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 Brazilian Agricultural Research Corporation – Embrapa
 Ministry of Agriculture, Livestock and Food Supply
 Parque Estação Biológica W5 Norte final
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EXTRA PROGRAM

Additional optional cassava field trip:

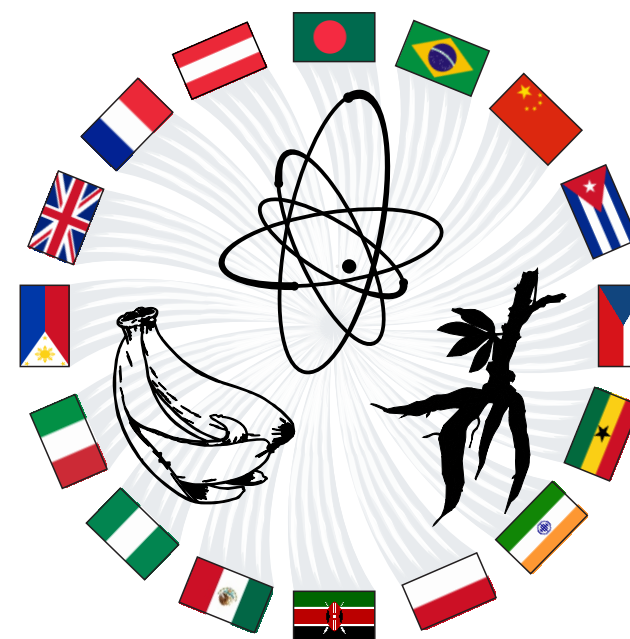
Suggested by **Luiz Carvalho**. If you are interested, please contact carvalho@cenargen.embrapa.br. The trip could be organized for Monday (November 15) after our official RCM. It is a one day drive nearby Brasilia to visit several wild *Manihot* spp in nature. Embrapa will provide transportation for the trip departure from the hotel.

Additional optional banana field trip:

Suggested by **Robert Miller**. If you are interested, please contact rmiller@pos.ucb.br. He informed that three people have already signed. In this trip you will visit Embrapa National Research Center for Banana and Cassava in Bahia state, which houses and important *Musa* breeding program. Transportation is by air and car. Embrapa will provide free transport to drive you from Salvador airport to Cruz das Almas, whilst airfares must be covered by each interested participant.

FINAL FAO/IAEA RCM MEETING

MOLECULAR TOOLS FOR QUALITY IMPROVEMENT IN VEGETATIVELY PROPAGATED CROPS INCLUDING BANANA AND CASSAVA



Sponsor:

Hosts:

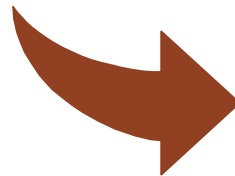
Colaborator:



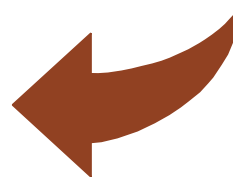
08/11/2010 TO 12/11/2010
Embrapa Genetic Resources and Biotechnology
Auditorium "Assis Roberto De Bem"

Brasília, DF
 2010

November 8	
08:30 to 09:10	Opening Ceremony (Embrapa Genetic Resources and Biotechnology General Director - Dr. Mauro Carneiro; Comissão Nacional de Energia Nuclear (CNEN) General Coordinator of International affairs - Maria Cristina Lourenço; Universidade Católica de Brasília , Genomic Sciences and Biotechnology Post Graduate Program Director - Dr. Ruy Caldas)
09:10 to 09:25	Remarks by Till, B., Scientific Secretary of the meeting
09:25 to 09:45	Introduction of participants
09:45 to 10:15	Coffee break 1
SESSION I	
Chairperson: Roux, N. (Bioversity International)	
10:15 to 10:50	Mamum A.N.K. (BGD). Improvement of Banana (<i>Musa</i> spp.) through <i>in vitro</i> mutagenesis and Doubled Haploids.
10:55 to 11:30	Miller, Robert (BRA). Gene discovery and functional marker development in <i>Musa acuminata</i> Calcutta 4 vs. <i>Mycosphaerella fijiensis</i> plant pathogen intereaction.
11:35 to 12:10	Dolezel, Jaroslav (CZR). Molecular cytogenetic mapping as a tool to characterize genetic diversity and induced mutants in banana.
12:15 to 13:15	Lunch
SESSION II	
Chairperson: Dolezel, J. (CZR)	
13:15 to 13:50	Nair, Ashalatha (IND). Production of haploid plants from diploid banana cultivars of South India through another culture and exploring the possibilities of a dihaploid with <i>Musa acuminata</i> Calcutta 4.
13:55 to 14:30	Roux, Nicolas (Bioversity International). Conserving, understanding and improving <i>Musa</i> genetics resources.
14:35 to 15:10	James, Andrew (MEX). Development of a set of conserved orthologous sequences (COS) markers for starch biosynthesis and drought tolerance for <i>Musa</i> germplasm.
15:15 to 15:50	Sales, Emma (PHI). Molecular marker techniques for the selection of mutant bananas with improved post harvest qualities.
15:50 to 16:20	Coffee break 2
16:20 to 16:55	Schwarzacher, Trude (UK). Application of PCR and molecular cytogenetic tools to support breeding and exploitation of biodiversity in vegetatively propagated crops.
16:55 to 17:30	Discussion



November 9	
SESSION III	
Chairperson: Parks, E. (GHA)	
09:00 to 09:35	Carvalho, Luiz (BRA). Gene expression analysis in spontaneous mutation within sucrose-starch and carotenoids synthesis pathway in storage root of cassava (<i>Manihot esculenta</i> Crantz).
09:40 to 10:15	LIU Zaochang (CPR). Induction of mutants with useful traits in cassava (<i>Manihot esculenta</i> Crantz) via tissue culture and characterization of induced mutants.
15:15 to 10:25	Short discussion
10:25 to 10:55	Coffee break 3
SESSION IV	
Chairperson: Carvalho, L. (BRA)	
11:00 to 11:35	Yaa Parkes, Elizabeth (GHA). Adding value to cassava: Using induced mutation breeding and molecular assisted introgression of genes for delayed post harvest physiological deterioration (PPD) high protein, high quality beta carotene into Ghanaian gene pools.
11:40 to 12:35	Sudarmonowati, Enny (INS). Alerting starch composition in cassava (<i>Manihot esculenta</i> Crantz) trough selection and irradiation.
12:35 to 13:35	Lunch
SESSION V	
Chairperson: Sudarmonowati, E. (INS)	
13:35 to 14:10	Njau, Peter (KEN). Development of superior well-adapted cassava varieties with high root quality traits through induced mutation and marker aided breeding.
14:15 to 14:50	Okogbenin, Emmanuel (NIR). Development of cassava varieties with high value root quality traits through induced mutations and marker aided breeding.
14:55 to 15:30	Beeching, John (UK). Identifying, designing and testing molecular genetic tools with the potential to modulate post - harvest physiological deterioration in cassava.
15:30 to 16:00	Coffee break 4
SESSION VI	
Chairperson: Till, B. (Joint FAO/IAEA)	
16:00 to 16:35	Chikelu, Mba (FAO/Italy). Molecular tools for quality improvement in vegetatively propagated crops including banana and cassava.
16:40 to 17:30	Discussions



November 10	
SESSION VII	
Chairperson: Till, B. (Joint FAO/IAEA)	
08:30 to 12:30	Organization into working groups
12:30 to 13:30	Lunch
13:30 to 17:00	Working groups (preparation of Conclusions and Recommendations)

November 11	
SESSION VII	
Chairperson: Till, B. (Joint FAO/IAEA)	
08:30 to 12:30	Working groups (preparation of Conclusions and Recommendations, manuscript drafting).
12:30 to 13:30	Lunch
13:30 to 15:00	Working groups (wrap up, preparation of list of tasks to be completed)
15:00 to 17:00	Presentation and discussion of drafted summaries, consensus on publications, and timelines for final documents.

November 12	
SESSION VII	
Chairperson: Till, B. (Joint FAO/IAEA)	
08:30 to 12:30	Cassava & Banana Field Trip: Embrapa Cerrados/CPAC
12:30 to 13:30	Lunch (CPAC)
13:30 to 15:00	Visit to UCB - NGS Sequencing platform
15:00 to 17:00	Visit to Embrapa Genetic Resources & Biotechnology