of wild and domestic sheep identifies genes associated with morphological and agronomic traits
2020	<i>Plant biotechnology journal</i>	Genome-wide expression quantitative trait locus analysis in a recombinant inbred line population for trait dissection in peanut
2019	<i>Molecular Biology and Evolution</i>	Phylogenomics reveals an ancient hybrid origin of the persian walnut
2018	<i>Nature communications</i>	Genome re-sequencing reveals the evolutionary history of peach fruit edibility
2018	<i>Nature Genetics</i>	Resequencing a core collection of upland cotton identifies genomic variation and loci influencing fiber quality and yield
2018	<i>Nature communications</i>	Genetic variation in <i>PTPNI</i> contributes to metabolic adaptation to high-altitude hypoxia in Tibetan migratory locusts

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