

Report on Second CoP workshop (8-18, Uganda)

As part of the activities of the GCP commissioned CoP project, I have organized a workshop to train breeders and biotechnologists from four NARS (Table 1). Resource persons were from IITA, GCP and ARI-USA. Whereas the focus of the 1st workshop was conventional breeding, techniques of field experiment, and quantitative genetic analysis, the second workshop covered genetic and genomic analysis including development of linkage map, QTL analysis, association mapping, and bioinformatics tools for data mining and PCR primer designing. In view of the completion of cassava genome sequencing, such trainings are considered timely and vital for post-genomic research agenda. The leader of the cassava genome sequencing consortium, Dr. Steve Rounsley have talked about various cutting-edge genomic technologies such as the next-generation sequencing, state-of-the-art SNP discovery and genotyping technologies. Similarly, Dr. Carmen de Vicente, the leader of SP5-GCP has the current status and perspectives on molecular breeding with particular emphasis on GCP's effort to form a molecular breeding platform. The workshop included tutorial on various genetic software used for linkage map, QTL analysis, association mapping, and primer design.

Program for the 2nd cassava breeding CoP workshop, July 13-18, 2009 Uganda

Date	Time	Topic	Responsible
13	AM PM	- Introduction, Opening address and country report. - Next Generation Sequencing technology - Perspective in molecular breeding: GCP	All participants SR CDV
14	AM PM	Presentations and tutorial on linkage map development with MapMaker/QTL and Joinmap Field trip to Namulonge/Kawanda	EO assisted by RB and MG NaCCRI
15	All day	Presentations and tutorial on QTL mapping using Mapmaker/QTL,	EO assisted by RB and
16	All day	Marker technology; SNP genotyping technology Presentations and tutorial on Association mapping, Genome wide selection and practicals with TASSEL, Arlequin, etc.	MG and SR RB
17	all day	Bioinformatics (Databases, similarity search, Genome browsing, comparative analysis, primer design)	MG, JL, SR, DB
	Key	CDV = Carmen de Vicente; SR = Steve Rounsley, USA; EO = Emmanuel Okogbenin; RB = Ranjana Bhattacharjee; MG = Melaku Gedil; JL = Jim Lorenzen; DB = Dereje Beyene	

List of Participants in the 2nd cassava CoP workshop, July 13-17, Uganda

	Trainees	Country	Resource persons	Institution
1	Justine Najuma	Uganda	Dr. Melaku Gedil	IITA-Nigeria
2	Anthony Mukaya	Uganda	Dr. Ranjana Bhattacharjee	IITA-Nigeria
3	Teddy Amuge	Uganda	Dr. Steve Rounsley	Univ. Arizona
4	Williams Esuma	Uganda	Dr. Carmen de Vicente	GCP
5	Wagaba Henry	Uganda	Dr. Emmanuel Okogbenin	GCP
6	Alex Abaca	Uganda	Dr. Jim Lorenzen	IITA-Uganda
7	Robert Kawuki	Uganda	Invited Guests	
8	Dereje Beyene		Dr. Kenneth Nwosu, director	NRCRI-Nigeria
9	Dr. Geoffrey Mkamilo	Tanzania	Dr. James Ogwang-director	NARO-Uganda
10	Bernadetha Kimata	Tanzania	Dr. Yona Baguma	NARO-Uganda
11	Caroline Sichalwe	Tanzania	Local Organizing Committee	
12	Dr. Joseph Onyeka	Nigeria	Suzan Kateba	IITA-Uganda
13	Princess Onyegbule	Nigeria	Millie	IITA-Uganda
14	Favour Ewa	Nigeria	Barunji	IITA-Uganda
15	Elizabeth Parkes	Ghana		
16	Bright Peprah	Ghana		

