

Report

Azadi Ka Amrit Mahotsav -

National Webinar “On-Farm Diagnostics of Diseases in Ornamental Crops”

ICAR-DFR, under the aegis of Indian Council of Agricultural Research has celebrated the Azadi Ka Amrit Mahotsav in its true spirit and exuberance by organizing a National Webinar “On farm Diagnostics of Diseases in Ornamental crops” on 30th November 2021 from 2.00pm to 5.00pm. The event began with ICAR-Song and Dr. K.V.Prasad, Director, ICAR-Directorate of Floricultural Research welcomed the speakers and delegates. In his remarks, he stressed on the need of on-farm diagnostics in ornamental crops for the production of quality planting material and for maintaining quality in export produces. The opening lecture was delivered by Dr. Selavarajan, R, Principal Scientist, Division of Plant Pathology, ICAR-National Research Centre for Banana, Tamil Nadu on the topic “Lateral Flow Assays : Application in On Farm Diagnostics of Diseases in Ornamental Crops”. Mrs. Poornima Gaikwad, Technical Officer, ICAR-DFR, Pune introduced the speaker. In his lecture, Dr. Selavarajan covered the diseases occurring in ornamental crops, importance of diagnostics in ornamental crops, different types of Diagnostics, their principles, application extensively with case studies. Second lecture was delivered by Dr. A. Kumar, Principal Scientist, Division of Plant Pathology, ICAR-Indian Agricultural Research Institute, New Delhi followed by his brief introduction to the audience by Dr. Shilpashree, Scientist, ICAR-DFR and he spoke on “Pathogenomics Assisted Tracking of Bacterial Phytopathogens and Diagnosis”. In his lecture he elaborated the transboundary movement and introduction of bacterial pathogens significant to all the crops including ornamental crops and their diagnosis with emphasis on genomics. Third lecture was on “Point of care diagnostics for Plant viruses” by Dr. V.K. Baranwal, Professor, Division of Plant Pathology, ICAR-Indian Agricultural Research Institute, New Delhi who was introduced by Dr. Madhavan, Scientist, ICAR-DFR. He elaborated on the Basics, principles and application of Recombinase Polymerase Amplification in On farm diagnostics of viruses and viroids in ornamental crops. Followed by the three lectures, Dr.Prabha, K, Scientist , ICAR-DFR summarized the works on On farm diagnostics initiated at ICAR-DFR and the status of On farm diagnostics in India, highlighting the need for awareness about the diseases and availability of easy onsite diagnostics. Dr.K.V. Prasad, Director ICAR-DFR, Pune delivered his concluding remarks stressing on the need of awareness among the stake holders for keeping our plant wealth safe from pathogen introductions. Dr. Madhavan, Scientist, ICAR-DFR, RS, Vemagiri delivered the official vote of thanks. The National webinar was very successful with overwhelming response from the audience where students and academia from across the country participated and the attendance was full to 100 participants limited by zoom.

Photographs

You are viewing R SELVARAJAN ICAR-NRCB's screen View Options

ICAR-National Research Centre for Banana, Tiruchirapalli

Lateral Flow Assays

Application in On Farm Diagnostics of Diseases in Ornamentals



R. Selvarajan, Ph.D, FPSI, FIVS, FHSI, FNABS, FCHAI
Principal Scientist (Plant Pathology)
ICAR-National Research Centre for Banana, Tiruchirapalli,

Prabha K, ICAR-DFR, Pune
R SELVARAJAN ICAR-NRCB
Poornima Galkwad
Pranaballava Sa...
Pranaballava Sahani

Unmute Stop Video Security Participants 95 Chat Share Screen Record Reactions Leave

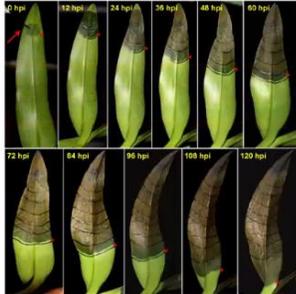
Zoom Meeting Recording

First Report of *Dickeya fangzhongdai* causing bacterial soft rot disease on *Dendrobium nobile* in India: Suspected Introduced Pathogen



- Dendrobium* orchid comprises of 800 -1500 species distributed in tropical Asia, and Australia (Zhitao et al. 2017)
- Orchid flowers are gained international importance mainly for ornamental and commercial value
- Bacterial soft rot caused by *Dickeya fangzhongdai* is a serious concern, since it kill the entire leaves and pseudo-stem
- A severe soft rot symptoms observed on *Dendrobium nobile* in Kotagiri, Nilgiris district of Tamil Nadu, which had 70 % disease incidence
- Symptoms on Leaf: Water-soaked, dark-green, irregular lesions developed on leaf margin which rapidly advanced to entire leaf lamina with a consequent of soft-tissue that resembled as 'soft-rot' disease

Symptomatology of Soft Rot Disease



A) Progression of soft rot infection on leaf; hpi – hours post inoculation



B) Infected pseudo-stem shows dark brown disintegrated tissues



C) White slimy oozing indicated its bacterial etiology of the disease

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Prabha K, ICAR-DFR, ...
Dr K S Shankara...
Dr K S Shankarappa ...
IARI-A-Kumar
Madhavah

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Zoom Meeting

Recording

Indian Agricultural Research Institute, New Delhi

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Discrete Notes

Detection of *Citrus exocortis viroid*, *Iresine viroid*, and *Tomato chlorotic dwarf viroid* in New Ornamental Host Plants in India

R. P. Singh, A. D. Oikweri, V. K. Baranwal, and K. N. Gupta

Affiliations

Published Online: 7 Mar 2007 | <https://doi.org/10.1094/PHY-30-1457A>

For J Plant Pathol
DOI: 10.1007/s10658-009-9440-4

***Citrus exocortis viroid* transmission through commercially-distributed seeds of *Impatiens* and *Verbena* plants**

Rudra P. Singh · Andrea D. Oikweri · Xiaoping Ao · Mathuresh Singh · Virendra K. Baranwal

Received: 29 September 2008 / Accepted: 29 January 2009
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Seed transmission was up to 60 %

Viroids in plants with no symptoms in plants

V. K. Baranwal

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Zoom Meeting

Recording

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	Dr. R. D Pawar			PRASHANT PAD...
		Kalaivanan, ICAR-NRCO Sik...	Sumalatha	
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				Dharmappa Chavan

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