



Virtual Training Session Four

Biological control as a Key tool for IPM in citrus

CABI in collaboration with Fund De Citrus and University of Sao Palo is pleased to invite you to the Second Session of Four Sessions:

Tuesday 27th October, 2020
TIME: 9.00 am -12.15 pm Caribbean time
10.00 am – 13.15 pm Brasilia time



Introduction

This workshop was initially planned for CABI's Member countries in the Caribbean. However, with the occurrence of the Covid 19 pandemic it was necessary to host it virtually. It was then opened up to the wider Caribbean and the world as one of our contributions to the celebration of the International Year of Plant Health.

The citrus greening disease causes a reduction in yield as well as the quality of fruits produced, eventually the whole tree declines resulting in death. All citrus varieties are susceptible. The disease and its vector are now confirmed in all member countries of the Caribbean with the exception of Guyana. It has not been reported in the UK overseas territories of Anguilla, Bermuda, British Virgin Islands and Montserrat. However, due to poor biosecurity arrangements that are in place it is only a matter of time that it will affect all member states in the Caribbean.

Objectives

To build the capacity of member states to effectively manage the citrus greening disease and its insect vector the Asian citrus psyllid (*Diaphorina citri*) that is devastating citrus production where it is present in the Caribbean. While assisting MC that don't have the disease to prevent its entry while being prepared for any future introduction.

These virtual sessions will give participants the opportunity to share experiences in managing this disease in the Caribbean with renown experts from Brazil in dealing with this debilitating threat to the citrus industry. Citrus is important to the food and nutrition security in the Caribbean.

About the speakers:

Session Moderator: Ms. Deanne Ramroop

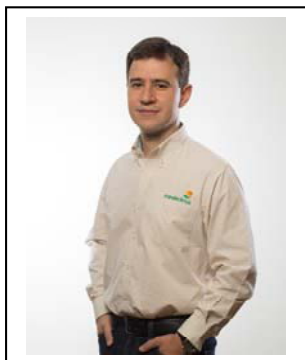


Ms. Deanne Ramroop, is graduate of the University of the West Indies with a BSc in agriculture and post-graduate training in crop protection. She is currently the Deputy Director of Research Crops, Crop Protection Sub-Division of the Research Division, of the Ministry of Agriculture, Land and Fisheries (MALF).

Within the Crop Protection Sub-Division, Ms. Ramroop has oversight of the Plant Pathology, Entomology and Plant Quarantine (PQ) Unit, of the Ministry of Agriculture, Land and Fisheries, Trinidad and Tobago.

Ms. Ramroop has worked on many Integrated Pest Management programmes inclusive of the conduct of Farmer Field Schools and the use of Farmer Participatory Approaches. She is also the Chairperson of the Caribbean Pest Diagnostic Network (CPDN). The web-based **Caribbean Pest Diagnostic Network** provides a collaboration and communication tool for plant inspectors, extension personnel and diagnosticians to share information on **plant pests**.

Dr Marcelo Pedreira de Miranda



Graduated with B.S. in Agronomic Engineering from the Federal University of Bahia in 2000 and a M.Sc. 2004. In 2008 he completed a Ph.D. in Entomology from the University of São Paulo (USP). He joined the Fund for Citrus Protection (Fundecitrus) in 2008 as a researcher. Professor of the Graduate program (MasterCitrus) at Fundecitrus since 2009. Coordinator of the Entomology thematic area at Fundecitrus since 2017. Research interests includes: citrus pest ecology; improvement of chemical control and development of alternative citrus pest management methods; and feeding behavior of insect vectors of phytopathogens. He has authored and/or co-authored 30 peer-reviewed articles.

Dr Renato Beozzo Bassanezi



Graduated from the "Luiz de Queiroz" College of Agriculture at the University of São Paulo in 1992 with a degree in Agronomy. He then completed both his Masters and PhD degrees in Agronomy from the same university in 1996 and 2000, respectively specializing in Plant Phytopathology. He has worked as a researcher for the Fund for Citrus Protection - Fundecitrus, since 2000. In 2017, he assumed the role of coordinator of the Phytopathology thematic area of the Research and Development Department. While continuing as a professor in the Master's course in Disease and Citrus Pest Control at Fundecitrus - MasterCitrus of which he was coordinator from 2013 to 2016. He is responsible for research in the area of epidemiology, management and crop loss assessment of major citrus diseases such as citrus greening, leprosis, sudden citrus death, citrus canker, citrus

black spot, and citrus variegated chlorosis (CVC). Currently, he coordinates research projects to assess the technical and economic feasibility of different management practices in adjacent lands to citrus groves affected by citrus greening.

He has collaborated with researchers from ESALQ / USP, Embrapa, Agronomic Institute of Campinas, Unesp, USDA and University of Florida (USA), Citrus Research International (South Africa), Instituto de Investigaciones en Tropical Fruticultura (Cuba) and Consejo Superior de Investigaciones Scientific (Spain). He also collaborated with the FAO Regional Office for Latin America and the Caribbean from 2012 to 2017 as a member of the Committee of Experts in citrus greening being responsible for training in the disease. its epidemiology and regional management in several countries. In 2013, he received the award "Agronomist of Citriculture 2013", granted by the Citriculture Center "Sylvio Moreira" of the Agronomic Institute of Campinas, for his important participation in the citrus sector, and received the "Certificate of recognition for his outstanding research contributions for the integrated management of Huanglongbing", granted by the United States Department of Agriculture. He published 67 scientific articles, 3 books, 18 book chapters, in addition to several manuals and technical articles on citrus diseases.

Geraldo Silva Junior

Geraldo Silva Junior has a bachelor's degree in Agronomy (2006), and a Master's degree in Plant Pathology (2008) from the Federal University of Viçosa. PhD in Plant Pathology from the University of São Paulo (ESALQ-USP) in 2011. Since 2010, he has been a researcher at Fund for Citrus Protection (Fundecitrus) in Brazil, focusing on epidemiology and management of citrus fungal diseases. At the same institution, he is a professor of Fundecitrus Master's Program. He is also a professor/advisor of the graduate program in Plant Pathology at ESALQ-USP. He is the Coordinator of Professional Graduate Programs at Capes (Brazilian government agency that supports graduate programs and students). He has published articles in scientific journals, technical publications in magazines, books, chapters, handbooks, and he has given lectures and courses to citrus growers worldwide.



Guilherme Maniezo Rodriguez



Graduated from UNESP University in 2008 as an Agronomist, then successfully completed MSc. in Plant Health from Fundecitrus. Currently he is completing his MBA in Agribusiness at Esalq-USP. He started his professional my career as a trainee agronomist at Cutrale on a farm in Frutal-M responsible for the phytosanitary management of the farm in addition to coordinating the pest and disease teams. At Fundecitrus, he has been working in the Technology Transfer area for almost 7 years with responsibility for the Phytosanitary Alert and External Greening Control projects in the regions of Avaré, Itapetininga and Santa Cruz do Rio Pardo. Administering courses, lectures and training for citrus producers in the region, as well as technical assistance.

Agenda for Session Two
Moderator: Ms. Deanne Ramroop
Co-Moderator Dr Yelitza Colmenarez

Time	Topic	Speaker
9.00-9.10	International Year of Plant Health	IYPH Video
9.10-9.40	Fundecitrus and citrus sustainability	Dr. Marcelo Pedreira de Miranda/Dr. Renato Beozzo Bassanezi - FUNDECITRUS
9.40-10.30	HLB management	Dr. Marcelo Pedreira de Miranda/Dr. Renato Beozzo Bassanezi - FUNDECITRUS
10.30-10.40	Break	
10.40-11.10	Psyllid Alert System	Dr. Marcelo Pedreira de Miranda/Dr. Renato Beozzo Bassanezi - FUNDECITRUS
11.20-12.00	Psyllid management	Dr. Marcelo Pedreira de Miranda/Dr. Renato Beozzo Bassanezi - FUNDECITRUS
12.00-12.15	Closing Remarks	All

The link for the webinar is:

<https://cabi.zoom.us/j/93002644019?pwd=TOZsTWxNaURuWW9JaUVnVStXNEdRUT09>

Meeting ID: 930 0264 4019
Passcode: 744710

Join by SIP
93002644019@zoomcrc.com

In case you have any technical questions about the webinar, please contact:
Dr Yelitza Colmenarez at y.colmenarez@cabi.org

We look forward to your participation! Please see the agenda below.

For any further information please contact:
Naitram (Bob) Ramnanan at n.ramnanan@cabi.org