

## **Pretoria AFLP case study**

AFLP characterization of CGN lettuce collection in the framework of a large EU project.

### **Marker**

a specific location on the gel given a specific AFLP primer combination (a band that is either present or absent)

### **VariantSet**

possible states of the marker – usually present or absent, but could also be a quantitative score

### **MarkerProtocol**

the published protocol for doing an AFLP analysis (Vos et al.) with some local adjustments

the experimental conditions and equipment used (ABI 371 sequencer, type of gel, etc)

the method of scoring the gel (visual inspection, reference positions)

### **ReferenceMarkerAssay**

combination of Marker and MarkerProtocol (in this case no additional information)

### **UsedMarkerAssay**

ReferenceMarkerAssay that was used

### **GermplasmSample**

the DNA sample that was used (extracted from a specific plant of a specific CGN accession using a specific DNA extraction protocol, etc.)

### **GermplasmGenotypeStudy**

info about the EU project (number, objective, approach, etc)

### **ExperimentalBatch**

the composition of the 96 samples on the gel, including info about the standards etc. possibly nested with info about all gels, etc.

gel ID (linked to picture of the gel)

name of experimenter, identification of the lab, date of experiment

### **GermplasmGenotypeAssay**

specific location of a specific marker on a specific lane on a specific gel

### **RawAssayData**

call of the band/genotype combination (present or absent / quantitative)

### **AssayedVariantSet**

the call of the band/genotype combination after validation

possibly info about the reliability of this call