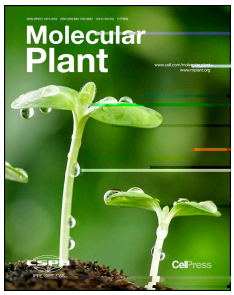
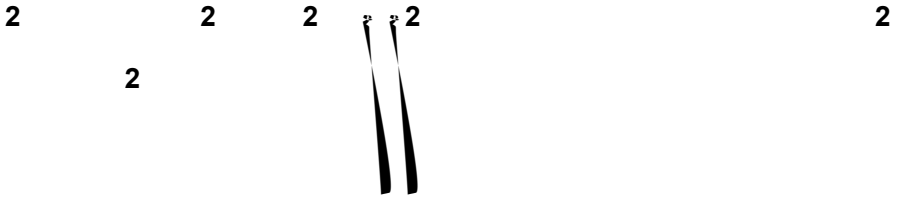


MOLECULAR PLANT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Location module

Crossing nursery

Genetic variation analysis module

Genomic statistical analysis module

F

GWAS analysis module

p

Genomic selection analysis module

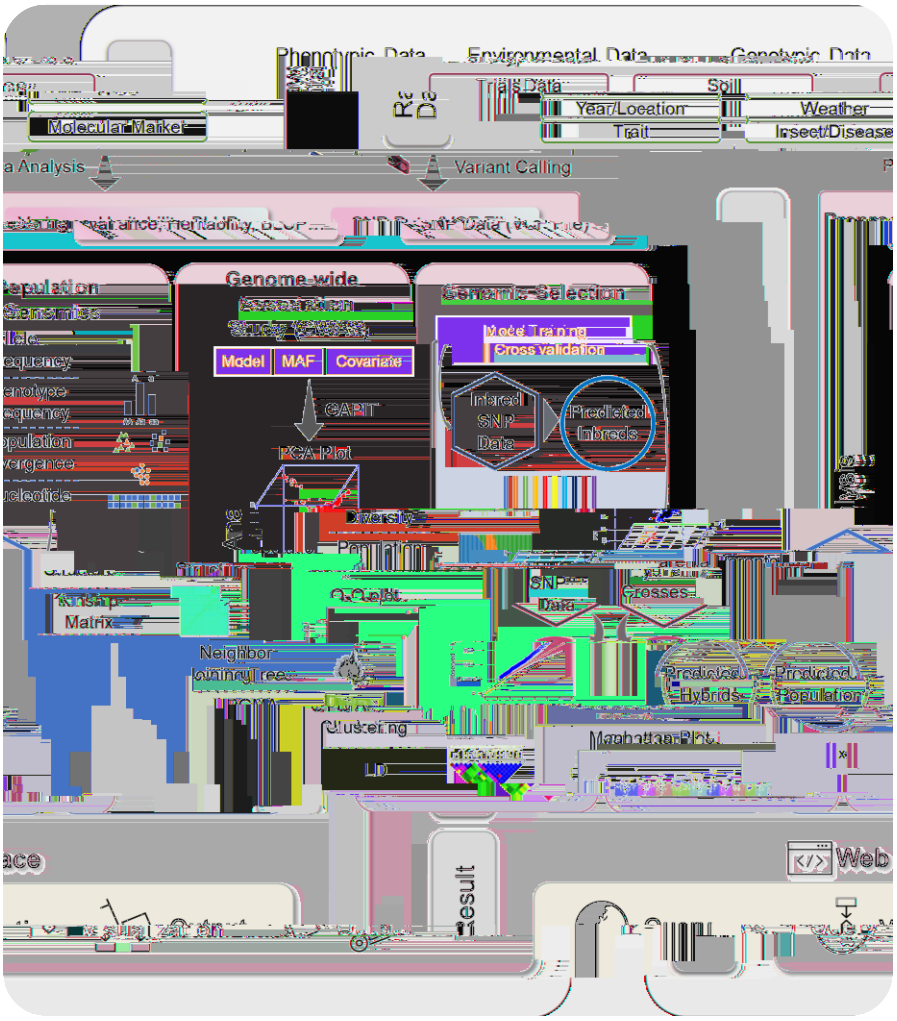
F U R V V H UC 0 G D G

P R G X O H G00 Y D U3 p 0 7 0

A

Germplasm Data Management
Test Management
Germplasm Management
Pedigree Mana
Reference Genome
Sequencing Data
Phenotypic Statistical Ana
Genetic Variation Analysis
GWAS Analysis
Genomic Selection Analysi

B


Phenotypic Data
Environmental Data
Genotypic Data
Trials Data
Soil
Year/Location
Weather
Trait
Molecular Marker
Variant Calling
Genome-wide
Genomic Selection
Model Training
Cross validation
Model
MAF
Covariate
GAPIT
Inbred SNP Data
Predicted Inbreds
SNP Data
Crosses
Predicted Hybrids
Predicted Population
Neighbor Joining Tree
Clustering
Manhattan Plot
Web
Result

Funding

Acknowledgements

References

2 1 2 2

2 2

2 2 2 2 2

Germplasm Data Management

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

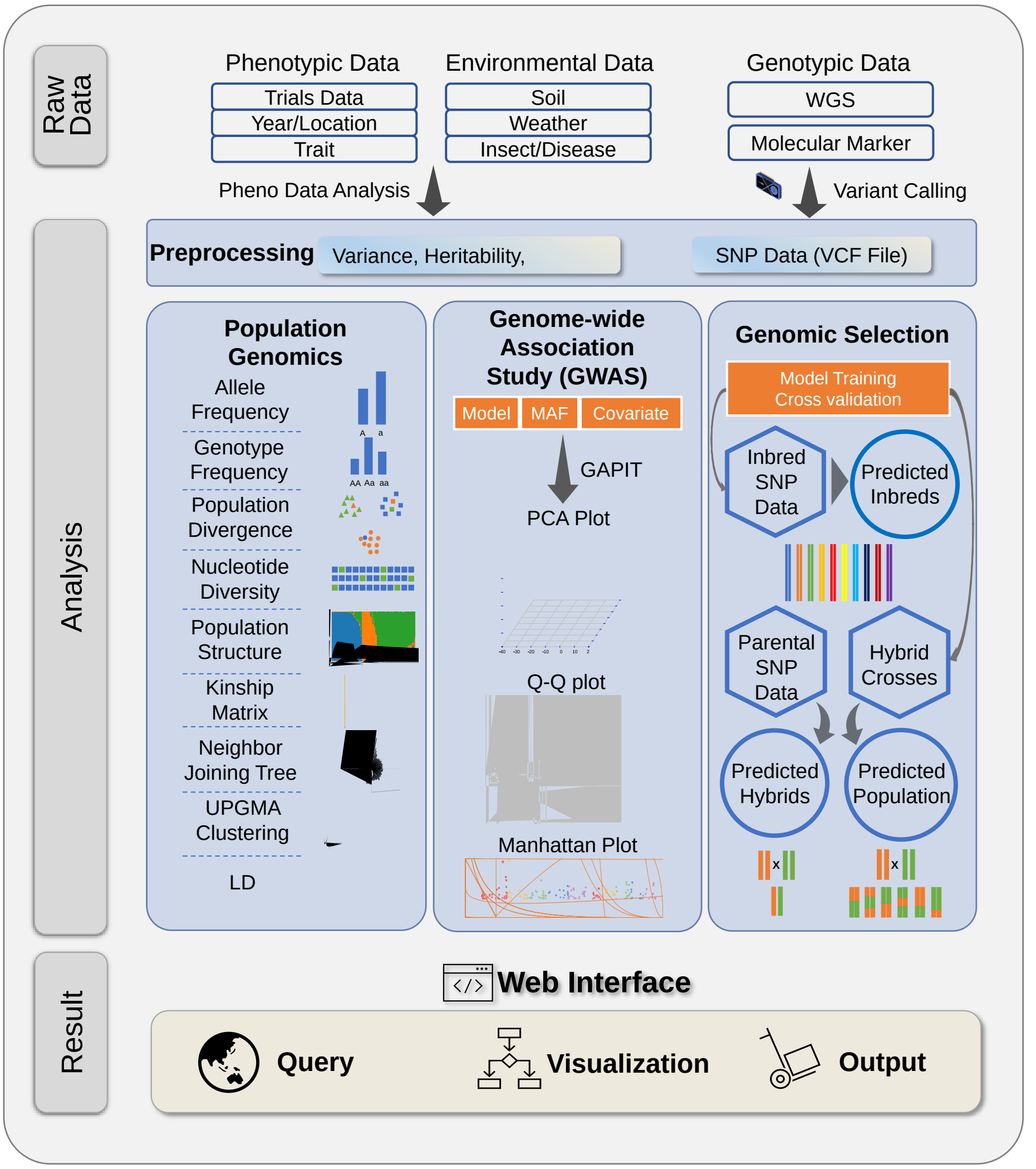
Test Management

- 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