

## Mesfin Wondafrash Gossa Curriculum Vitae

#### **Personal information**

Name: Mesfin Wondafrash Gossa

Nationality: Ethiopian

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#### **Profile**

I am interested in the surveillance, monitoring, phylogeny, genetic diversity, ecology, biocontrol, and management of insect and nematode pests of economic importance to agriculture and forestry. Currently, I am a postdoc at the Forestry and Agricultural Biotechnology Institute (FABI), the University of Pretoria working on a project that focuses on survey, identification and management of wattle pests and diseases in Ethiopia. I have completed two other postdoc projects at FABI. One focusing on the genetic diversity and distribution of *Eucalyptus* insect pests and their natural enemies in sub-Saharan Africa and the other on monitoring plant health in botanical gardens across South Africa. I have also worked as a lecturer for two universities and as a junior and assistant researcher for a National Agricultural Research Institute in Ethiopia. I have had a chance to visit several universities and research institutes in Europe and attended and presented on several national and international conferences. The results of my research were published in peer reviewed international journals.

#### **Education**

2013-2016	PhD in Entomology, University of Pretoria, South Africa				
	Thesis research: Ecology and diversity of introduced Pissodes				
	(Coleoptera: Curculionidae) in South Africa				
2010-2012	MSc in Nematology, Universiteit Gent, Belgium; Universität Bielefeld;				
	Germany; Universidade de Évora, Portugal and Universidad de Jaén,				
	Spain				
	Thesis research: Effects of root feeding nematodes on shoot herbivor				
	insects (conducted at Radboud University Nijmegen, The Netherlands)				
2005-2007	MSc in Insect Sciences, Addis Ababa University, Ethiopia				
	Thesis research: Effects of neem extracts on the feeding, survival,				
	longevity, and fecundity of African bollworm, Helicoverpa armigera				
	(Lepidoptera: Noctuidae)				
1998-2002	BSc in Plant Sciences, Alemaya University, Ethiopia				
	Senior project: Diversity and spatial structure of home-garden plant				
	species in Alemaya district, Ethiopia				

<b>Emplo</b>	yment
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2017 - Present	Postdoctoral Research Fellow, Forestry and Agricultural
	Biotechnology Institute (FABI), University of Pretoria, South Africa
2008 - 2018	Lecturer and Researcher, School of Plant Sciences, Haramaya
	University, Ethiopia
2007	Lecturer and Researcher, Dept. of Plant Sciences, Arba Minch
	University, Ethiopia
2005 - 2007	Assistant Researcher, Werer Agri. Research Centre, Ethiopian Agri.
	Research Organization (EARO), Ethiopia
2003 - 2005	Junior Researcher, Werer Agri. Research Centre, Ethiopian Agri.
	Research Organization (EARO), Ethiopia
2001	Intern, National Wheat Research Project, Kulumsa Agri. Research
	Centre, Ethiopia

# **Teaching experience**

# **Courses presented to postgraduate (MSc) students**

2012 Agricultural Nematology, Haramaya University, Ethiopia

# **Courses presented to undergraduate students**

2009-2010	Agrometeorology, Haramaya University, Ethiopia
2009-2010	Applied Climatology, Haramaya University, Ethiopia
2009	Weeds and their Management, Harar Agro-technical College, Ethiopia
2008-2010	Management of Crop Pests and Diseases of Economic Importance,
	Haramaya University, Ethiopia
2007	General Entomology, Arba Minch University, Ethiopia
2007	Applied Entomology, Arba Minch University, Ethiopia

## **Course assistance**

2017-2018 Introductory Crop Protection course for Zoology and Entomology undergraduate students, University of Pretoria, South Africa

# **Student supervision (completed)**

Statement Super (Island (Compressed)					
2018 – present	Agil Katumanyame, PhD student, University of Pretoria, South Africa				
	(Co-supervisor). Thesis title: Evaluation of entomopathogenic				
	nematodes as bio-control agents in the management of white grubs in				
	forestry and sugarcane plantations of South Africa				
2019	Lesego Malekana, Undergraduate mentorship student, University of				
	Pretoria, South Africa				
2015	Thendo Budeli, Undergraduate mentorship student, University of				
	Pretoria, South Africa				
2008-2012	Supervised 19 Senior Seminar and 18 Practical Attachment projects				
	undergraduate students, Haramaya University, Ethiopia				

# **Student supervision (ongoing)**

2022 – present	Mpho Mathalauga,	Honors student,	University	of South Africa	
	(Primary supervisor). Project title: Investigating the evidence of new				
	infestation of the Poly	yphagous Shot Ho	le Borer (PS	SHB), Euwallacea	

fornicatus (Coleoptera: Curculionidae) in the KwaZulu-Natal National Botanical Garden.

# Research experience

# University of Pretoria (South Africa), Postdoctoral Research Fellow, January 2017 – present

In the first two years of my postdoc (2017-2018), I investigated *Eucalyptus* insect pests and their natural enemies in sub-Saharan Africa. This includes many eucalypt-feeding insects that have been recently introduced in the region and pose a serious threat to the sustainability of *Eucalyptus* forestry. To understand this problem, we developed *Eucalyptus* Insect Pest Project in Africa (EIPPA). This was a collaborative project which involved various stakeholders in 14 countries across sub-Saharan Africa. In this project, we confirmed the presence of five invasive insect pests of *Eucalyptus* across the region, mapped their geographic distribution and unravelled the genetic diversity and host utilization patterns of these pests. Similarly, we identified nine parasitoids of *Eucalyptus* insect pests and mapped their distribution in sub-Saharan Africa. Results from this project will be useful to inform management strategies of eucalypt insect pests in the region.

In the next three years (2019-2021), my research was focused on monitoring tree health at sentinel sites, specifically in botanic gardens across South Africa. The project was initiated framework of the International Plant Sentinel under Network (www.plantsentinel.org) to improve surveillance and identification of new and emerging pest risks in South Africa. Besides using botanic gardens as an early warning system to identify new pest and pathogen threats, the project aims at identifying pre-existing plant health issues and works towards building capacity of garden staff in monitoring, detection and management of pests and diseases. It is a collaborative project conducted in partnership with SANBI, FABI and International Plant Sentinel Network (IPSN). Plant health assessments were made in ten botanical gardens across South Africa and many insect pests and pathogens were identified. Many capacity building activities, including seminars, presentations, webinars and workshops were held for garden staff and university students to build capacity in the detection and management and pathogens (please refer of pests https://www.fabinet.up.ac.za/index.php/sentinel-plant-network).

Currently, I am conducting research on wattle pests and diseases in Ethiopia with the aim to identify key insect pets and diseases of wattle plantations. Three surveys were conducted in different seasons in 2022 and major insect pests and diseases were identified, their distribution was mapped, and the prevalence and severity were quantified. Potential short and long-term management interventions have been identified and efforts are ongoing to develop sustainable management practices.

## University of Pretoria (South Africa), PhD student, April 2013 – November 2016

I was provided scholarship by University of Pretoria and National Research Foundation (NRF). I was trained as an entomologist with strong background in ecology and management of insect pests. I studied the diversity and ecology of introduced pine weevil in South Africa. I investigated its species identity, genetic diversity, population structure, natural enemies, patterns of host utilization and its interaction with *Sirex* wodwasp- another invasive pine insect

pest. By assisting at Biological Control Centre of the University of Pretoria, I have also gained critical skills in biological control of insect pests.

# Ethiopian Agricultural Research Organization, Junior and Assist Researcher, January 2003 – August 2007

My career as an entomologist started when I joined this institute as a junior researcher back in 2003. I gained critical skills in research methods (proposal writing, filed trials and laboratory experiments, data collection, data analysis, writing and presentation) and learnt core techniques in insect sciences (entomology). Under the guidance of senior entomologists, I studied the virulence of entomopathogenic fungi against cotton bollworm, the prevalence and distribution of natural enemies of major cotton insect pests, the efficacy of synthetic and botanical insecticides against insect and mite pests of cotton and groundnut. I evaluated the effectiveness of extracts of neem seed and leave extracts against cotton bollworm. I have also characterized and selected cotton and groundnut varieties for their resistance/tolerance to insect pests.

#### **Publications**

[Kindly be informed that I use my first and middle name (Mesfin Wondafrash) in all my publications]

#### Journal articles

- **Wondafrash M,** Slippers B, Asfaw BA, Makowe IA, Jenya H, Bush S, Kayumba I, Nambazimana A, van der Lingen S, Hurley BP. 2021. Tracing the distribution of natural enemies of non-native invasive *Eucalyptus* insect pests in sub-Saharan Africa. Southern Forest: a Journal of Forest Sciences **83**: 01-10.
- **Wondafrash M**, Wingfield MJ, Wilson JUR, Hurley BP, Slippers B, Paap T. (2021). Botanical gardens as key resources and hazards for biosecurity. Biodiversity and Conservation **30:** 1929-1946.
- **Wondafrash M**, Slippers B, Nambazimana A, Kayumba I, Nibouche S, van der Lingen S, Asfaw BA, Jenya H, Mutitu EK, Makowe IA, Chungu D, Kiwuso P, Kulimushi E, Razafindrakotomamonjy A, Bosu PP, Sookar P & Hurley BP (2020). Distribution and genetic diversity of five invasive pests of *Eucalyptus* in sub-Saharan Africa. Biological Invasions, 22: 2205 2221.
- **Wondafrash M**, Slippers B, Hurley BP & Garnas J (2019). Local antagonism and resource partitioning between two invasive pine plantation pests. Agricultural and Forest Entomology, 21: 276-285.
- Van Dam NM, **Wondafrash M**, Mathur V & Tytgat TO (2018) Differences in hormonal signaling triggered by two root-feeding nematode species result in contrasting effects on aphid population growth. Frontiers in Ecology and Evolution 6:88, *doi:* 10.3389/fevo.2018.00088
- **Wondafrash M**, Slippers B, Garnas J & Hurley BP (2017). Parasitoid assemblage associated with a North American pine weevil in South Africa. Agricultural and Forest Entomology 20: 208 216.

- **Wondafrash M**, Slippers B, Garnas J, Roux G, Foit J, Langor DW & Hurley BP (2016) Identification and genetic diversity of two *Pissodes* spp. Germar (Coleoptera:Curculionidae) in their introduced range in the southern hemisphere. Biological Invasions 18: 2283-2297.
- Abebe E, Mekete T, Seid A, Meressa BH, **Wondafrash M**, Addis T, Getaneh G & Abate BA (2015) Research on plant-parasitic and entomopathogenic nematodes in Ethiopia: a review of current state and future direction. Nematology 17: 741-759.
- **Wondafrash M**, Van Dam NM & Tytgat TO (2013) Plant systemic induced responses mediate interactions between root parasitic nematodes and aboveground herbivorous insects. Frontiers in Plant Science 4: 1-15.
- **Wondafrash M**, Getu E & Terefe G (2012a) Life-cycle parameters of African bollworm, *Helicoverpa armigera* (Hubner)(Lepidoptera: Noctuidae) affected by neem, *Azadirachta indica* (A. Juss) extracts. Agricultural Science Research Journal 2: 335-345.
- **Wondafrash M**, Getu E & Terefe G (2012b) Neem, Azadirachta indica (A. Juss) Extracts Negatively Influenced Growth and Development of African Bollworm, *Helicoverpa armigera*(Hubner)(Lepidoptera: Noctuidae). Academic Journal of Entomology 5: 22-27
- **Wondafrash M**, Getu E & Terefe G (2012c) Survival and Feeding of African Bollworm, *Helicoverpa armigera*(Hubner)(Lepidoptera: Noctuidae) Affected by Neem, *Azadirachta indica*(A. Juss) Extracts. World Journal of Agricultural Sciences 8: 280-285.

# Views and popular articles

- NNanduleni M, **Wondafrash M**, Gabayi M, Paap T (2021) Battle to save iconic silver trees. *Veld & Flora*.
- **Wondafrash M**, Paap T (2020) The vital role of botanical gardens in biosecurity. Wood Southern Africa & Timber Times.

## **Pest Risk Analysis**

Wondafrash M. 2020. Risk analysis of Cypress aphid, Cinara cupressi in South Africa.

#### **Podcast**

Botanical gardens: why we need them and how they can also pose a risk. <a href="https://bit.ly/3qFuTO9">https://bit.ly/3qFuTO9</a>

#### Pest and disease surveys

- Wattle, *Eucalyptus* and *Moringa* pests and diseases survey in Ethiopia, November 2022
- Wattle pests and diseases survey II in Ethiopia, July 2022
- Wattle pests and diseases survey I in Ethiopia, March 2022
- Plant health surveys in ten botanic gardens across South Africa, 2019, 2020, 2021
- Eucalyptus insect pest survey in Ethiopia, 2018
- Eucalyptus insect pest survey in Ghana, 2018
- Eucalyptus insect pest survey in Sierra Leone, 2018

• Eucalyptus insect pest survey in Zimbabwe, 2017

# **Presentations at conferences/meetings**

- **Wondafrash M**, Slippers B, Garnas J, Hurley BP. Ecology and diversity of introduced *Pissodes* (Coleoptera: Curculionide) in South Africa. White Pine Weevil Management and Tree Improvement Workshop (virtual). 03-04 November 2021.
- Wondafrash M, Slippers B, Asfaw BA, Makowe IA, Jenya H, Bush S, Kayumba I, Nambazimana A, van der Lingen S, Hurley BP. Tracing the distribution of natural enemies of non-native Eucalyptus insect pests in sub-Saharan Africa. 22nd Congress of the Entomological Society of Southern Africa, 28 June to 1 July 2021, Tshipise, South Africa (Poster presentation)
- **Wondafrash M**, Wingfield MJ, Slippers B, Hurley BP, Hulbert JM, Wilson JR, Paap T. The value of botanical gardens to biosecurity and plant health research in South Africa. National Symposium on Biological Invasions, 5-7 May 2021, Grahamstown, South Africa (Oral presentation).
- Katayumane A, Hurly BP, Slippers B, **Wondafrash M**, Malan A (2019) Patterns and mechanisms of susceptibility of white grubs to South Africa's entomopathogenic nematodes. Entomological Society of Southern Africa (ESSA) 21 Congress, 08-11 July, Umhlanga, South Africa (Poster presentation)
- **Wondafrash M**, Slippers B, Nambazimana A, Kayumba I, Nibouche S, van der Lingen S, Asfaw BA, Jenya H, Mutitu EK, Makowe IA, Chungu D, Kiwuso P, Kulimushi E, Razafindrakotomamonjy A, Bosu PP, Sookar P & Hurley BP (2019). Distribution and diversity of invasive pests of *Eucalyptus* in sub-Saharan Africa. Entomological Society of Southern Africa (ESSA) 21 Congress, 08-11 July, Umhlanga, South Africa (Oral presentation)
- Wondafrash M, Slippers B & Hurley BP (2018) Diversity and distribution of *Eucalyptus* insect pests and their natural enemies in sub-Saharan Africa. Eucalyptus Insect Pest Project in Africa (EIPPA). The 29<sup>th</sup> Annual Meeting of the Tree Protection Cooperative Programme (TPCP) and the DST-NRF Centre of Excellence in Tree Health Biotechnology (CTHB). The University of Pretoria, 16-18 May, Pretoria, South Africa (Oral presentation)
- Wondafrash M, Slippers B, Garnas J & Hurley BP (2017) Novel natural enemy encounters of an invasive forest insect pest. The 2017 Combined Congress of the Entomological Society of Southern Africa and the Zoological Society of Southern Africa, 03-07 July, Pretoria, South Africa (Oral presentation)
- **Wondafrash M**, Slippers B, Garnas J & Hurley BP (2016) Interactions between two invasive insect species co-occurring on non-native pine trees. XXV International Congress of Entomology, 25-30 September, Orlando, USA (Oral presentation)
- **Wondafrash M**, Slippers B, Garnas J & Hurley BP (2016) Ecology and diversity of introduced *Pissodes* (Coleoptera, Curculionidae) in South Africa. The 27<sup>th</sup> Annual Meeting of the Tree Protection Co-operative Programme (TPCP) and the DST-NRF Centre of Excellence in Tree Health Biotechnology (CTHB). The University of Pretoria, 16-18 May, Pretoria, South Africa (Oral presentation)

- **Wondafrash M**, Garnas J, Slippers B & Hurley BP (2015) The deodar weevil, *Pissodes nemorensis* Germar, in South Africa: Identity and diversity. The 19<sup>th</sup> Congress of the Entomological Society of Southern Africa and the 37<sup>th</sup> Congress of the Zoological Society of Southern Africa, 12-17 July, Grahamstown, South Africa (Oral presentation)
- **Wondafrash M**, Slippers B, Garnas J & Hurley BP (2014) The pine weevil in South Africa: Identity and diversity. The 25<sup>th</sup> Annual Meeting of the Tree Protection Co-operative Programme (TPCP) and the DST-NRF Centre of Excellence in Tree Health Biotechnology (CTHB). The University of Pretoria, 12-14 May, Pretoria, South Africa (Oral presentation)
- Hurley BP, **Wondafrash M**, Garnas J & Slippers B (2014) The genetic diversity of the deodar weevil, *Pissodes nemorensis* Germar (Coleoptera: Curculionidae) in its introduced range in South Africa. International Union of Forest Research Organizations (IUFRO), 5-11 October, Salt Lake City, UT, USA. (Poster presentation)
- Rasulova MF, **Wondafrash M**, Braeckman BP, Moens T & de Goede RGM (2012) Can nematode community analysis help students to understand the concept of bioindicators using a short-term experiment? The 2<sup>nd</sup> International Symposium on Nematodes as Environmental Bioindicators, 5-6 July, Ghent, Belgium (Poster presentation)

# **Workshops hosted**

Training Workshop in plant health II. Durban University of Technology, 17-19 August 2021. Training Workshop in plant health I. Durban University of Technology, 24-26 May 2021.

#### **Webinars hosted**

Wondafrash M & Paap T (2020). Plant health in botanical gardens. 28 July 2020.

## Trainings and workshops attended

- Training course on Environmental Impact Classification for Alien Taxa (EICAT), Organized by the South African Biodiversity Institute (SANBI), Virtual, 2021.
- Risk Analysis Course, South African Biodiversity Institute, Pretoria, South Africa, 2019
- Introductory Training to ArcMap, South African Biodiversity Institute, Pretoria, South Africa, 2019
- Shothole Borer (SHB) Workshop, FABI-CABI, University of Pretoria, South Africa, 2018
- TUKS Young Research Leader Program Workshop, University of Pretoria, South Africa, 2018
- Mass-rearing of Insects Workshop, Department of Conservation Ecology and Entomology, Stellenbosch University, South Africa, 2017
- Microsoft 2013 Advanced Editing Workshop, University of Pretoria, South Africa, 2015
- Advanced Phylogenetics Workshop, University of Pretoria, South Africa, 2014
- Introductory Microsatellite Workshop, University of Pretoria, South Africa, 2013
- Crop Growing and Cropping Systems Modelling Workshop, Haramaya University, Ethiopia, 2009
- SAS and GenStat Training, Haramaya University, Ethiopia, 2008
- Basic training on principles of biometrics and computer software and SAS computer program, Ethiopian Agricultural Research Organization (EARO), Ethiopia, 2006

- Biometrics in Agriculture, Ethiopian Biometrics Society and Addis Ababa University, Ethiopia, 2005
- SAS Software and Basic Biometrical Methods Workshop, Werer Agricultural Research Centre, Ethiopia, 2003

# Other scientific meetings attended

- 5<sup>th</sup> Ecogenomics day of the Netherlands, Ecogenomics Research Organization (NERO), NIOO-KNAW, Wageningen, The Netherlands, 2012
- NWO-ALW meeting of Experimental Plant Sciences, Luntern, The Netherlands, 2012
- 64<sup>th</sup> International Symposium of Crop Protection, Ghent, Belgium, 2012
- 63<sup>th</sup> International Symposium of Crop Protection, Ghent, Belgium, 2011

#### **Professional services**

- Organized and hosted training workshops for horticulture students at Durban University of Technology. Durban, South Africa, 2021.
- Presented on insect pests and diseases of commercial forest crops and networking in Africa', Shothole Borer (SHB) Workshop, FABI-CABI, University of Pretoria, Pretoria, South Africa, 2018
- Assisted with practical sessions, Biological Control of Eucalypt Insect Pests Workshop, Forestry and Agricultural Biotechnology Institute (FABI), University of Pretoria, Pretoria, South Africa, 2015
- Trained crop protection practitioners about "Botanical Insecticides" and "Methods of Insect Rearing", Crop protection Practitioners Workshop, Haramaya University, Haramaya, Ethiopia, 2010
- Trained growers how to identify and manage insect pests of groundnut, Babile, Ethiopia, 2009
- Trained junior researchers on "Identification of major insect pests of cotton, sesame and groundnut and their management", Tigray Region Agricultural Research Institute, Mekele, Ethiopia, 2005

## Visits to universities and research institutes

- Department of Conservation Ecology and Entomology, Stellenbosch University, Stellenbosch, South Africa, 2017
- Department of Ecogenomics, Radboud University Nijmegen, Nijmegen, The Netherlands, 2011
- E-nema Biocontrol Company, Kiel, Germany, 2011
- Department of Biotechnology and Biological Control, Christian-Albrechts-Universität zu Kiel, Kiel, Germany, 2011
- Julius Kuhn Institute, Institute for Epidemiology and Pathogen Diagnostics, Munster, Germany, 2011
- Institute of Crop Science and Resource Protection, Bonn University, Bonn, Germany, 2011
- Nematology Laboratory, Wageningen University, Wageningen, The Netherlands, 2011

- Applied Plant Research, Wageningen UR, Lelystad, The Netherlands, 2011
- Plant Research International, Wageningen UR, Wageningen, The Netherlands, 2011Koppert Biological System, Berkel en Rodenrijs, The Netherlands, 2011

# **Manuscript review**

- Journal of Economic Entomology
- International Journal of Pest Management
- Frontiers in Plant Science
- Royal Society Open Science

# **Professional membership**

- Ethiopian Professionals Association in Southern Africa (EthPASA), 2018 present
- Entomological Society of Southern Africa (ESSA), 2017 present
- British Ecological Society (BES), 2017 present
- Plant Protection Society of Ethiopia (PPSE), 2004 2012

# Leadership and administrative contributions

- Laboratory Manager, Forestry and Agricultural Biotechnology Institute (FABI), University of Pretoria, South Africa (January December 2017)
- Deputy Coordinator, Summer In-service Program, Haramaya University, Ethiopia, 2009 2010
- Academic Coordinator, School of Plant Sciences, Haramaya University, Ethiopia, 2008 -2009
- Head, Entomology Research Division, Werer Agricultural Research Center, Ethiopia, 2004
   2005

## **Participation in committees**

- Social club, Forestry and Agricultural Biotechnology Institute (FABI), University of Pretoria, South Africa, 2016
- Curriculum review committee, School of Plant Sciences, Haramaya University, Ethiopia, 2009
- Staff recruitment committee, Werer Agricultural Research Center, Ethiopia, 2005
- Farm Planning Committee, Werer Agricultural Research Center, Ethiopia, 2005
- Publication Committee, Werer Agricultural Research Centre, Ethiopia, 2003-2005

# Awards and scholarships

- South African National Biodiversity Institute (SANBI) Postdoctoral Research Fellowship Award, 2019 2020
- University of Pretoria Postdoctoral Research Fellowship Award, 2017 2018
- National Research Foundation (South Africa) Innovation Doctoral Scholarship Award, 2014 – 2015

- University of Pretoria Postgraduate Bursary Award, 2013
- European Union Education and Culture Director General (Erasmus Mundus) Scholarship Award, 2010 2012
- Ghent University dean's list, Highest Distinction (MSc. Nematology), 2012
- Addis Ababa University dean's list, Highest Distinction (MSc. Insect Sciences), 2007
- Alemaya University dean's list, Distinction (BSc. Plant Sciences), 2002

### Referees

- Professor Brett Hurley, Department of Zoology and Entomology, Forestry and Agricultural Biotechnology Institute (FABI), University of Pretoria, South Africa Email: <a href="mailto:Brett.Hurley@fabi.up.ac.za">Brett.Hurley@fabi.up.ac.za</a>, Tel: +27 (12) 420-3939/3939, Fax: +27 (12) 420-3960
- Professor Bernard Slippers, Dept. of Genetics, Forestry and Agricultural Biotechnology Institute (FABI), University of Pretoria, South Africa
   Email: <a href="mailto:Bernard.Slippers@fabi.up.ac.za">Bernard.Slippers@fabi.up.ac.za</a>, Tel: +27(12)420-3939/3939, Fax: +27(12)420-3960
- Professor Mike John Wingfield, Advisor to the Executive of the University of Pretoria, Forestry and Agricultural Biotechnology Institute (FABI), President of International Union of Forestry Research Organizations (IUFRO), University of Pretoria, South Africa Email: <a href="mike.wingfield@fabi.up.ac.za">mike.wingfield@fabi.up.ac.za</a>, Tel: +27(12)420-3939/3939, Fax: +27(12)420-3960

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