

2023



**JUNE 18-23, 2023**

CNR-ISPA Bari, Italy



<http://www.ispacnr.it/fusarium-2023>

### TOPICS

Laboratory Strain Identification  
Molecular Identification  
Comparative genomics  
*Fusarium* plant pathogeny mechanism  
Species Concepts  
Mating Types and Crosses  
VCG Analysis  
Strain Preservation  
Mycotoxins

### INSTRUCTORS

Anne Van Diepeningen  
Anthony Glenn  
Antonia Susca  
Antonio Logrieco  
Antonio Moretti  
Brett Summerell  
David Geiser  
Florence Forget  
John F. Leslie  
Rudolf Krska

### ORGANIZERS

A. Moretti, G. Mulè, A. Logrieco  
CNR- ISPA

## 2023 SCHEDULE

### Sunday, June 18th

- Registration (at hotel)  
(7:00 pm - Social hour and Welcome dinner)

### Monday, June 19th

- Introduction to morphology, phylogenetics and taxonomy
- Introduction to Species concepts
- *F. sambucinum* species complex – Part I
- Single spore isolation
- Soil dilution and plant isolation recovery

### Tuesday, June 20th

- Trichothecenes & Zearalenone
- *Fusarium* genetics and genomics
- Vegetative compatibility
- Single spore isolation lab follow-up
- *F. oxysporum*/*F. solani* species complexes and basal lineages
- *Fusarium* head blight modeling
- Temperate region *Fusarium* species and diseases
- Strain preservation and conservation

### Wednesday, June 21st

- *F. fujikuroi* species complex
- Fumonisin and other mycotoxins
- ELISA mycotoxin detection kits
- DNA analysis and identification
- *Fusarium* plant pathogenicity
- Population genetics
- Molecular diagnostic
- Tropical region *Fusarium* species and diseases

### Thursday, June 22nd

- Mating type
- *Fusarium* genetics and genomics
- *F. incarnatum-equiseti* species complex
- *F. sambucinum* species complex – Part II
- *F. tricinctum* species complex
- Morphology quiz  
(8:00 pm - Workshop Farewell Party)

### Friday, June 23rd

- Mycotoxins detection and analysis
- *Fusarium* in human and domesticated animals
- Closing thoughts
- Distribution of certificates
- Workshop evaluation  
(Lunch on your own)

### REGISTRATION

**For registration visit the website**

**<http://www.ispacnr.it/fusarium-2023>**

Registration is not complete until fees are paid. Registration after **April 30th** is on a space-available basis only. Enrollment is limited. Virtual attendance is not available.

### WORKSHOP FEES

The registration fee of €1800,00 includes workshop materials, handouts, a copy of the *Fusarium* Laboratory Manual, welcome and workshop dinners, training lunches, lab supplies, a certificate of completion, and the ISM ordinary membership. A reduced fee of €1500,00 is available for ISM members.

## INSTRUCTORS

**Anne Van Diepeningen** - A fungal geneticist in the Biointeractions and Plant Health unit of Wageningen University and Research (Holland). She worked for several years at the Westerdijk Fungal Biodiversity Institute studying *Fusarium* infections in humans and animals, but now focuses on plant pathogens and mycotoxigenic species both in green house and open field crops.

**Anthony Glenn** - Research Leader at USDA, ARS in Athens (GA, USA). Experience with *Fusarium* species associated with agricultural crops. He seeks to understand how *Fusarium* species have adapted to their environments and what enzymatic processes confer the fitness they need to survive and thrive.

**Antonia Susca** - Senior Researcher at CNR-ISPA in Bari (Italy). Experience with characterization of mycotoxins biosynthetic gene clusters, development of DNA-based detection assays for toxigenic fungi, phylogenetics of toxigenic fungi. Over 20 years of experience in analysis of DNA-based biodiversity in toxigenic fungal species.

**Antonio Logrieco** - Director of CNR-ISPA in Bari (Italy). Experience with epidemiology, taxonomy, prevention/control of mycotoxin-producing species. Coordinator of various international projects on mycotoxin management along food chain.

**Antonio Moretti** - Research Leader at CNR-ISPA in Bari (Italy). Serving as member of National Scientific Committee of CNR. Over 30 years of experience on *Fusarium* biodiversity, epidemiology, taxonomy and genetics.

**Brett Summerell** - Chief Scientist and Director of Science, Education and Conservation at the Australian Institute of Botanical Science at the Botanic Gardens Sydney (Australia). Over 30 years of experience with the taxonomy, identification, and description of *Fusarium* species and the plant diseases caused by these fungi. Co-authored two lab manuals on *Fusarium* identification.

**David Geiser** - Professor in the Department of Plant Pathology and Director of the *Fusarium* Research Center, Pennsylvania State University (PA, USA). Experience with molecular evolution of fungi and fungal population genetics.

**Florence Forget** - Director of INRAE-MycSA (France), with more than 20 years of experience in managing R&D projects on the management of toxin-producing fungi that infect agricultural commodities. She has a strong experience in coordinating networks that involve stakeholders, was an EFSA expert involved in the QPS group (2010-2014) and an ANSES Expert in CES Biorisks.

**John F. Leslie** - University Distinguished Professor in the Department of Plant Pathology at Kansas State University (KS, USA). Currently serving as a Jefferson Science Fellow in the U.S. Department of State. Over 40 years of experience with *Fusarium* genetics and population analysis.

**Rudolf Krska** - Extensive experience with determination of mycotoxins. Professor at BOKU Vienna (Austria) and Queen's University Belfast (Ireland). Has evaluated the impact of trichothecenes on humans for FAO/WHO (JECFA) and is among the most cited authors in mycotoxin research.

## ABOUT THE WORKSHOP

This workshop will be taught by international *Fusarium* experts. Participants will be introduced to standard morphological, genetic and molecular biological techniques used to identify and characterize strains of *Fusarium*. Participants will learn how use morphological characters to identify the most common *Fusarium* species, to make tests for vegetative compatibility groups (VCGs) and cross-fertility, and how to extract, PCR amplify, and analyze DNA sequences. Most of the time will be spent in the laboratory working with standard strains. CNR-ISPA is committed to make programme activities accessible to all participants. Participants with disabilities should indicate in the registration form any special needs, or contact the ISPA Office at least 4 weeks before. We will make every effort to provide assistance, but cannot guarantee the requested services will be available.

## ACCOMMODATIONS

Participants are responsible for all transportation costs, including visas, to and from Bari and for their accommodations and meals, except those noted, while in Bari. Lunch meals for the entire workshop will be provided. Housing, including breakfast, will be available at the Campus Hotel (800 m from the workshop venue - fax/tel +39-0805520805 e-mail: [gestionii29852@campushotel.191.it](mailto:gestionii29852@campushotel.191.it)), or at Hotel Adria (2 km from the workshop venue - fax/tel: +39-0805246699 e-mail: [info@adriahotelbari.com](mailto:info@adriahotelbari.com)).

When booking your hotel, please indicate your participation at the *Fusarium* Workshop.

## STRAIN SET PURCHASE OPTION

An optional Strain Set is available for purchase for €500,00. Strain fees are in addition to the workshop registration fee.

## WORKSHOP/COURSE QUESTIONS

For registration or course information, contact the Conference Registration Office (Giancarlo Perrone - [giancarlo.perrone@ispa.cnr.it](mailto:giancarlo.perrone@ispa.cnr.it) or Pamela Anelli - [pamela.aneli@ispa.cnr.it](mailto:pamela.aneli@ispa.cnr.it) from Monday to Friday, 9 a.m. to 6 p.m.).

If you require a visa to enter the Italy and need an invitation letter, please contact Pamela Anelli. The invitation letter will be sent to you by fax or e-mail. We will not send original letters to embassies or provide other assistance in securing a visa.

## CANCELLATION&REFOUND POLICY

If you must cancel your registration, do it as soon as possible. Substitutions are accepted. Registration fees, less a €100,00 processing fee, will be refunded only if notice is received by the Conference Reservation Office by 6:00 p.m. April 30. After that no refunds can be given. The ISPA office could cancel or postpone the course because of insufficient enrollment or other unforeseen circumstances. If a programme is cancelled or postponed, the ISPA Office will refund registration fees but cannot be responsible for other costs, charges, or expenses, including cancellation/change charges assessed by airlines or travel agencies.

## SPONSORS

