

## Applying Quantitative Statistics to Crop Improvement in Sub-Saharan Africa

### Workshop held in Worcester, South Africa, 3-5<sup>th</sup> March 2014

As part of the human capacity development program within the SCPRID project “Implementing effective marker technologies into disease resistance wheat breeding programmes within Africa” a quantitative genetics workshop was held in Worcester, South Africa from the 3-5<sup>th</sup> March 2014.

Sixteen crop breeders and researchers from South Africa and Kenya attended the workshop. The workshop was delivered by Dr Ian MacKay from NIAB, UK and organised by Dr Renée Prins and her team from CenGen, South Africa.



The program for the three day workshop provided an introduction to a number of statistical genetic procedures currently being used for crop breeding and improvement. These included genetic mapping and QTL analyses, genetic association analyses and genomic selection.

The workshop also provided an opportunity for the participants to network, strengthening links between the UK, South African and Kenyan partners.

### Workshop attendees hard at work



#### Acknowledgement:

This work was funded by the Biotechnology and Biological Sciences Research Council, the Department for International Development and (through a grant to BBSRC) the Bill & Melinda Gates Foundation, under the Sustainable Crop Production Research for International Development program, a joint initiative with the Department of Biotechnology of the Government of India's Ministry of Science and Technology.

**Workshop attendees:** Top row, left to right: Willem Botes (SU\*), Stephan de Groot (Sensako), Hester van Schalkwyk (UFS\*\* & CenGen). Middle row: Scott Sydenham (ARC-SGI), Gloudi Agenbag (CenGen), Aletta van der Merwe (SU), Tegwe Soko (UFS & Seedco), Godwin Macharia (KARI), Peter Njau (KARI). Bottom row: Elizma Joubert (PANNAR), Renée Prins (CenGen & UFS), Elsabet Wessels (CenGen), Ian Mackay (NIAB), Corneli Smit (CenGen), Ngina Waweru (KARI), Lesley Boyd (NIAB). \*SU: Stellenbosch University, SA, \*\*UFS: University of the Free State, SA.