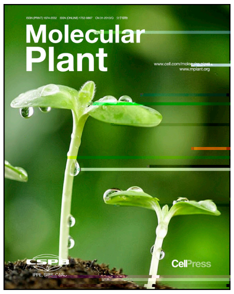


MOLECULAR PLANT

Location module

Crossing nursery

Genetic variation analysis module

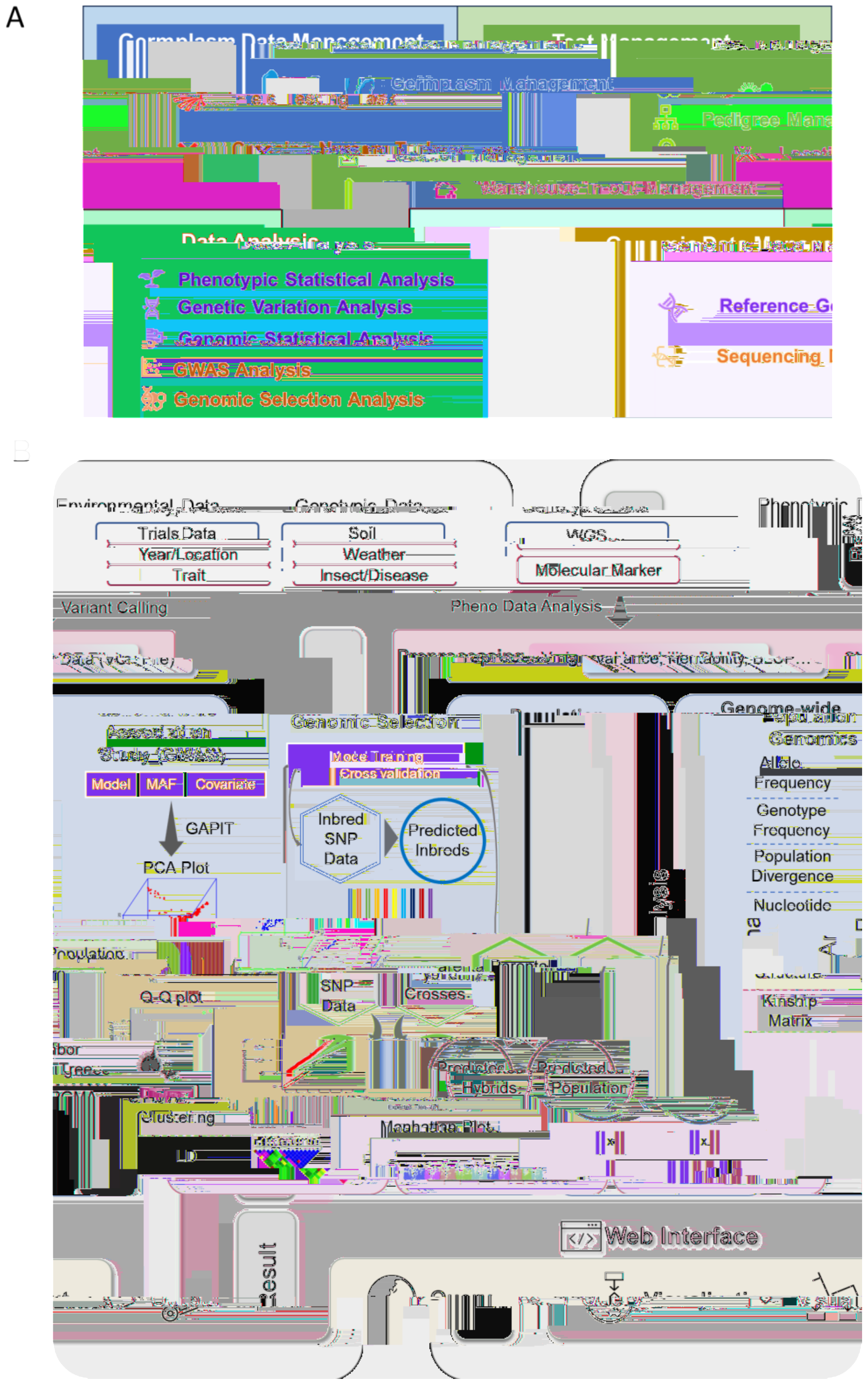
Genomic statistical analysis module

F

GWAS analysis module

p

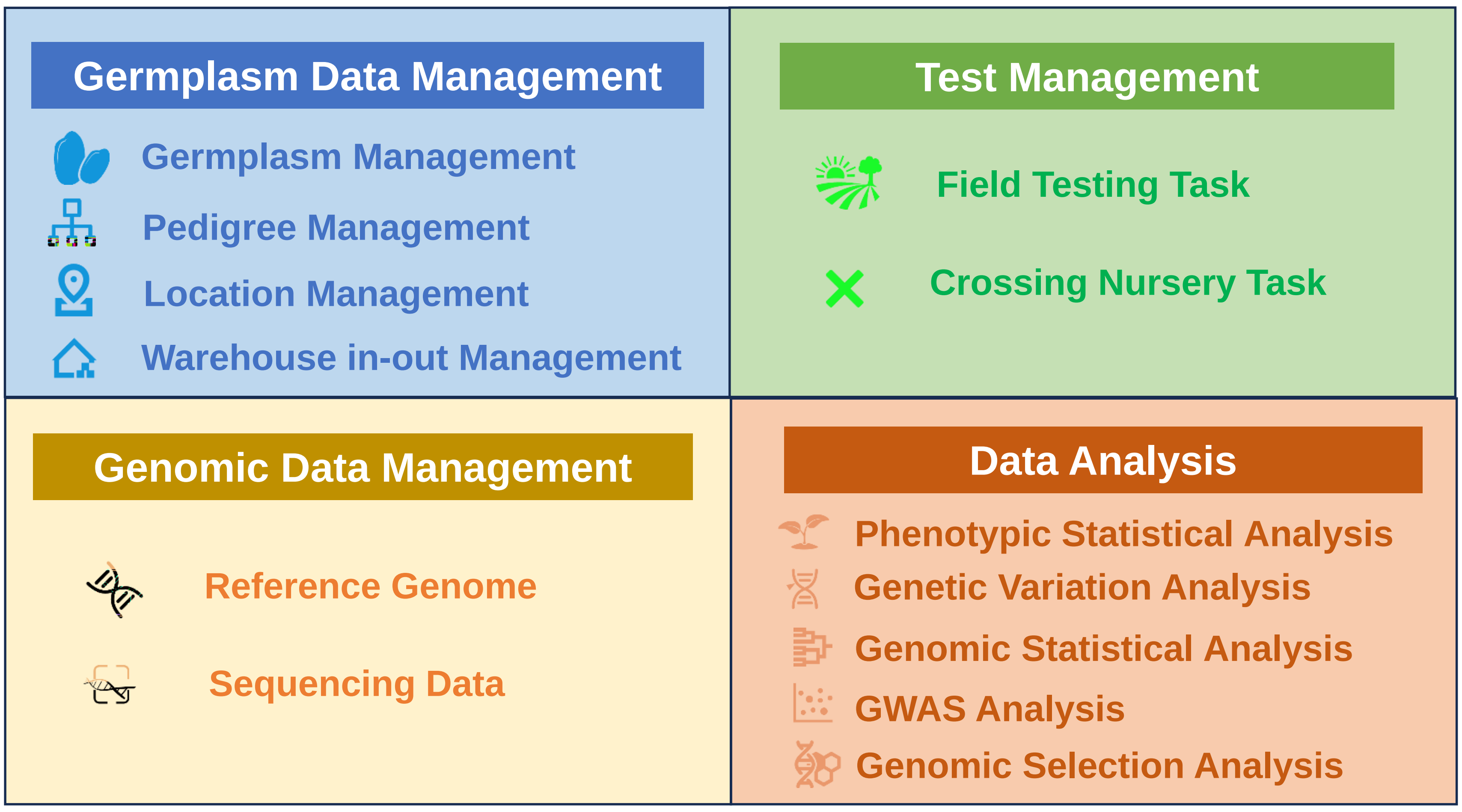
Genomic selection analysis module


A
Germplasm Data Management
Test Management
Germplasm Management
Pedigree Management
Warehouse Trecut Management
Data Analysis
Phenotypic Statistical Analysis
Genetic Variation Analysis
Genomic Statistical Analysis
GWAS Analysis
Genomic Selection Analysis
Reference G
Sequencing
B
Environmental Data
Genotypic Data
Phenotypic
Trials Data
Year/Location
Trait
Soil
Weather
Insect/Disease
WGS
Molecular Marker
Variant Calling
Pheno Data Analysis
Genomic Selection
Model Training
Cross validation
Inbred SNP Data
Predicted Inbreds
Model
MAF
Covariate
GAPIT
PCA Plot
Genome-wide
Genomics
Allele Frequency
Genotype Frequency
Population Divergence
Nucleotide
Kinship Matrix
Q-Q plot
SNP Data
Crosses
Predicted Hybrids
Predicted Population
Clustering
LD
Manhattan Plot
Web Interface
Result

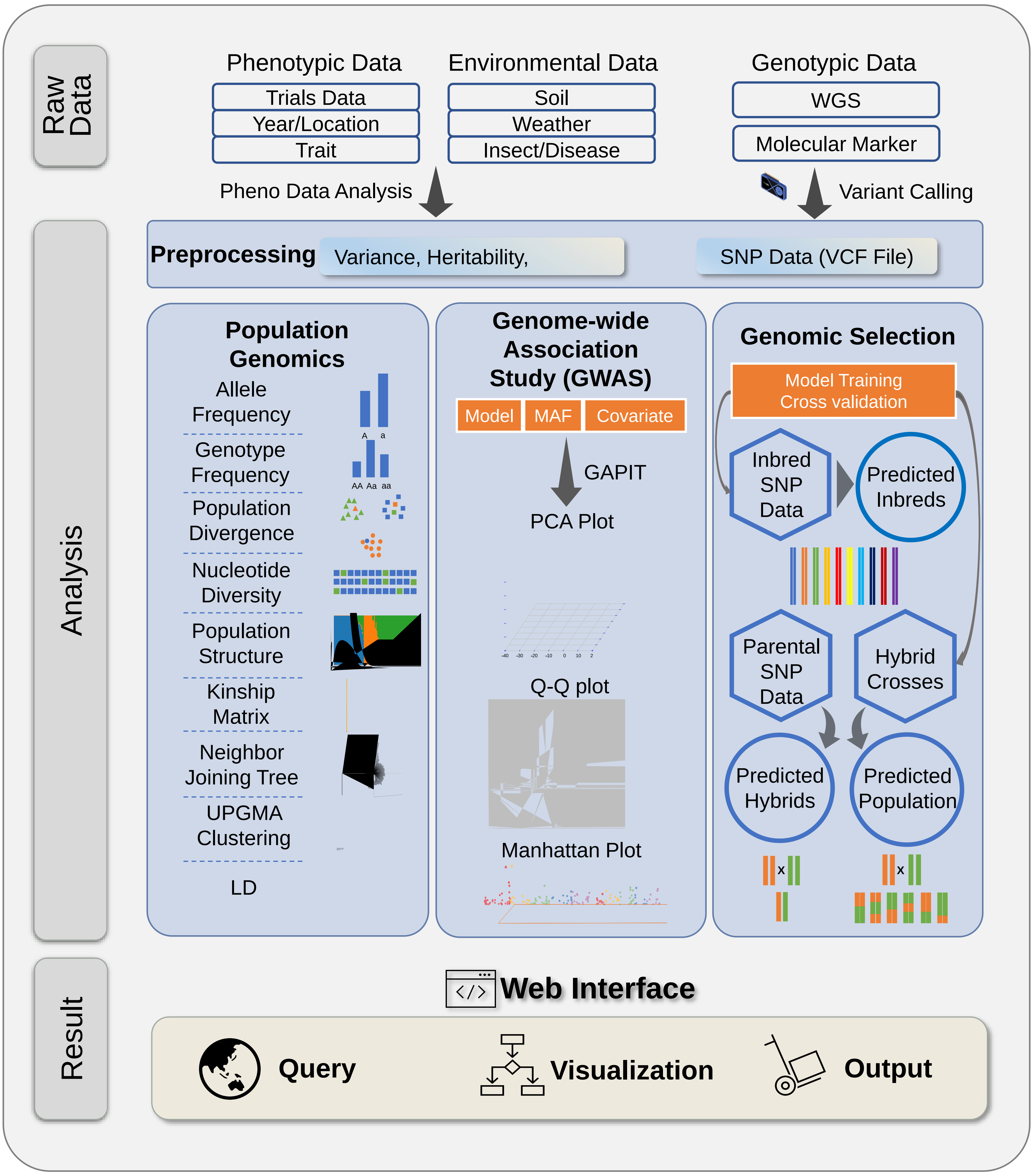
Funding

Acknowledgements

References


Germplasm Data Management
Germplasm Management
Pedigree Management
Location Management
Warehouse in-out Management
Test Management
Field Testing Task
Crossing Nursery Task
Genomic Data Management
Reference Genome
Sequencing Data
Data Analysis
Phenotypic Statistical Analysis
Genetic Variation Analysis
Genomic Statistical Analysis
GWAS Analysis
Genomic Selection Analysis

B


Raw Data
Phenotypic Data
Trials Data
Year/Location
Trait
Environmental Data
Soil
Weather
Insect/Disease
Genotypic Data
WGS
Molecular Marker
Pheno Data Analysis
Variant Calling
Analysis
Preprocessing
Variance, Heritability,
SNP Data (VCF File)
Population Genomics
Allele Frequency
Genotype Frequency
Population Divergence
Nucleotide Diversity
Population Structure
Kinship Matrix
Neighbor Joining Tree
UPGMA Clustering
LD
A a
AA Aa aa
Genome-wide Association Study (GWAS)
Model
MAF
Covariate
GAPIT
PCA Plot
Q-Q plot
Manhattan Plot
Genomic Selection
Model Training
Cross validation
Inbred SNP Data
Predicted Inbreds
Parental SNP Data
Hybrid Crosses
Predicted Hybrids
Predicted Population
x
x
Result
Web Interface
Query
Visualization
Output