



# Statistical support for the design and data analysis of GCP projects

Marcos Malosetti, Joost van Heerwaarden, Hans Jansen, and Fred van Eeuwijk

## Objective

This project aims to provide statistical support to GCP scientists on issues that ranges from experimental design to different types of data analyses (field and lab data analysis, diversity analysis, QTL mapping, association mapping). The three major activities of the project are:

- Delivery of training courses
- Development of training material
- One-to-one consultancy with GCP researchers



SECOND GENOTYPING SUPPORT SERVICES WORKSHOP  
(CIAT, January 26-31, 2009)  
Participants: Joseph Njau, Elizabeth Peltier, Rosendo Ochoa, Elizabeth Muehlen, Daniel Sanchez, Charles Longhini, Emmanuel Okon, Humberto Gonzalez, Fred Van Eeuwijk, Miguel Dela, Yvelin Van Dermeir, Joost Van Heerwaarden, Sander Schaberg, Dan Gentry, Gaud Harari, Yohannes Jansen

Second Genotyping Support Services workshop, Cali Colombia, 26-30 January 2009

## Training courses

In January 2009 a workshop was held at CIAT headquarters in Cali, Colombia, organized to support beneficiaries of the Genotyping Support Service (GSS). In June a second workshop was organized by SP5 to provide statistical support to researchers working within the framework of the project *Improving tropical legume productivity for marginal environments in Africa* that took place at the IAMZ (Mediterranean Agronomic Institute of Zaragoza) in Spain.

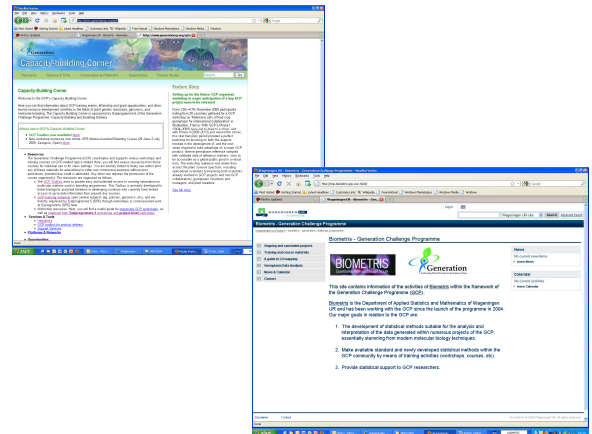


SP5 Marker-Assisted Breeding Course, (29 June-3 July 2009, Zaragoza, Spain)

## Training material

As a result of the two workshops, an updated set of training material has been compiled, including aspects on data quality control, experimental design, genetic diversity analysis, molecular map construction, theory on QTL mapping either using biparental crosses (conventional QTL mapping), or diverse populations (association mapping).

The material is accessible via the Capacity building corner (<http://www.generationcp.org/sp5/>) and also from the Biometris website (<http://tmp.biometris-gcp.wur.nl/UK/>).



## One-to-one consultancy

Do you have questions about...

- molecular map construction
- field experimental design
- genetic diversity analysis
- population structure / genetic relatedness
- QTL mapping and LD mapping design
- QTL and LD mapping analysis
- Other statistical issues...



Hans Jansen  
johannes.jansen@wur.nl



Marcos Malosetti  
marcos.malosetti@wur.nl

Send an email to us...