

# Explore the latest advances in research on diseases of the world's most popular fruit vegetable in one of Asia's most well-developed and vibrant agricultural economies.



The tomato industry is one of horticulture's most advanced, globalized, and innovative sectors. Annual production of this globally important crop has increased by 300% over the past 40 years.

Yet higher temperatures, heat waves and longer droughts, change in precipitation patterns, more frequent wildfires, and an increase in the number, duration, and intensity of tropical storms foster the development and spread of tomato diseases and alter pest behavior and distribution.

## Is it possible to manage tomato diseases as pest pressure increases and the climate changes?

International commerce brings prosperity, but also transports horticultural pests and diseases around the globe, including begomoviruses and emerging Crinivirus, bacterial wilt and bacterial spot, late blight and early blight, and Fusarium wilt.

## How to manage tomato diseases in a global economy?

Whether you are a scientist, technician, teacher, student, tomato producer or someone with an interest in tomato diseases, you'll want to attend the **International Society of Horticultural Science (ISHS) VI International Symposium on Tomato Diseases** and join about 200 international experts who will discuss the latest research on diseases and pests of this globally important crop.

The symposium will feature presentations on the theme of ***Managing tomato diseases in the face of globalization and climate change***.

## PRESENTATIONS

Expect plenary lectures, invited papers, and oral and poster presentations in the following categories:

1. GENETICS AND BREEDING FOR RESISTANCE
2. FOOD SAFETY AND POSTHARVEST DISEASES
3. HOST - PATHOGEN INTERACTION
4. ECOLOGY AND EPIDEMIOLOGY
5. DISEASE MANAGEMENT



## INVITED SPEAKERS

**Prof. David M. Francis** | The Ohio State University

**Dr. Moshe Lapidot** | Institute of Plant Sciences, Israel

**Prof. Shyi-Dong Yeh** | National Chung Hsing University

**Prof. William Earl Fry (Emeritus)** | Cornell University

**Dr. Kai-Shu Ling** | USDA-ARS, U.S. Vegetable Laboratory

**Dr. Nemo Peeters** | French National Institute for Agricultural Research (INRA)

## TOMATO IN TAIWAN

Tomatoes were first imported to Taiwan by the Dutch during their occupation in the early 1600s, and remain a popular fruit-vegetable. The area of land used for tomato production peaked at about 12,400 hectares in 1984, but then declined to an average of about 4,500 hectares from 1993 until now, with production fluctuating between 24 and 30 tons per hectare. Average farm size is about 0.7 hectares, and tomato producers often join cooperatives to supply tomatoes to specific outlets.

Tomato production has become a relatively sophisticated industry. The trend towards growing tomatoes under protected conditions in poly-net tunnels rather than in the open field, which started in the northern production areas, is now spreading further south. Most farmers purchase tomato seedlings from specialist nurseries, and there is also a trend towards using grafted plants to manage diseases and to improve fruit quality. Most tomatoes grown in Taiwan are traded as fresh fruit and consumed raw as a dessert or part of a salad, or cooked. There is limited tomato production for large scale commercial processing.

Perhaps because of island's long history of tomato cultivation, and Taiwan being a major shipping and trading hub in East Asia, many of the pests and diseases affecting tomato in other parts of the world have been introduced into Taiwan and threaten production. Some of the important diseases include the begomoviruses and emerging Crinivirus, bacterial wilt and bacterial spot, late blight and early blight, Fusarium wilt, Southern blight and Stemphylium leaf spot.

Taiwan has a well-developed and high quality agricultural and horticultural research system and infrastructure, and there are many different organizations carrying out basic and applied research and development activities on diseases and pests of tomato, including universities, government agencies, and private seed companies.

## TAICHUNG

Taichung is Taiwan's second largest city — a modern, well-developed metropolis with a good selection of hotels and easy access to Taoyuan International Airport (Taipei) via high-speed rail and Taichung International Airport for regional flights.

Two of the convening organizations are located in or near the city, and the city is conveniently located for visiting the main tomato growing areas to the south. Dates for the symposium have been chosen so there will still be tomatoes in the field and the summer typhoon season will not have started.

## WEATHER

Taichung has generally pleasant, warm weather in May. Daytime temperatures are about 27°C (81°F); nightly 21°C (69°F), with 85% relative humidity.

## VENUE

The VI International Symposium on Tomato Diseases will be held at **National Chung Hsing University** (NCHU) in Taichung, Taiwan. NCHU started as an agricultural college, but has grown to be one of the island's largest institutes of higher education and a leading science university in Taiwan. The Plant Pathology Department is large (200 undergraduate students and 55 graduate students) and well-equipped; along with training, it carries out advanced research in areas such as molecular plant pathology and virology, etiology and taxonomy, microbial and plant biotechnology, and integrated disease management.

The university is located in southeast Taichung, about 7 km (16 minutes) from the Taichung High Speed Railway Station.



## CURRENCY

The New Taiwan Dollar (NTD) is the national currency of Taiwan. All major international currencies can be exchanged at Taiwan's international airports, large hotels and banks.

## VISA

International participants must have a valid passport and visa. For details, visit the Taiwan Bureau of Consular Affairs website: <https://www.boca.gov.tw/mp-2.html> An invitation letter for obtaining a visit will be issued on request.

## FEES (USD)

	<b>EARLY</b> July 1 – Aug 31, 2018	<b>REGULAR</b> Sept 1, 2018 – Feb 16, 2019	<b>LATE</b> Feb 16 – Apr 15, 2019
ISHS Member	550	580	610
Nonmember	645	675	705
Student	310	340	360
Taiwan residents	150	150	150
One-day pass	220	220	220
Accompanying	200	200	200

Registration includes access to all sessions; all lunches and coffee breaks; two dinners; field trip lunch, snacks and transportation; gift bag, and a copy of the proceedings to be published as a volume of *Acta Horticulturae*. Accompanying person fee includes gift bag, two dinners.

## KEY DATES

Abstract submission opens: **1 July 2018**  
Acta Horticulturae full paper submission opens: **1 July 2018**  
Early registration starts: **1 July 2018**  
Early registration closes: **31 August 2018**  
Abstract submission closes: **18 March 2019**  
Acceptance of abstract notification: **21 March 2019**  
Acta Horticulturae full paper submissions due: **31 March 2019**  
Registration closes: **15 April 2019**

## REGISTER TODAY!

# 2019tomato.org

World Vegetable Center  
PO Box 42  
Shanhua, Tainan 74199  
TAIWAN

T +886 (0) 583-7801  
F +886 (0) 583-0009  
E [info@2019tomato.org](mailto:info@2019tomato.org)



# VI INTERNATIONAL SYMPOSIUM ON TOMATO DISEASES

*Managing Tomato Diseases in the Face of Globalization and Climate Change*

**6 - 9 May 2019**  
**Taichung, Taiwan**

## ORGANIZERS

World Vegetable Center  
Taiwan Agricultural Research Institution  
National Chung Hsing University

## SPONSORS

International Society for Horticultural Science  
Taiwan Council of Agriculture  
Taiwan Ministry of Science and Technology  
CropLife Asia

