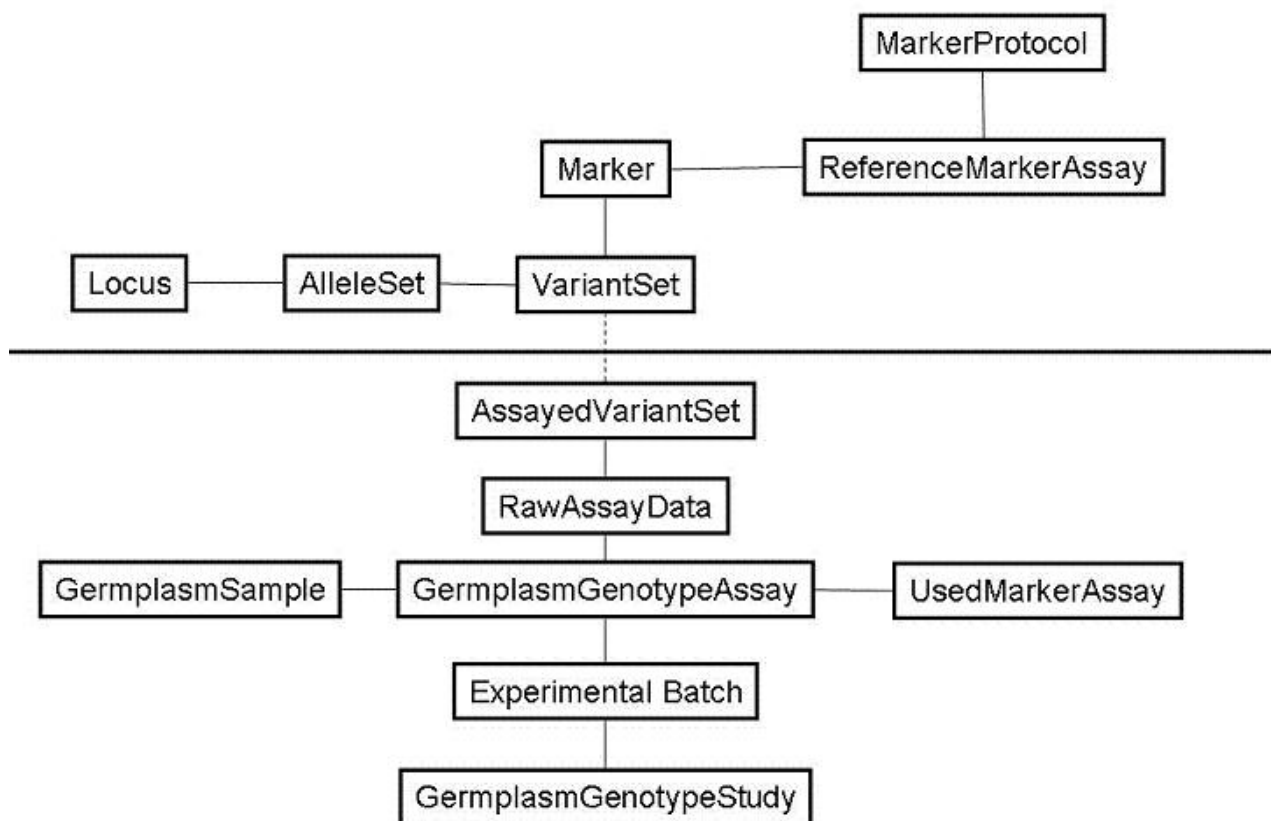


# Pretoria genotype

## Genotype Domain Model – 2006 Pretoria Workshop Result

### Graphical Representation



### Model description

#### MarkerProtocol

The experimental conditions can apply to a set of markers. E.g. PCR conditions, Gel type, Sequencer. Does not include person, date.

Note: for AFLP marker types the primer pair is part of the MarkerProtocol.

#### ReferenceMarkerAssay

MarkerProtocol applied to a specific Marker (specified in Marker)

Marker

A landmark used in genotyping.

VariantSet

Set of states in which a Marker is known to exist.

AlleleSet

Co-segregating alleles from a VariantSet

Locus

Genomic position of an AlleleSet

GermplasmSample

Biological sample to be assayed. Could be entire plant, plant part, DNA sample.

Used MarkerAssay

Specific MarkerAssay (from the ReferenceMarkerAssay) that is applied in the GermplasmGenotypeAssay.

GermplasmGenotypeAssay

Observation unit in a GermplasmGenotypeStudy.

Experimental Batch

GermplasmGenotypeAssays that are performed together, e.g. gel. Can be nested. Captures different levels of experimental errors.

GermplasmGenotypeStudy

Aggregation of Experimental Batches according to a scientific purpose.

RawAssayData

Machine or human output. With evidence indication. Can be on different levels, e.g. image, trace files, calls

AssayedVariantSet

Validated/curated data that will be used for further analysis. May be referenced to VariantSet.