



Fusarium Laboratory Workshop

29 May – 3 June 2016

www.fabinet.up.ac.za

Forestry and Agricultural Biotechnology Institute (FABI). University of Pretoria. South Africa

About the Workshop:

The *Fusarium* Laboratory Workshop will be hosted by FABI, an institute globally recognized for research in mycology/plant pathology (www.fabinet.up.ac.za) and will be presented by internationally recognized *Fusarium* researchers. Participants will be introduced to standard morphological, genetic and molecular biological techniques used to identify and characterize species and strains of *Fusarium*.

More than half of the duration of the workshop will be "hands on" and spent in the laboratory working with a standard set of strains. Participants will learn how to use morphological characters to identify common *Fusarium* species, how to perform vegetative compatibility group (VCG) and cross-fertility assays, and how to amplify DNA and analyze DNA sequences. The workshop will also include a suite of lectures on topics such as species concepts, phylogenetics, population genetics and genomics.

Topics:

Laboratory Strain Identification
VCG Analysis
Mating Types and Crosses
Molecular Identification
Species Concepts
Phylogenetics
Population Genetics
Genomics

Registration Information

Website: www.fabinet.up.ac.za
– click on Fusarium Laboratory Workshop

- * Registration will not be complete until fees are paid. Participant numbers will be limited.
- * Completed registration form should be sent to Gerda Fourie (gerda1.fourie@fabi.up.ac.za).
- * Gerda Fourie can be contacted in the case of any additional question and/or queries

Instructors:

Prof. Pedro W. Crous	Dr. Lorenzo Lombard
Dr. Gerda Fourie	Dr. Gordon S. Shephard
Prof. David M. Geiser	Prof. Emma T. Steenkamp
Dr. Sandra C. Lamprecht	Dr. Brett A. Summerell
Prof. John F. Leslie	Prof. Brenda D. Wingfield
	Prof. Michael J. Wingfield

Organizer:

Prof. Emma T. Steenkamp
Forestry and Agricultural
Biotechnology Institute
(FABI)
University of Pretoria

Lead-Instructors

Prof. Pedro Crous: Director of the CBS (Centraalbureau voor Schimmelcultures) Fungal Biodiversity Centre in Utrecht, Netherlands. Expertise: Phytomycology and fungal systematics.

Prof. David Geiser: Professor in the Department of Plant Pathology and Director of the Fusarium Research Center, Pennsylvania State University, USA. Expertise: Fungal molecular evolution and population genetics.

Dr. Sandra Lamprecht: Senior Plant pathologist at the Agricultural Research Council's Plant Protection Research Institute, Pretoria, South Africa. Expertise: *Fusarium* pathology and ecology.

Prof. John Leslie: University Distinguished Professor in the Department of Plant Pathology at Kansas State University, Manhattan, USA. Expertise: *Fusarium* genetics and population genetics.

Dr. Gordon Shephard: Adjunct Professor at the Institute of Biomedical and Microbial Biotechnology, Cape Peninsula University of Technology, Bellville, South Africa. Expertise: Mycotoxicology.

Prof. Emma Steenkamp: Forestry and Agricultural Biotechnology Institute, University of Pretoria, Pretoria, South Africa. Expertise: *Fusarium* genetics.

Dr. Brett Summerell: Director of Science and Public Programs at the Royal Botanic Gardens, Sydney, Australia. Expertise: *Fusarium* diagnostics, taxonomy and pathology.

Workshop Fees

The \$1,100 registration fee includes workshop materials, handouts, welcome and workshop dinners, lab supplies, a certificate of participation, and refreshment breaks each day. Should you require an invoice and/or have queries regarding payment options please contact Eva Muller (eva.muller@fabi.up.ac.za).

Other pertinent information

Other than providing participants with robust tools and experience for working with *Fusarium* spp., this workshop will enable those in attendance to experience the dynamic research environment at FABI and to engage with a large number of internationally recognized mycologists.

It will be an unique African experience for those delegates new to this fascinating part of the world and the organisers will be happy to provide assistance for those interested in visiting famous African game parks and other southern African areas of interest.

Please discuss these options with the organisers and remember that the 'hands on' nature of this workshop demands that the numbers of participants must be strictly limited.