

ISSCT Pathology Commission Webinars

Two webinars of approx. 2.5 hour each (including breaks and discussion time) on **23 June and 30 June 2022 from 1:00pm GMT – 3:30pm GMT** (times are in Greenwich Mean Time)

Thursday 23 June 2022 - Webinar 1
Theme: Sugarcane streak mosaic virus – research and updates.

- Chaired by Nicole Thompson (Chair of ISSCT Pathology Section) with presentations by Dr Rob Magarey (Sugar Research Australia) and Dr Jean-Heinrich Daugrois (CIRAD)

Thursday 30 June 2022 - Webinar 2
Theme: Pathogen diagnostics and surveillance.

- Chaired by Dr Nawshad Joomun (MSIRI) with presentations by Dr Dimitre Mollov (USDA-APHIS) and Dr Nicole Thompson (SRA)

Both webinar series will also allow for country updates and discussion following the formal presentations.

The facilitators/organizers are:

- Dr. Nicole Thompson Sugar Research Australia
- Dr. Nawshod Joomun, MSIRI
- Dr Jean-Heinrich Daugrois, CIRAD
- Dr Stuart Rutherford, SASRI

Language
The Webinar will be conducted in English.

Registration
The Registration Form for the Webinar may be accessed through the following link:

- Webinar 1: https://us06web.zoom.us/meeting/register/tZwkcu6oqzMqHdWSV39xRPVBdbCuqrWY7nnV
- Webinar 2: https://us06web.zoom.us/meeting/register/tZEpd-CqrDgvGNUvnMdcgcG58cLix0QOsboy

The Webinar is only open to compliant members of ISSCT. When you register for the webinar, your registration will be checked against ISSCT membership and payment records, and you will receive an e-mail with the meeting details (Username and Password to access the Webinar). If you have outstanding membership dues, you will be asked to pay these online before your registration is approved. The Individual Membership dues are USD 140 and may be settled through the following link: http://members.issct.org/appform/issct_india_2022.aspx

Further information
For further information, please contact the ISSCT **Pathology Chair –** Nicole Thompson nthompson@sugarresearch.com.au or the ISSCT Secretariat at issct@intnet.mu

WEBINAR 1

Thursday 23 June 2022
1:00pm – 3:30pm GMT

Registration

Session 1: Sugarcane streak mosaic virus – research and updates

Chair: Nicole Thompson

Speaker 1: 1pm GMT – 1:30pm GMT

Dr Rob Magarey (Sugar Research Australia)

Sugarcane streak mosaic virus research in Indonesia and Myanmar

SCSMV was recorded in Indonesia in the early 2000s and has since been found extensively across the Archipelago. Collaborative research between Australian, Indonesian and Myanmar scientists focused on diagnosis, epidemiology, transmission, yield loss, varietal resistance, potential insect vectors and

commercial crop incidence. Speed of disease spread appeared variable with more rapid spread in Myanmar. Sensitive and specific diagnostic assays have been developed for use in quarantine.

Speaker 2: 1:30pm GMT – 2:00pm GMT

Dr Jean-Heinrich Daugrois (CIRAD)

Outbreak of sugarcane streak mosaic virus on sugarcane in Côte d'Ivoire.

Sugarcane streak mosaic virus (SCSMV) that causes streak mosaic has been reported in several countries in Asia. Since 2016, mosaic symptoms were observed in Côte d'Ivoire and a survey performed in 2018 revealed that symptomatic plants were infected by SCSMV. Low genetic diversity was observed among 14 isolates of the virus that were fully sequenced. At Sucaf-CI estate (Ferkessédougou), disease incidence in first stage nurseries increased from 0-15% in October 2018 to 10-93% in January 2020.

SCSMV Panel discussion 2:00pm GMT – 2:30pm GMT

Panel: Rob Magarey, Jean-Heinrich Daugrois, Stuart Rutherford, Nawshad Joomun, Nicole Thompson (Chair)

15 minute break. Attendees who wish to make country update to contact Chair who will call on these in next session.

Session 2: 2:45pm – 3:30pm GMT

Country updates from attendees (part 1)

Chair: N Thompson

Attendees will be able to make comments and give updates of new diseases, or emerging issues in their country/region. Information from this session will be used to initiate the updates of disease lists for countries.

WEBINAR 2

Thursday 30 June 2022
1:00pm – 3:30pm GMT

Registration

Session 1: Pathogen diagnostics and surveillance – research and updates

Chair: Nawshad Joomun

Speaker 1: 1:00pm GMT – 1:30pm GMT

Dr Dimitre Mollov (USDA).

The use of high throughput sequencing in sugarcane virus discovery and diagnostics

Sugarcane viruses are a major concern for the exchange and movement of sugarcane germplasm worldwide. High throughput sequencing (HTS) is a powerful technology for discovery of new and emerging viruses and detection of known viruses. In this report the use of HTS for: 1) virus discovery of new and emerging viruses; 2) optimization of existing diagnostics protocols; and 3) optimization of HTS as a detection tool will be discussed.

Speaker 2: 1:30pm GMT – 2:00pm GMT

Dr Nicole Thompson (SRA).

iMapPESTS: Modernising sugarcane diagnostics and surveillance in Australia

There has been significant investment in modernising surveillance tools in Australian agriculture by developing a surveillance system known as iMapPESTS (www.iMapPESTS.com.au). This is a multidisciplinary project with the flagship being development of sophisticated sentinel units. SRA has been involved in this project by adapting, upgrading and modernising diagnostics for established and exotic sugarcane pests of biosecurity concern. In this presentation I will discuss the sentinel surveillance units, their use in sugarcane surveillance and the new tests developed for a range of sugarcane pathogens.

Diagnostics and surveillance panel discussion: 2:00pm – 2:30pm GMT

Dimitre Mollov, Nicole Thompson, Stuart Rutherford, Jean-Heinrich Daugrois, Nawshad Joomun (Chair TBA)

15 minute break: Attendees who wish to make country update to contact Chair who will call on these in next session.

Session 2:45pm – 3:30pm GMT

Country updates from attendees (part 2)

Chair: N Thompson

Attendees will be able to make comments and give updates of new diseases, or emerging issues in their country/region. Information from this session will be used to initiate the updates of disease lists for countries.