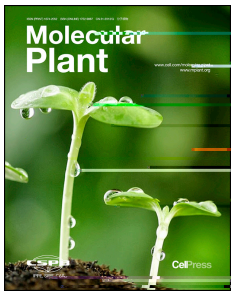
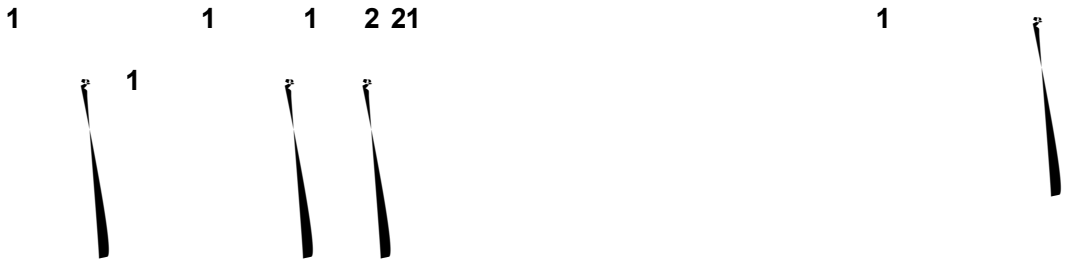


MOLECULAR PLANT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Location module

Crossing nursery

Genetic variation analysis module

Genomic statistical analysis module

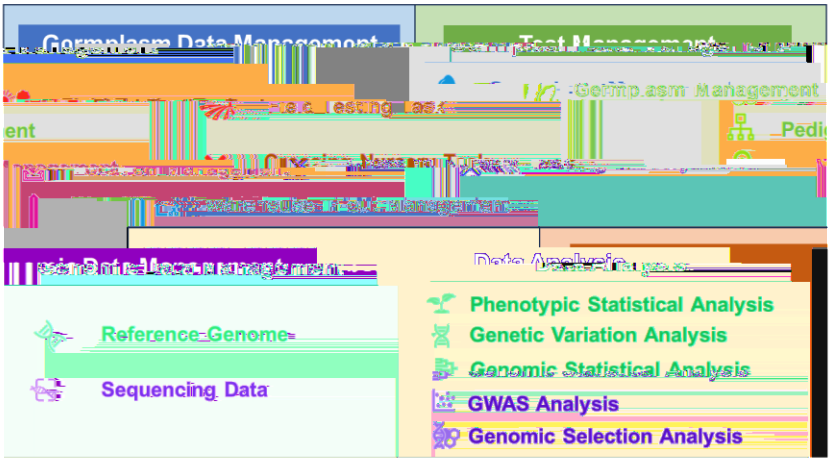
F

GWAS analysis module

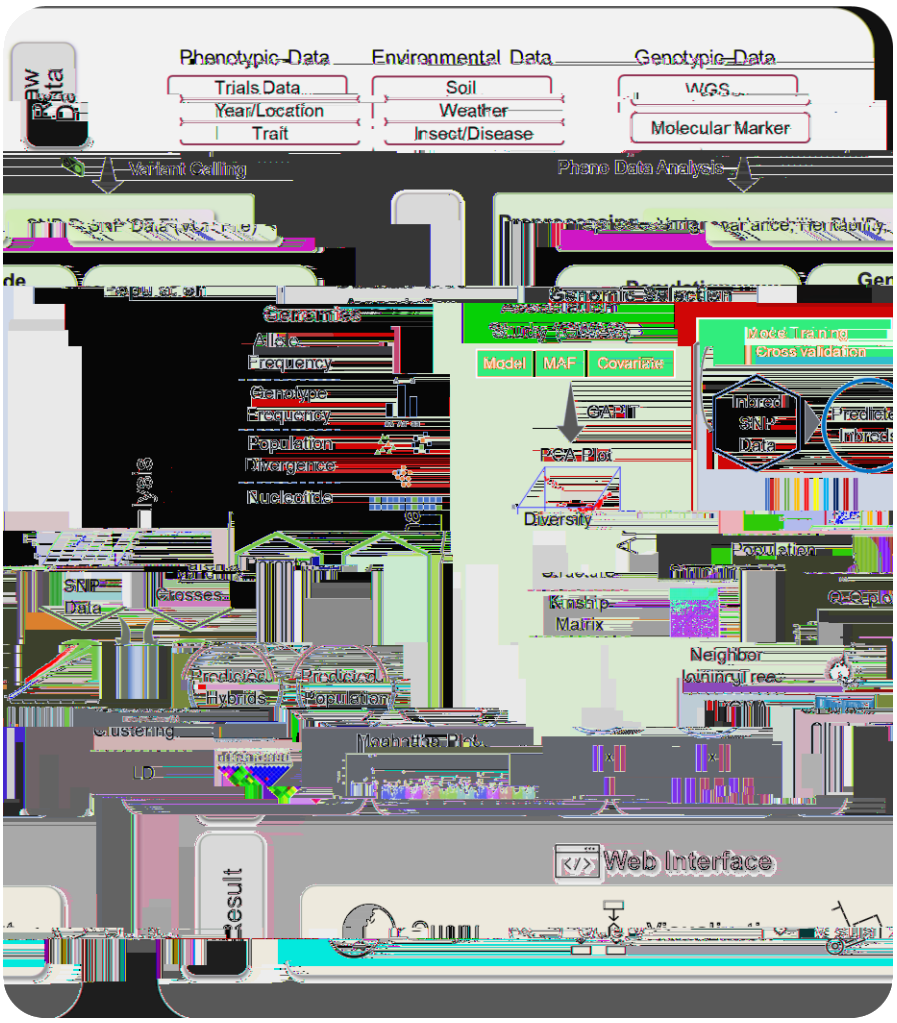
p

Genomic selection analysis module

A


Reference Genome
Sequencing Data
Phenotypic Statistical Analysis
Genetic Variation Analysis
Genomic Statistical Analysis
GWAS Analysis
Genomic Selection Analysis

B


Phenotypic Data
Environmental Data
Genotypic Data
Trials Data
Year/Location
Trait
Soil
Weather
Insect/Disease
WGS
Molecular Marker
Variant Calling
Phene Data Analysis
Genomic Selection
Model Training
Cross Validation
Model
MAF
Covariate
GAPIT
PCA Plot
Diversity
Kinship Matrix
Neighbor Joining Tree
Manhattan Plot
Web Interface
Result

Funding

2

Acknowledgements

References

1 1 1

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Germplasm Data Management

- Germplasm Management
- Pedigree Management
- Location Management
- Warehouse in-out Management

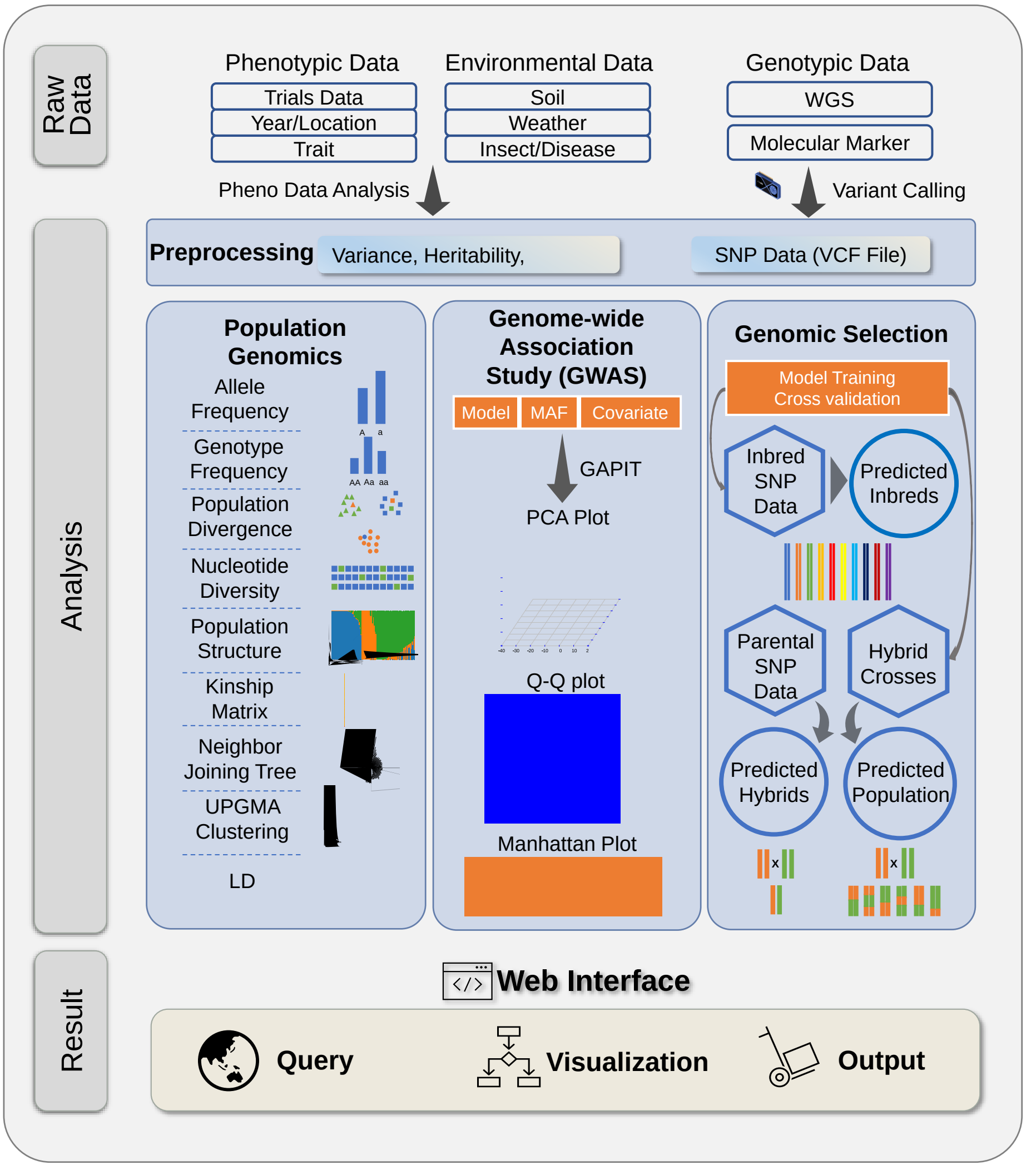
Test Management

- 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

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