

International Workshop

Surveillance and control of cassava diseases in Africa

Plant Protection Platform (3P Center)
St Pierre - La Réunion

June 10 – 13, 2014

Under the leadership of the Global Cassava Partnership for the 21st Century - GCP21, CIRAD and IRD, members of Fondation Agropolis, and members of the CRP-RTB, organize an international workshop on cassava at the Plant Protection Platform (3P Center) in St-Pierre (La Réunion, France) from June 10 to 13, 2014.

This workshop will gather more than 40 experts from 13 African countries, as well as representatives from the most important centers, networks and foundations involved in food security in Africa. The main objectives are to constitute a PanAfrican Surveillance Cassava Network for viral and bacterial diseases, and to integrate the active participation of the 3P Center as a technological platform dedicated to control these diseases.



Cassava, a crop most important for global food security

Cassava is the fourth most important source of calories in the developing world and feed an estimated **700 millions people** daily. It is naturally resistant to drought, and it withstands high CO₂ concentrations and high temperatures, making cassava **THE crop adapted to face global climatic change**.

A workshop part of a Global Alliance to fight cassava diseases

In order to respond to the growing threat of viral and bacterial cassava diseases, GCP21 organized in Bellagio, Italy, in May 2013, an international conference on this topic and a RoadMap, known as the **Bellagio RoadMap¹** was recently published. This document is aligning the milestones of a global plan to better control cassava viral diseases and details immediate, medium and long term actions. The International Workshop in La Réunion, will work on the first milestones of this roadmap, focusing on surveillance, diagnostic and control of these diseases in Africa.

Expertise and contribution of the French Team to control cassava diseases in Africa.

A group of **French scientists, belonging to CIRAD and IRD**, expert in bacteria, viruses and their whitefly vectors, and members of Fondation Agropolis, has decided to form a French Team to respond to the Global Alliance formed by GCP21 in Bellagio.

The CIRAD team is located at the **Plant Protection Platform (3P Center)** in Saint-Pierre, La Réunion, France. This center has all the facilities, equipment, biosafety environment and scientific expertise to perform detailed comparative studies of cassava pests and diseases, has experience in cleaning and propagating plant material, and is managing several international collections. Because of the isolation of the island of La Réunion, in the Indian Ocean, but close enough to the african continent, is offering to the global alliance, a unique opportunity to develop an **international cassava transit site** to propagate and exchange certified pathogen-free cassava cultivars between continents.

The IRD team is base in Montpellier, France, as well as in Burkina Faso, where it is developing a **regional laboratory (LMI)** for the diagnostic of crop diseases.

Deeply involved in training of young african scientists, the French scientists restate their willingness to participate and contribute to the **building of the next generation of cassava scientists** on cassava diseases. CIRAD and IRD take this opportunity to confirm their dedication and participation to the CRPs of the CGIAR.

¹ A global alliance declaring war on cassava viruses in Africa, Food Security, 2014

The organizers of the international workshop

- The **Global Cassava Partnership for the 21st century (GCP21)** : non-for-profit independent organization collaborating with several CRPs, and particularly the one dedicated to Roots, Tubers and Bananas (RTB), as well as with all the national and international research and development organizations working on cassava in the world.
- The **Agricultural Research Centre for International Development (CIRAD)** and the **Research Development Institute (IRD)**, members of the **Agropolis Foundation** (Montpellier).

The major objectives of the international workshop

- Make known to **the Global Alliance**, the scientific and technical expertise of the CIRAD and IRD team in cassava pests and diseases to control them more efficiently.
- Make known to the cassava community the potential of **the Plant Protection Platform (3P Center)** in La Reunion, offering a real opportunity to use an existing, well equipped and performing platform, to the service and benefit of the international community to fight cassava diseases.

The specific objectives of the international workshop

- Establish a **panAfrican Surveillance Cassava Network** to limit and control the spread of cassava pests and diseases.
- Coordinate **diversity studies** on **bacteria, viruses and their insect vectors** in Africa.
- Establish at the Plant Protection Platform (3P Center) an **international cassava transit site** to exchange certified pathogen-free cassava material between continents.
- Coordinate and increase the **training of young cassava scientists**.

The Tentative Program

Tuesday June 10, 2014

- Official opening of the international workshop
- Presentation of experts
- Visit of the Plant Protection Platform (3P Center)

Wednesday June 11, 2014

- Visit of cassava plantations
- Visit of the experimental stations and genetic collections
- Presentations of experts (continued)

Thursday June 12, 2014

- Round Table on diagnostic of cassava bacteria, viruses and their vectors
- Round Table on the establishment of a panAfrican Surveillance Cassava Network
- Round Table on the establishment of an international cassava transit site at 3P Center
- Round Table on the building of the next generation of cassava scientists
- Summary and discussion of the Round Tables
- Conclusions and plan of actions

Friday June 13, 2014

- Visit of the volcano «Piton de la Fournaise »
- Visit of the national botanical conservatory park of Mascarin



The list of the participants:

Nom	Prénom	Institution	Pays
Winter	Stephan	Leibniz Institute DSMZ-German Collection of Microorganisms and Cell Cultures	Germany
Tiendrébéogo	Fidèle	Institut de l'Environnement et Recherches Agricoles (INERA)	Burkina Faso
Cuellar	Willmer	International Center for Tropical Agriculture (CIAT)	Colombia
Fauquet	Claude	International Center for Tropical Agriculture (CIAT) GCP21	Colombia
Nazaire	Kouassi	Centre National de Recherche Agronomique (CNRA)	Côte d'Ivoire
Diallo	Hortense	Université d'Abobo-Adjamé	Côte d'Ivoire
Kone	Daouda	Université Félix Houphouët-Boigny Abidjan (UFHB)	Côte d'Ivoire
Beach	Larry	Bill and Melinda Gates Foundation	USA
Verdier	Valerie	Institut de Recherche pour le Développement (IRD)	France
Koebnik	Ralf	Institut de Recherche pour le Développement (IRD)	France
Chabanet	Pascale	Institut de Recherche pour le Développement (IRD)	France Réunion
Vernier	Philippe	Centre de coopération internationale en recherche agronomique pour le développement (CIRAD)	France
Duval	Marie-France	Centre de coopération internationale en recherche agronomique pour le développement (CIRAD)	France
Mandret	Gilles	Centre de coopération internationale en recherche agronomique pour le développement (CIRAD)	France Réunion
Vernière	Christian	Centre de coopération internationale en recherche agronomique pour le développement (CIRAD)	France Réunion
Robène	Isabelle	Centre de coopération internationale en recherche agronomique pour le développement (CIRAD)	France Réunion
Dumont	Cynthia	Centre de coopération internationale en recherche agronomique pour le développement (CIRAD)	France Réunion
Vaslet	Séverine	Centre de coopération internationale en recherche agronomique pour le développement (CIRAD)	France Réunion
Delatte	Helene	Centre de coopération internationale en recherche agronomique pour le développement (CIRAD)	France Réunion
Brouchoud	Henri	Centre de coopération internationale en recherche agronomique pour le développement (CIRAD)	France Réunion
Roux-Cuvelier	Michel	Centre de coopération internationale en recherche agronomique pour le développement (CIRAD)	France Réunion
Teyssedre	David	Centre de coopération internationale en recherche agronomique pour le développement (CIRAD)	France Réunion
Dintinger	Jacques	Centre de coopération internationale en recherche agronomique pour le développement (CIRAD)	France Réunion
Lett	Jean-Michel	Centre de coopération internationale en recherche agronomique pour le développement (CIRAD)	France Réunion
Lefeuvre	Pierre	Centre de coopération internationale en recherche agronomique pour le développement (CIRAD)	France Réunion
Reynaud	Bernard	Centre de coopération internationale en recherche agronomique pour le développement (CIRAD)	France Réunion
Poussier	Stéphane	Université de La Réunion	France Réunion
Offei	Kouame	College of Agriculture and Consumer Sciences, University of Ghana	Ghana
Quain	Marian	CSIR – Crop Research Institute – Biotech Lab Kumasi	Ghana
Okogbenin	Emmanuel	African Agricultural Technology Foundation (AATF-Africa)	Kenya
Makila	Ethel	International Livestock Research Institute	Kenya
Djikeng	Appollinaire	Biosciences eastern and central Africa (BecA)	Kenya

Rakotoarisoa	Jacqueline	FOFIFA (Centre National de la recherche Appliquée au développement Rural)	Madagascar
Koita	Ousmane	Faculte des Sciences et Techniques, USTT	Mali
Zacarias	Anabela	Instituto Nacional de Investigacao Agronomica (INIA)	Mozambique
Kulakow	Peter	International Institute for Tropical Agriculture (IITA)	Nigeria
Kumar	Lava	International Institute for Tropical Agriculture (IITA)	Nigeria
Onyeka	Joseph	National Root Crops Research Institute (NRCRI)	Nigeria
Zinga	Innocent	Université de Bangui, Faculté des Sciences	République Centrafricaine
Gowda	Maruthi	NRI, Natural Resources Institute, University of Greenwich	United Kingdom
Sangare	Abourahmane	Conseil Ouest et Centre Africain pour la Recherche et le Développement Agricoles (CORAF/WE CARD)	Sénégal
Legg	James	International Institute for Tropical Agriculture (IITA)	Tanzania
Sseruwagi	Peter	Mikocheni Agricultural Research Institute (MARI)	Tanzania
Kpemoua	Kossi.E	Institut Togolais de Recherche Agronomique	Togo
Rwomushana	Ivan	Association for strengthening Agricultural Research in Eastern and Central Africa (ASARECA)	Uganda

