



Fusarium Laboratory Workshop

JUNE 3 – 8, 2012

www.mycotox-society.org/fusarium-2012

ISPA - CNR
Bari, Italy

Topics:

Laboratory Strain Identification
VCG Analysis
Mating Types and Crosses
Molecular Identification
Species Concepts
Mycotoxigenic species

Instructors:

David Geiser
Ralf Kristensen
John F. Leslie
Antonio F. Logrieco
Antonio Moretti
Giuseppina Mulè
Ulf Thrane
Brett Summerell
Cees Waalwijk

Organizer:

Antonio F. Logrieco
ISPA- CNR



6/3 Sunday

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

6/4 Monday 8:00 a.m. - 5:30 p.m.

- ◇ Welcome an Introduction to Workshop Program
- ◇ Introduction to *Fusarium* taxonomy
- ◇ Introductory laboratory - morphological characteristics
- ◇ Molecular biological techniques – Lecture
- ◇ Lunch (provided)
- ◇ Vegetative compatibility – Lecture & lab
- ◇ Strain purification – Lecture & lab
- ◇ Species concepts – Lecture

6/5 Tuesday 8:00 a.m. - 5:30 p.m.

- ◇ Sections *Discolor* & *Roseum* – Lecture & lab
- ◇ Trichothecenes & Zeralenone – Lecture
- ◇ Strain purification laboratory follow-up
- ◇ Lunch (provided)
- ◇ Real time PCR - Lecture & lab
- ◇ *F. oxysporum*/*F. solani* - Lecture & lab

6/6 Wednesday 8:00 a.m. - 5:30 p.m.

- ◇ Section *Liseola* and related species - Lecture & lab
- ◇ Fumonisin & other mycotoxins – Lecture
- ◇ Lunch (provided)
- ◇ Mycotoxin detection - Lecture & lab
- ◇ DNA sequences & phylogenetics- Lecture & lab
- ◇ Mycotoxin detection - Lecture & lab
- ◇ DNA sequences & phylogenetics- Lecture & lab



6/7 Thursday 8:00 a.m. - 5:30 p.m.

- ◇ Mating type - Lecture & lab
- ◇ Section *Arthrosporiella* and other species – Lecture & lab
- ◇ Tropical *Fusarium* species - Lecture
- ◇ Lunch (provided)
- ◇ Section *Gibbosum* & *Sporotrichiella* - Lecture & lab
- ◇ Preservation techniques – Lecture & lab
- ◇ 8.00 pm Workshop farewell Party

6/8 Friday 8:00 a.m.—12:30 a.m.

- ◇ Population Genetics - Lecture
- ◇ *Fusarium* Genomics - Lecture
- ◇ What is a species? A practical guide - Lecture
- ◇ Wrap up - questions and discussion
- ◇ Workshop evaluation



This workshop will be taught by eight 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 to use morphological characters to identify the most common *Fusarium* species, how to make tests for vegetative compatibility groups and cross-fertility, and how to extract, PCR amplify DNA, and to analyze DNA sequences. More than half of the time will be spent in the laboratory working with standard strains. Students may bring some of their own strains.

INSTRUCTORS

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

Ralf Kristensen - Researcher at the Norwegian Veterinary Institute in Oslo. Specializes in the molecular analysis and identification of *Fusarium* species, especially those that produce mycotoxins.

John F. Leslie - Professor in the Department of Plant Pathology at Kansas State University. Over 25 years of experience with *Fusarium* genetics and population analysis.

Antonio Logrieco - Research leader at the Institute for the Science of Food Production (ISPA), CNR, in Bari. Specializes in epidemiology and morphological taxonomy of mycotoxin-producing species. He has 20 years of experience in the identification of toxigenic *Fusarium* species.

Antonio Moretti - Senior Researcher at ISPA. Specializes in epidemiology and morphological taxonomy of mycotoxin producing *Fusarium* species. He has 17 years of experience in the identification of toxigenic *Fusarium* species from head blight, maize ear rot and other important diseases.

Giuseppina Mulè - Senior Researcher at ISPA. Expert in molecular diversity, microbial evolution and PCR detection methods of toxigenic fungi. She has 15 years of experience working with *Fusarium* species.

Brett Summerell - Director of Plant Sciences at the Royal Botanic Gardens in Sydney. Has 20 years of experience in the taxonomy, identification and description of new *Fusarium* species and has conducted research on *Fusarium* diseases of palms, ornamental plants, maize, wheat and vegetables, and co-authored two laboratory manuals on *Fusarium* identification.

Ulf Thrane - Associate Professor at the Department of Systems Biology in the Technical University of Denmark. More than 20 years of experience in *Fusarium* chemotaxonomy.

Cees Waalwijk - Senior scientist at Plant Research International. Major field is molecular pathology and has 10 years of experience with the *Fusarium* genus. Special interests are genome organization and biosynthesis of mycotoxins as well as molecular detection methods.

ACCOMODATIONS

Housing, including breakfast, will be available at the Campus Hotel (800 m from the workshop venue; rates around 40 €/day (single room) or 65 €/day (double room): fax/tel +39-0805520805; e-mail gestioni129852@campushotel.191.it) or at the Campus-X hotel (2 km from the workshop venue; rates around 30 €/day (single room) or 50 €/day (double room): fax/tel +39-080-9176000; e-mail info@campusxbari.it). When booking your hotel, please, indicate your participation in the FUSARIUM WORKSHOP. Lunch meals for the entire workshop will be provided.

REGISTRATION INFORMATION

To register: E-MAIL the enclosed **signed** registration form (mariella.quarto@ispa.cnr.it) or register **ON-LINE** at <http://www.mycotox-society.org/fusarium-2012> or **FAX** your registration to +39-080-592-9374. Registration is not complete until fees are paid. Registration after April 27th is on a space-available basis only. Enrollment is limited, and priority is given to those who register first.

WORKSHOP FEES

The workshop registration fee of € 1300 includes all course materials, handouts, welcome and farewell parties and workshop lunches, lab supplies, a Certificate of Participation, the International Society for My-

cotoxicology ordinary membership and refreshment breaks each day. Limited financial assistance for International Co-operation Partner Countries students is available — Contact Dr. Logrieco for more information.

CANCELLATION AND REFUND POLICY

If you must cancel your registration, do so as soon as possible. Substitutions are encouraged. Registration fees, less a €100.00 processing fee, will be refunded only if notice is received by the Conference Reservation Office/ISPA by 6:00 p.m. April 27th. After that date, due to guarantees we must give, no refunds can be given. The ISPA office may cancel or postpone the course because of insufficient enrollment or other unforeseen circumstances. If a program is cancelled or postponed, the ISPA Office will refund registration fees but cannot be held responsible for other costs, charges, or expenses, including cancellation/change charges assessed by airlines or travel agencies.

QUESTION/INFORMATION

Call the Conference Registration Office at +39-080-5929365 (mariella.quarto@ispa.cnr.it) between 8:00 a.m. and 6:00 p.m. Monday through Friday for registration information. For information about the course, contact Antonio F. Logrieco at +39-080-5929357 or +39 349-2704109 or e-mail antonio.logrieco@ispa.cnr.it. If you require a visa to enter the Italy and need a letter of invitation to the workshop, please contact Antonio F. Logrieco (information above). This letter of invitation 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.

Local Assistants:

Francesca Fanelli
Giancarlo Perrone
Antonella Susca

Technical Assistants:

Giuseppe Cozzi
Filomena Epifani
Angela Pastoressa
Mariella Quarto
Vincenzo Ricci
Stefania Somma
Gaetano Stea

Special Assistance

CNR-ISPA is committed to making program activities accessible to all participants. Participants with disabilities should indicate on the registration form any special needs they might have, or contact the ISPA Office at least four weeks before the conference begins. After that date, we will make every effort to provide assistance but cannot guarantee that requested equipment or services will be available.

REGISTRATION

(registration is not complete until fees are paid)

Last Name First Name

Firm/Company

Department

Mailing Address

City State/Country Zip + 4

() _____ () _____
Daytime Phone Number Fax Number

E-mail Address

Conference fees: (€ euro)

_____ € 1.300 Registration fee

_____ € 350 Optional Strain Set Purchase (total number of strains: 69)

_____ **TOTAL ENCLOSED**

Method of Payment:

OPTION 1: Credit Card

_____ Please charge to my _____ MasterCard _____ Visa
_____ American Express

Card Number Expiration Date

Cardholder's Name

Cardholder's Signature

_____ Please Invoice my firm/company. To be invoiced, you must provide a purchase order number:

OPTION 2: Bank Transfer

Please make draft payable to "Fusarium Workshop" and send to BANCO DI NAPOLI, Castellana Grotte (BA, Italy)
Account ISM Association:1000/1080
IBAN: IT22 S010 1041 4401 0000 0001 080
Swift: IBSPITNA

Date Signature

Mail the completed registration form to:
Fusarium laboratory Workshop
Consiglio Nazionale delle Ricerche, ISPA
Via Amendola 122/O
70126 Bari, Italy

On line registration and payment available at web site:
www.mycotox-society.org/fusarium-2012