

Summary of program for Cassava Breeding Community of Practice (CoP) first workshop, IITA, Ibadan Nigeria (Oct 20-24, 2008)

	Monday, 20	Tuesday, 21	Wednesday, 22	Thursday, 23	Friday, 24
8:30	Welcome address	CB-6	Field tour: IITA Cassava breeding program; crossing block; nursery; trials	Field trip: Farmers field/TBA	Molecular tools for breeders (Markers, QTL, MAS, etc.)
9:30	Introduction Country research highlight CB-1	QG- Experimental design/quantitative genetics			MB-1 (Markers) MB-2 (Diversity)
10:30	Tea break	Tea	break		Tea break
11:30	Conventional breeding; CB-2 CB-3	Experimental design/quantitative genetics (continued)	Post harvest processing/Yam barn		MB-3 (QTL)
12:30	Lunch break	Lunch break	Lunch break	Lunch break	Lunch break
13:30	Conventional breeding contd. CB-4 CB-5	Statistical analysis: tutorial SAS	Statistical analysis: tutorial SAS (continued)	Starch processing plant/TBA	MB-4 (phenotyping) MB-5 (MAS/MAB)
14:30					
15:30					
16:30					
17:30					MB-6 (fostering partnership in the community)
	CB: Conventional Breeding	QG: Quantitative genetics			MB-7 (Discussion on future workshop format and agenda) closing MB: Molecular Breeding

Detail program for Cassava Breeding Community of Practice (CoP) first workshop, IITA, Ibadan Nigeria (Oct 20-24) 2008

Day 1 – Conventional breeding

Time	Topic	Presenter
08:30	Welcome address	Asiedu
08:45	Introduction and country research highlights-Ghana, Nigeria, Uganda	Participants
10:30	Tea/Coffee break	
11:00	IITA's breeding scheme; current challenges, fast-track selection methods, farmer participatory breeding	Dixon
13:00	Lunch break	
14:00	Breeding for nutritional quality traits	Ssemakula
15:00	Breeding for biotic and abiotic stress (e.g. disease, drought, PPD)	Oyenka/Egesi
15:30	Tea/Coffee break	
16:00	Hybridization: design; techniques; efficiency; types (single, double, poly cross)	Ilona
16:40	Verification of hybridization (morphological, DNA markers)	Gedil
19:00	Cocktail	

Day 2 – Quantitative Genetics

08:30	Introduction and country research highlights-Tanzania, Sierra Leone	Participants
09:00	Multi-environment trials; GxE interaction; balancing cost efficiencies of multi-site and on-farm trials	Akoroda
10:15	Tea/Coffee break	
10:30	Basic statistical concepts and statistical tools using SAS	Sam
	Genotype and environment characterization for on-farm selection	Okechukwu
	Biplots	Okechukwu
	Ranking cultivars based on performance in an environment	Okechukwu
	Environment grouping	Okechukwu
	Character trait relationships and path analyses	Okechukwu
	Genotype by trait analysis	Okechukwu
	Hands-on	Okechukwu

Day 3 – IITA Ibadan Field tour/Yam Barn

08:30	Field tour: IITA Cassava breeding program; crossing block; nursery; trials	Ilona
10:30	Post harvest processing/Yam barn	Ilona
13:00	Lunch break	
14:30	Additive Main Effects and multiplicative interaction using MATMODEL and AMMIWINS	Okechukwu
	Hands-on	Okechukwu

Day 4 – Field Trip/Farmers field/cassava processing plant

08:30	Field trip Ekha Agro farms in Eruwa	Ilona/Okechukwu
	Lunch	
	Visit Medium scale Starch plant, Abeokuta	Ilona/Okechukwu

Day 5 – Marker-assisted Breeding

08:30	Ideal markers, genotyping platforms, and applications (linkage map, diversity analysis, gene tagging, fingerprinting)	Gedil
09:30	Molecular characterization and utilization of germplasm	Bhattacharjee
10:30	Tea/Coffee break	
11:00	QTL analysis; priority traits; success stories in other crops; challenges and solutions	Sartie
12:30	Lunch break	
14:00	Considerations for generating quality phenotypic data and defining accurate QxE interactions.	Panel discussion
14:30	The use of MAS/MAB for backcrossing and gene pyramiding	Egesi
16:00	Discussion: Approach for fostering a functional community of breeders; exchange of ideas, germplasm, technologies.	Participants
16:30	Discussion: future workshop format and agenda;	Participants
17:00	Closing	CoP PI