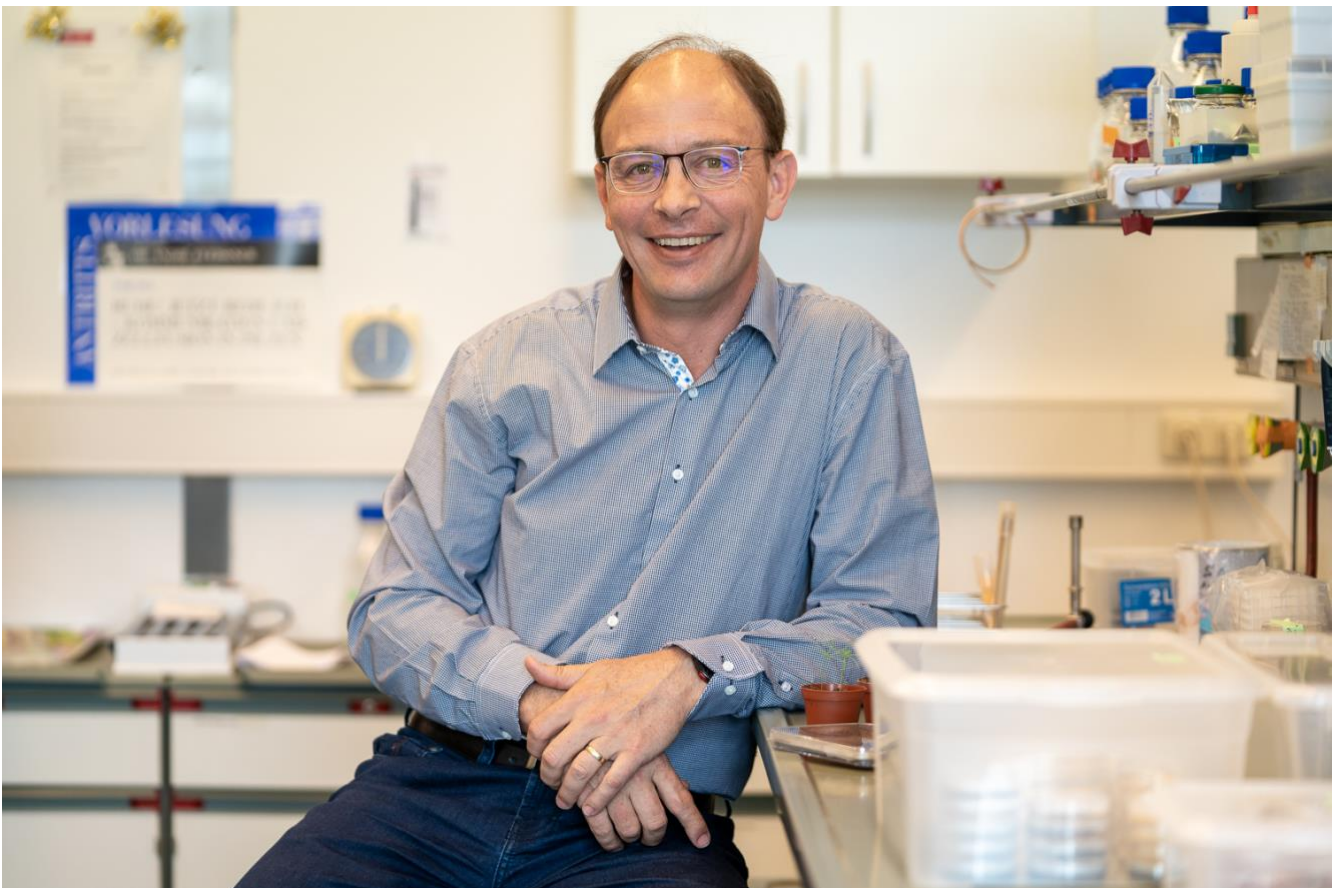


# **BERNARD SLIPPERS**



## ***CURRICULUM VITAE***

UNIVERSITY OF PRETORIA

**1. BIOGRAPHICAL SKETCH**

1.1 GENERAL INFORMATION								
<b>Surname</b>	Slippers							
<b>First names</b>	Bernard		<b>ID Number</b>	7205205044082				
<b>Citizenship</b>	South African		<b>Title</b>	Prof	<b>Female</b>	<input type="checkbox"/>	<b>Male</b>	<input checked="" type="checkbox"/>
<b>Place of birth</b>	Walvisbay, Namibia		<b>Date of birth</b>	1972-05-20				
<b>Department</b>	Forestry and Agricultural Biotechnology Institute (FABI), Biochemistry, Genetics and Microbiology		<b>Position</b>	Professor				
<b>Direct Telephone</b>	+27-12-4203938		<b>Direct Telefax</b>	+27-12-4203960				
<b>1. E-mail</b>	Bernard.slippers@fabl.up.ac.za							
<b>Date of appointment</b>	09-2005		<b>Permanent full-time</b>	<input checked="" type="checkbox"/>	<b>Temporary full-time</b>	<input type="checkbox"/>		

1.2 ACADEMIC QUALIFICATIONS OBTAINED				
Degree/ Diploma	Field of study	Higher education institution	Year	Distinctions
BSc	Microbiology and Biochemistry	University of the Free State	1994	Microbiology and Biochemistry
BSc Hons	Microbiology	University of the Free State	1995	Yes
MSc	Microbiology	University of the Free State	1999	Yes
PhD	Microbiology and Plant Pathology	University of Pretoria	2003	N/A

<b>1.3 WORK EXPERIENCE TO DATE</b>		
<b>Name of employer</b>	<b>Capacity and/or type of work</b>	<b>Period</b>
Swedish University of Agricultural Sciences	Post-doctoral Fellow	09-2003 to 08-2005
University of Pretoria	Temporary Full-time Senior Lecturer	09-2005 to 06-2006
University of Pretoria	Full-time Senior Lecturer	07-2006 to 12-2008
University of Pretoria	Head of Boekenhout Residence	02-2008 to 08-2014
University of Pretoria	Associate Professor	01-2009 to 12-2012
University of Pretoria	Professor, Department of Biochemistry, Genetics and Microbiology (formerly Genetics)	01-2013 to present
University of Pretoria	Head of TuksVillage Residence	02-2016 to 06-2018
University of Pretoria	Director of the Forestry and Agricultural Biotechnology Institute (FABI)	01-2018 to present
University of Pretoria	Project leader and founding Director: Future Africa Institute	04-2014 to 09-2019
University of Pretoria	Project leader and founding Director: Innovation Africa @UP	09-2019 to present

## 2. TEACHING ACTIVITIES

<b>2.1 Courses presented</b>		
<b>Course</b>	<b>Level (e.g. second year, Masters)</b>	<b>Self-developed (Yes or No)</b>
Genetic manipulation and analysis – population genetics module (GTS261)	BSc second year	Partially
Molecular Phylogenetics and Evolution (GTS363)	BSc third year	Partially
Scientific writing	BSc Hons and postgraduate groups in general	Yes
Philosophy of Science	BSc Hons	Partially
Insect – fungal interactions (MBY352) (partial)	BSc second year	Yes
Guest lectures in courses in Microbiology and Entomology	BSc and BSc Hons	Yes
Student-supervisor relationship, time management, life-long	Various post-graduate groups	Yes

learning and other topics related to postgraduate studies		
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### 3. POSTGRADUATE AND POSTDOCTORAL SUPERVISION

#### Completed postgraduate supervisions:

Name of student	Degree/Title of dissertation/ thesis	Supervisor	Co-supervisor(s)
Rene Jacobs	<b>MSc</b> / <i>Botryosphaeria</i> diseases affecting Mango in South Africa	L Korsten	B Slippers MJ Wingfield
Carlos Rodas	<b>MSc</b> / Diseases of <i>Eucalyptus</i> in Colombia with special reference to <i>Botryosphaeria</i> spp.	MJ Wingfield	B Slippers M Gryzenhout
Draginja Pavlic	<b>MSc</b> / Ecology of <i>Botryosphaeria</i> spp. on exotic and indigenous Myrtaceae in South Africa	MJ Wingfield	B Slippers TA Coutinho
Happy Maleme	<b>MSc</b> / <i>Botryosphaeriaceae</i> affecting <i>Eucalyptus</i> spp. planted for feeding Koala bears in the Pretoria zoo	B Slippers	MJ Wingfield BD Wingfield D Pavlic
Francois van der Walt	<b>MSc</b> / <i>Botryosphaeriaceae</i> on <i>Acacia</i> species	G Marais	B Slippers J Roux MJ Wingfield
Kerry-Anne Pillay	<b>MSc</b> / Diversity of endophytic fungi of <i>Eucalyptus</i>	M Gryzenhout	B Slippers MJ Wingfield
Angelica Marsberg	<b>MSc</b> / Diversity and distribution of fungal endophytes associated with native <i>Syzygium cordatum</i> in South Africa	M Gryzenhout	B Slippers MJ Wingfield
Marc Bouwer	<b>MSc</b> / Chemical ecology of the <i>Gonipterus scutellatus-Eucalyptus</i> interaction	E Rohwer	B Slippers MJ Wingfield
Osmond Mlonyeni	<b>MSc</b> / Population genetics of <i>Sirex noctilio</i> and <i>Deladenus siricidicola</i>	B Slippers	BD Wingfield MJ Wingfield
Jan Nagel	<b>MSc</b> / Species of <i>Phytophthora</i> associated with native ecosystems in Gauteng	M Gryzenhout	B Slippers MJ Wingfield
Zander Human	<b>MSc</b> / Actinomycete bacteria associated with forest insects	MJ Wingfield	F Venter W de Beer B Slippers
Linda Ndove	<b>MSc</b> / <i>Botryosphaeriaceae</i> associated with <i>Podocarpaceae</i> in South Africa	B Slippers	MJ Wingfield E de Meyer
Caryn Oates	<b>MSc</b> / Genetics of host response to <i>Leptocybe invasa</i>	S Naidoo	B Slippers Z Myburg
Amy Wooding	<b>MSc</b> / Sex determination and symbiont transmission in the <i>Sirex-Amylostereum</i> mutualism	B Slippers	J Garnas B Hurley J Greeff

			MJ Wingfield W de Beer
Herman de Bruin	<b>MSc</b> / Entomopathogens affecting tree pests in South Africa	B Slippers	
Lerato Maubane	<b>MSc</b> / Pine needle fungal endophytes including species of <i>Lophodermium</i>	M Gryzenhout	B Slippers MJ Wingfield
Kwabena Baffoe	<b>MSc</b> / <i>Leptocybe invasa</i> : The prospects of host plant resistance and biological control	BP Hurley	B Slippers MJ Wingfield
Caitlin Botha	<b>MSc</b> / The genetics of sexual reproduction in a Basidiomycete, <i>Amylostereum areolatum</i>	B Slippers	M Coetzee MA van der Nest
Edohan Clasen	<b>MSc</b> / Horizontal gene transfer and evolution of symbiosis	B Slippers	O Reva R Pierneef A Postma
Samantha Bush	<b>MSc</b> / Biology and management of <i>Glycaspis</i> in South Africa	BP Hurley	B Slippers
Bianca Rodriguez Jardim	<b>MSc</b> / Manipulation of mating systems for control of invasive Hymenoptera	B Slippers	W Fick A Postma
Kayla Noeth	<b>MSc</b> / Biology and management of <i>Coryphodema tristis</i>	B Hurley	B Slippers
Caitlin Gevers	<b>MSc</b> / The insect community associated with <i>Leptocybe</i> galls	B Hurley	B Slippers G Dittrich
Luki-Marie Scheepers	<b>MSc</b> / Pheromones of selected plantation pests	E Rohwer	B Slippers M Bouwer
Mathew Harris	<b>MSc</b> / Fungal diversity and phylogeography in Africa	M Greve	B Slippers M Kemler
Lomile Khoete	<b>MSc</b> / The diversity of <i>Gonipterus</i> sp. 2 and its biological control agent, <i>Anaphes nitens</i> , in South Africa	Martin Coetzee	B Slippers B Hurley I Barnes M Schroder
Jolene Kotze (University of the Free State)	<b>MSc</b> / Botryosphaeriaceae on pecans in South Africa	Gert Marais	M Gryzenhout B Slippers
Ashleigh Smith	<b>MSc</b> / Genetic characterisation of moth species in the Macadamia nut borer complex	G Fourie	B Hurley B Slippers
Sophia Makua	<b>MSc</b> / The genetics of the <i>Sirex noctilio</i> response to infection by <i>Deladenus siricidicola</i>	B Slippers	MPA Coetzee A Postma
Leandri Bezuidenhout	<b>MSc</b> / Genetics of chemical communication in <i>Sirex noctilio</i>	B Slippers	T Duong J Allison
Zorada Swart	<b>MSc</b> / Genetics of parasitism in <i>Deladenus siricidicola</i>	B Slippers	T Dong B Wingfield
Sumari Venter	<b>MSc</b> / Genetics of parasitism in <i>Deladenus siricidicola</i>	B Slippers	A Postma T Duong
Lihan Esterhuizen	<b>MSc</b> / Spectral analysis of <i>Teratosphaeria destructans</i> infection	A Hammerbacher	B Slippers
Preston Shaw	<b>MSc</b> / <i>Ceratocystis</i> genomics	T Duong	B Slippers B Wingfield
Elmarie van der Merwe	<b>MSc</b> / Rearing and gene editing of <i>Sirex noctilio</i>	G Dittrich Schroder	B Slippers
Jade Ashmore	<b>MSc</b> / Genomics and gene editing of <i>Gonipterus</i> sp. n2	G Dittrich-Schroder	B Slippers T Duong
Marizanne Jones	<b>MSc</b> / Biological control of <i>Gonipterus</i> sp. n2	M Schroder	B Slippers B Hurley

Sari Mohali	<b>PhD</b> / Taxonomy and biology of <i>Botryosphaeria</i> sp. affecting <i>Eucalyptus</i> and other commercially important woody plants from Venezuela	MJ Wingfield	B Slippers
Draginja Pavlic	<b>PhD</b> / Taxonomy and population biology of <i>Botryosphaeriaceae</i> infecting native and introduced Myrtales	B Slippers	MJ Wingfield TA Coutinho
Ryan Nadel	<b>PhD</b> / Molecular and chemical ecology of <i>Thaumastocoris peregrinus</i> , the <i>Eucalyptus</i> host and its parasites	B Slippers	M Scholes MJ Wingfield
Brett Hurley	<b>PhD</b> / Factors that influence the control of the <i>Sirex noctilio</i> woodwasp	B Slippers	MJ Wingfield
Alvaro Duran	<b>PhD</b> / Pine Needle Disease of <i>P. radiata</i> in Chile	MJ Wingfield	B Slippers M Gryzenhout BD Wingfield
Didier Begoude	<b>PhD</b> / Botryosphaeriaceae infecting native and non-native Terminalia	J Roux	B Slippers MJ Wingfield
Guillermo Perez	<b>PhD</b> / Biology and population dynamics of <i>Mycosphaerella</i> spp. infecting <i>Eucalyptus</i>	MJ Wingfield	B Slippers BD Wingfield
Wubetu Bihon	<b>PhD</b> / Biology and population dynamics of <i>Diplodia pinea</i> infecting <i>Pinus</i> spp.	BD Wingfield	B Slippers MJ Wingfield TI Burgess
Magriet van der Nest	<b>PhD</b> / Compatibility and mating in <i>Amylostereum</i>	BD Wingfield	B Slippers MJ Wingfield
Rodrigo Ahumada	<b>PhD</b> / Diseases of <i>P. radiata</i> in Chile	MJ Wingfield	B Slippers
Fahimeh Jami	<b>PhD</b> / Taxonomy and ecology of the Botryosphaeriaceae associated with <i>Acacia karoo</i> in South Africa	M Gryzenhout	B Slippers MJ Wingfield
Dawit Degefu	<b>PhD</b> / Biology and biological control of <i>Coryphodema tristis</i>	B Slippers	B Hurley J Garnas MJ Wingfield
Gudrun Dittrich-Schroder	<b>PhD</b> / Molecular ecology of <i>Leptocybe invasa</i> (Hymenoptera: Eulophidae) and its biological control agent in South Africa	B Slippers	MJ Wingfield BP Hurley
Marc Bouwer	<b>PhD</b> / Chemical communication of key forest pests in South Africa	E Rohwer	B Slippers
Elsie Cruywagen	<b>PhD</b> / Diversity, ecology and pathology of fungi infecting <i>Adansonia</i> (Baobab)	MJ Wingfield	B Slippers J Roux
Milica Zlatkovic (University of Belgrade)	<b>PhD</b> / Botryosphaeriaceae, diverse hosts and climate change in the Western Balkans	N. Keca	B Slippers
Eston Mutitu	<b>PhD</b> / The biological control of <i>Thaumastocoris peregrinus</i> using <i>Cleruchoides noacke</i>	B Slippers	JR Garnas BP Hurley MJ Wingfield
Birhan Abate	<b>PhD</b> / Diveristy of Entomopathogenic nematodes	BP Hurley	B Slippers MJ Wingfield
Mesfin Gossa	<b>PhD</b> / Ecology, diversity and management of Deodar Weevil, <i>Pissodes nemorensis</i> (Coleoptera: Curculionidae) in South Africa	BP Hurley	B Slippers JR Garnas

James Mehl	<b>PhD</b> / Evolutionary ecology of <i>Botryosphaeria</i> endophytes and pathogens	MJ Wingfield	B Slippers J Roux
X. Osmond Mlonyeni	<b>PhD</b> / Evolutionary genetics of the entomoparasitic nematode, <i>Deladenus siricidicola</i>	B Slippers	BD Wingfield J Greeff MJ Wingfield
Jan Nagel	<b>PhD</b> / Causes and consequences of speciation within the <i>Neofusicoccum parvum/ribis</i> complex	B Slippers	MJ Wingfield
Katrin Fitza	<b>PhD</b> / The diversity and specificity of the <i>Deladenus siricidicola</i> - <i>Sirex noctilio</i> - <i>Amylostereum areolatum</i> complex	B Slippers	J Garnas
Quentin Guignard	<b>PhD</b> / <i>Sirex</i> chemical and visual ecology	J Allison	B Slippers
Josephine Queffelec	<b>PhD</b> / <i>Sirex</i> mating biology	B Slippers	J Allison J Greeff
Yosef Hamba Tola	<b>PhD</b> / Gut microbiota of African bees	J Parades	B Slippers
Agil Katumanyane	<b>PhD</b> / Entomopathogenic Nematodes in the management of plantation forestry pests	B Hurley	B Slippers
Nombuso Ngubane	<b>PhD</b> / Endophytic fungi in native and introduced Oleaceae in South Africa	F Roets	B Slippers L Dreyer
Mandy Messal	<b>PhD</b> / Endophyte-host interaction	B Slippers	M Kemler S Naidoo
Elisa Pal	<b>PhD</b> / The chemical ecology of stink bugs in Macadamia	G Fourie	B Slippers J Allison B Hurley
Privilege Makunde	<b>PhD</b> / Hemiptera affecting forestry in Southern Africa	B Hurley	B Slippers
Firehiwot Eshetu	<b>PhD</b> / <i>Sirex</i> - <i>Amylostereum</i> - <i>Deladenus</i> microevolution in invasive populations	B Slippers	I Barnes
GuoQing Li	<b>PhD</b> / The <i>Botryosphaeriaceae</i> affecting Eucalyptus plantation forestry in China	S Chen	B Slippers MJ Wingfield
Harmen Barten	<b>PhD</b> / The genetics of biological control adaptation in <i>Gonipterus</i> parasitoids, <i>Anaphes nitens</i>	B Hurley	B Slippers M Schröder

#### Ongoing postgraduate supervisions:

Name of student	Project title	Supervisor	Co-supervisor(s)
Hannes Strydom	<b>MSc</b> / Modeling the spread of gene drives in invasive pest populations	B Slippers	M Chapwanya M Yusuf
Matthew Jackson	<b>MSc</b> / Population genetics and gene editing of <i>Spodoptera frugiperda</i>	B Slippers	B Hurley K Kruger
Kyle Leeuwendaal	<b>MSc</b> / Next generation pathogen diagnostics	L de Vos	B Slippers B Wingfield
Christiaan Grobler	<b>MSc</b> / Functional analysis of chemosensory genes of <i>Sirex noctilio</i>	B Slippers	T Duong

Alisa Postma	<b>PhD</b> / Genomics of <i>Sirex-Amylostereum-Deladenus</i>	B Slippers	F Joubert MJ Wingfield
Mathew Harris	<b>PhD</b> / Fungal diversity and phylogeography in grasses	M Greve	B Slippers M Kemler
Elelwani Ramabulana (University of Venda)	<b>PhD</b> / Diversity and species overlap of Botryosphaeriaceae on some Anacardiaceae in agricultural and natural systems in South Africa	E Kunjoku	M Coetzee B Slippers
Angel Maduke	<b>PhD</b> / Macadamia flower, twig and nut diseases	G Fourie	M Wingfield B Slippers
Pfano Mbedzi	<b>PhD</b> / Population genetics and gene editing of <i>Busseola fusca</i>	B Slippers	B Hurley
Phophi Nethonondo	<b>PhD</b> / Biological control of <i>Spodoptera frugiperda</i>	B Slippers	B Hurley
Luki-Marie Scheepers	<b>PhD</b> / Pheromones of selected plantation pests	J Allison	B Slippers E Rohwer
Samkelisiwe Thango	<b>PhD</b> / Multiperspective analysis of <i>Exserohilum tericum</i> infection development	B Slippers	D Nsibo D Berger C Visagie
Caitlin Gevers	<b>PhD</b> / The insect community associated with <i>Leptocybe</i> galls	B Hurley	B Slippers
Ndamulelo Nengovhela	<b>PhD</b> / Response of Soybean varieties to bollworm feeding	A Hammerbacher	B Slippers
Vaylen Hlaka	<b>PhD</b> / Diversity and distribution of Aphids and their associated viruses in SA	L De Vos	B Slippers D Read
Heike Moller	<b>PhD</b> / <i>Botryosphaeriaceae</i> on Avocado	N van den Berg	B Slippers
Pilar Hemmelmann	<b>PhD</b> / <i>Diplodia sapinea</i> biology and blue stain in Chile	B Slippers	R Ahumada
Anika Keuck	<b>PhD</b> / Microbiomics and pest dynamics in an establishing <i>Eucalyptus</i> plantation	D Drew	B Slippers F Roets

### Completed Postdoctoral and Research Fellow supervisions

Marieka Gryzenhout	Diversity of tree endophytes	B Slippers	MJ Wingfield
Emilie Boissin	Global spread of <i>Sirex noctilio</i>	B Slippers	
Sze Huei Yek	Genomics of <i>Sirex-Deladenus</i> interaction	B Slippers	
Martin Kemler	Diversity and phylogeography of tree infecting endophytes	B Slippers	MJ Wingfield
Maria Vivas	The influence of maternal effects on tree infecting endophytes	B Slippers	MJ Wingfield
Sandra Heinzemann	Nutrition and specificity of <i>Sirex noctilio</i>	B Slippers	A Hammerbacher B Hurley
Kennedy Eguzozie	Chemical ecology of sugarcane insect pests	B Slippers	M Bouwer
Fahimeh Jami	<i>Botryosphaeriaceae</i> in Southern Africa	MJ Wingfield	B Slippers P Crous
Gerda Fourie	Macadamia Protection Programme	B Slippers	B Hurley
Marc Bouwer	Chemical ecology of plantation forest insect pests	B Slippers	MJ Wingfield E Rohwer



David Nsibo	Disease of maize in South Africa	B Slippers	C Visagie
Godfrey Gatle	Foliar diseases of maize in South Africa	C Visagie	B Slippers ET Steenkamp
Olabimpe Orubuloye	Chemical ecology of plantation forest insect pests	J Allison	B Slippers B Hurley
Jan Nagel	Genomics of the Botryosphaeriaceae	B Slippers	MJ Wingfield
Agil Katumanyane	Entomopathogenic nematodes in the management of plantation forestry pests	B Hurley	B Slippers
Katrin Fitza	Evolution of Siricid- <i>Amylostereum</i> symbiosis	B Slippers	J Allison
Mesfin Gossa	The distribution of forest plantation pests and their biological control agents in Africa	B Hurley	B Slippers
Michelle Schröder	Ecology and biological control of <i>Gonipterus</i> spp.	B Hurley	B Slippers
Neriman Yilmaz	<i>Fusarium</i> species of Southern Africa	P Crous	MJ Wingfield B Slippers

### Ongoing Postdoctoral and Research Fellow supervisions

Gudrun Dittrich-Schroder	Molecular ecology of forest pest invasions	B Slippers	B Hurley MJ Wingfield
Privilege Makunde	Management of insect pests in Forestry nurseries	B Hurley	B Slippers

## 3. RESEARCH FUNDING

3.1 Obtaining research funds		
Origin of research funds (e.g. contract research, THRIP, international funding organisations, other(s))	Title of research project or programme	Duration
Sida (Sweden)-NRF	<i>Sirex-Amylostereum</i> interaction	2004-2006, 2010-2012
Forestry SA (as part of TPCP funding)	Sirex, Insect pest control and biocontrol and general forest health research	2005-present
Tree Protection Co-operative Programme	Tree health research linked to the commercial forestry sector	2005-present
THRIP (as part of TPCP funding)	Tree health research	2005-2015

Centre of Excellence in Tree Health Biotechnology; DST-NRF	Tree health research on native trees	2005-2023
Department of Forestry, Fisheries and the Environment	Tree health research	2005-present
NRF competitive grant	Symbiosis and biological control	2010-2012, 2014-2016
USDA Forest Service	Genetics of Sirex biocontrol	2012-2017
Natural Resources Canada	Biology of Sirex	2015-2022
Australian Sirex Control Program	Invasion history and management of Sirex	2016-2022
Future Africa; University of Pretoria, Bosch, Carnegie, Microsoft, others	Transdisciplinary Research & Leadership for Innovation	2015-present
Innovation Africa @UP, University of Pretoria	Development of an experimental farm and industry-government University innovation platform	2020-present
SA National Seed Organization, GrainSA, Maize Trust, Bayer, Syngenta	Various grants to develop a grain diagnostic clinic, sentinel plot, Lepidoptera resistance research and monitoring	2020-present
Department of Science and Innovation	Plant micro-phenotyping and next generation multigene diagnostics	2024-2025
Technology Innovation Agency	Development of Information Hub App and data management platform	2020-present
Various	Smaller grants linked to academic meeting, sabbatical, smaller research projects, etc	Continuous

## 4. RESEARCH OUTPUTS

### 4.1 Publications in peer-reviewed or refereed journals

Slippers B, Wingfield MJ, Wingfield BD, Coutinho TA. 2000. Relationships among *Amylostereum* species associated with Siricid woodwasps inferred from mitochondrial ribosomal DNA sequences. *Mycologia* 92, 955-963.

Meyer L, Slippers B, Korsten L, Kotzé JM, Wingfield MJ. 2001. Two distinct *Guignardia* species associated with citrus in South Africa: research letter. *South African Journal of Science* 97, 191-194.

Slippers B, Wingfield MJ, Coutinho TA, Wingfield BD. 2001. Population structure and possible origin of *Amylostereum areolatum* in South Africa. *Plant Pathology* 50, 206-210.

- Wingfield MJ, Slippers B, Roux J, Wingfield BD. 2001. Worldwide movement of exotic forest fungi, especially in the Tropics and the Southern Hemisphere. *Bioscience* 51, 134-140.
- Slippers B, Wingfield BD, Coutinho TA, Wingfield MJ. 2002. DNA sequence and RFLP data reflect relationships between *Amylostereum* species and their associated wood wasp vectors. *Molecular Ecology* 11, 1845-1854.
- De Wet J, Burgess T, Slippers B, Preisig O, Wingfield BD, Wingfield MJ. 2003. Multiple gene genealogies and microsatellite markers reflect relationships between morphotypes of *Sphaeropsis sapinea* and distinguish a new species of *Diplodia*. *Mycological Research* 107, 557-566.
- Denman S, Crous PW, Groenewald JZE, Slippers B, Wingfield BD, Wingfield MJ. 2003. Circumscription of *Botryosphaeria* species associated with Proteaceae based on morphology and DNA sequence data. *Mycologia* 95, 294-307.
- Slippers B, Coutinho TA, Wingfield BD, Wingfield MJ. 2003. A review of the genus *Amylostereum* and its association with woodwasps. *South African Journal of Science* 99, 70-74.
- Gezahgne A, Roux J, Slippers B, Wingfield MJ. 2004. Identification of the causal agent of *Botryosphaeria* stem canker in Ethiopian Eucalyptus plantations. *South African Journal of Botany* 70, 241-248.
- Pavlic D, Slippers B, Coutinho TA, Gryzenhout M, Wingfield MJ. 2004. *Lasiodiplodia gonubiensis* sp. nov., a new *Botryosphaeria* anamorph from native *Syzygium cordatum* in South Africa. *Studies in Mycology* 50, 313-322.
- Slippers B, Burgess T, Wingfield BD, Crous PW, Coutinho TA, Wingfield MJ. 2004a. Development of simple sequence repeat markers for *Botryosphaeria* spp. with *Fusicoccum* anamorphs. *Molecular Ecology Notes* 4, 675-677.
- Slippers B, Crous PW, Denman S, Coutinho TA, Wingfield BD, Wingfield MJ. 2004b. Combined multiple gene genealogies and phenotypic characters differentiate several species previously identified as *Botryosphaeria dothidea*. *Mycologia* 96, 83-101.
- Slippers B, Fourie G, Crous PW, Coutinho TA, Wingfield BD, Carnegie AJ, Wingfield MJ. 2004c. Speciation and distribution of *Botryosphaeria* spp. on native and introduced Eucalyptus trees in Australia and South Africa. *Studies in Mycology* 50, 343-358.
- Slippers B, Fourie G, Crous PW, Coutinho TA, Wingfield BD, Wingfield MJ. 2004d. Multiple gene sequences delimit *Botryosphaeria australis* sp. nov. from *B. lutea*. *Mycologia* 96, 1030-1041.
- van der Waals JE, Korsten L, Slippers B. 2004. Genetic diversity among *Alternaria solani* isolates from potatoes in South Africa. *Plant Disease* 88, 959-964.
- Barber PA, Burgess TI, Hardy GESJ, Slippers B, Keane PJ, Wingfield MJ. 2005. *Botryosphaeria* species from *Eucalyptus* in Australia are pleoanamorphic, producing *Dichomera* synanamorphs in culture. *Mycological Research* 109, 1347-1363.
- Gure A, Slippers B, Stenlid J. 2005. Seed-borne *Botryosphaeria* spp. from native *Prunus* and *Podocarpus* trees in Ethiopia, with a description of the anamorph *Diplodia rosulata* sp. nov. *Mycological Research* 109, 1005-1014.

- Rodas CA, Lombard L, Gryzenhout M, Slippers B, Wingfield MJ. 2005. *Cylindrocladium* blight of *Eucalyptus grandis* in Colombia. *Australasian Plant Pathology* 34, 143-149.
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#### **4.4 Non-refereed publications or popular articles**

Regular contributions to Wood and Timber Times SA, Afrigriland, Mail and Guardian, SciDev.net, The Conversation, TPCP newsletter and Faculty of Natural and Agricultural Sciences Research report on issues of tree health, Sirex and other forest pests, and ResearchMatters.

#### **4.5 Technical reports**

Hurley BP, Slippers B, Croft PK, Hatting HJ, Dyer C, Wingfield MJ. 2008. The inoculation success of *Deladenus siricidicola*, biological control agent for *Sirex noctilio*, in KwaZulu-Natal. ICFR bulletin 03/2008. pp 1-25.

Annual Sirex Research report to the National Sirex Control Committee (2006-2021).

Overseeing annual Tree Protection Co-operative Programme and contributing to annual Centre for Excellence in Tree Health Biotechnology research reports.

Implementation of national forest health management program for South Africa. Regular reporting to Department of Forestry, Fisheries and the Environment, SA Government.

Blueprint for the establishment of National Young Academies (including principles, statutes, process, milestones, goals, etc.). Leader of team of international young scientists, produced for the Global Young Academy.

## 5. OTHER SCHOLARLY RESEARCH-BASED CONTRIBUTIONS

### 5.1 Participation in conferences, workshops and short courses

#### 5.1.1 National

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- Slippers B, Crous PW, Coutinho TA, Wingfield BD, Wingfield MJ. 2001. Taxonomic studies of *Botryosphaeria* species. In *Proceedings of the South African Mango Growers Association – Research symposium, Tzaneen, South Africa, 21 June 2001*.
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Bush SJ, Slippers B, Hurley BP. 2016. Patterns of host preference of the invasive *Glycaspis brimblecombei* Moore (Hemiptera: Psyllidae). International Congress of Entomology (ICE), Orange County Convention Centre, Orlando, Florida, USA. 25-30 September.

Dittrich-Schröder G, Hurley BP, Wingfield MJ, Slippers B, Lawson SA, Nahrung HF. 2016. Molecular markers confirm the origin and reveal complex global invasion history of the eucalyptus gall wasp, *Leptocybe invasa*. International Congress of Entomology (ICE), Orange County Convention Centre, Orlando, Florida, USA. 25-30 September.

Dittrich-Schroder G, Hurley B, Wingfield MJ, Lawson S, Nahrung H, Slippers B. 2016. Invasion history of *Leptocybe* species reveals the complexity of biological invasions. IUFRO Regional Congress for Asia and Oceania, Beijing, China. 24-27 October.

Garnas J, Wingfield MJ, Slippers B. 2016. Impact of cryptic diversity and misidentifications in managing invasions. International Congress of Entomology (ICE), Orange County Convention Centre, Orlando, Florida, USA. 25-30 September.

Gossa MW, Slippers B, Garnas J, Hurley BP. 2016. Interactions between two invasive insect species co-occurring on non-native pine trees. International Congress of Entomology (ICE), Orange County Convention Centre, Orlando, Florida, USA. 25-30 September.

Hurley BP, Garnas J, Slippers B, Wingfield MJ. 2016. *Sirex-Deladenus*-environment interactions: Lessons from tens of thousands of dissections. International Congress of Entomology (ICE), Orange County Convention Centre, Orlando, Florida, USA. 25-30 September.

Postma Smidt A, van der Nest M, Mlonyeni O, Fitza K, Clasen E, Barnard G, Yek SH, Coetzee M, Wingfield MJ, Joubert F, Slippers B. 2016. The genomes of *Sirex noctilio*, *Amylostereum areolatum*, and *Deladenus siricidicola*: Insights into symbiosis and invasion processes. International Congress of Entomology (ICE), Orange County Convention Centre, Orlando, Florida, USA. 25-30 September.

Slippers B, Hurley BP, Wingfield MJ. 2016. The *Sirex* woodwasp: Complex interactions and evolving management paradigms of a globally invasive forest pest. International Congress of Entomology (ICE), Orange County Convention Centre, Orlando, Florida, USA. 25-30 September. (Invited talk)

Slippers, B. 2016. The power of industry-academia collaborations: Critical mass, leverage and impact. Southern African Macadamia Growers' Association (SAMAC) Research Symposium, Nelspruit. 24 August.

Slippers B, Hurley BP, Wingfield MJ. 2016. The *Sirex* woodwasp: Complex interactions and evolving management paradigms of a globally invasive forest pest. International Congress of Entomology (ICE), Orange County Convention Centre, Orlando, Florida, USA. 25-30 September.

Wingfield MJ, de Beer ZW, Slippers B, Steenkamp ET. 2016. Fungal tree diseases: can we rise above the gathering storm? Annual Symposium of the Centraalbureau voor Schimmelcultures (CBS), Amsterdam, the Netherlands. 13-15 April.

Clasen FJ, Postma Smidt A, Pierneef R, Reva O, Slippers B. 2016 Contribution of Lateral Gene Transfers (LGTs) from Bacteria to the Genome evolution of the Nematode *Deladenus siricidicola*. Annual Conference 2016 of the Association for General and Applied Microbiology (VAAM). Jena, Germany (poster)

Zlatkovic M, Keca N, Wingfield MJ, Jami F, Slippers B. 2016. Botryosphaeriaceae on *Sequoia sempervirens* in Serbia. Belgrade Bioinformatics Conference-BelBi, Serbia 20-24 June 2016.

Zlatkovic M, Keca N, Wingfield MJ, Jami F, Slippers B. 2016. Botryosphaeriaceae on *Aesculus hippocastanum* in Serbia. Belgrade Bioinformatics Conference-BelBi, Serbia 20-24 June 2016.

Slippers B. 2017. African Science Leaders. 4<sup>th</sup> International Conference on Responsible Leadership, GIBS, Johannesburg, South Africa, 15-16 March 2017.

Naidoo S, Mhoswa L, Oates CN, Mphahlele M, Külheim C, Slippers B and Myburg AA. 2017. A multiomics approach to understanding host defence response against the insect pest *Leptocybe invasa* in *Eucalyptus grandis*. IUFRO Tree Biotechnology Congress, Chile, 4-9 June.

Garnas J, Wingfield MJ, Slippers B. 2017. Understanding the ecology and evolution of forest insects in an interconnected world. SIP 2017: 16th Symposium on Insect-Plant Interactions, 2-6 Jul 2017 Tours, France.

Slippers B, Kemler M, McTaggart M, Vivas M, Naidoo S, Wingfield MJ. 2017. 'Omics' approaches to the pathobiome offer pre-emptive solutions to plant biosecurity. IUMS international congress, Singapore, 17-21 July 2017. (Invited keynote).

Bouwer MC, Slippers B, Aguirre Gil OJ, Allison JD. 2017. Plume structure of intercept traps for trapping *Monochamus* spp. (Coleoptera: Cerambycidae). International Society of Chemical Ecology, Kyoto, Japan, 23-27 August.

Hurley BP, Gevers C, Dittrich-Schröder G, Slippers B. 2017. Investigating the complex gall community of *Leptocybe invasa*. 5th International Symposium on Biological Control of Arthropods, Langkawi, Malaysia, 11-15 September.

Dittrich-Schröder G, Hurley BP, Wingfield MJ, and Slippers B. 2017. Gall-forming wasps threaten non-native plantation-grown *Eucalyptus*. 125th IUFRO Anniversary Congress, Freiburg, Germany, 18-22 September 2017.

Vivas M, Kemler M, Rolo V, Wingfield MJ, Slippers B. 2017. Environmental maternal effects on the morphology, physiology and interactions of *Eucalyptus grandis*. 40th New Phytologist Symposium Plant epigenetics: from mechanisms to ecological relevance, University of Vienna, Vienna, Austria, 12–15 September.

Vivas M, Kemler M, Wingfield MJ and Slippers B. 2017. Environmental maternal effects on the phenotype and interactions of *Eucalyptus* seedlings. 125th IUFRO Anniversary Congress, Freiburg, Germany, 18-22 September 2017.

Hurley BP, Slippers B, Wingfield MJ. 2017. Biological control of insects in plantation forests: Optimising an old approach for diverse and changing environments. 125th IUFRO Anniversary Congress, Freiburg, Germany, 18-22 September 2017.

Slippers B. 2017. The role of molecular ecology in the management of invasive pests and pathogens in plantation forestry. 125th IUFRO Anniversary Congress, Freiburg, Germany, 18-22 September 2017.

Naidoo S, Mhoswa L, Oates CN, Mphahlele M, Külheim C, Slippers B and Myburg AA. 2017. A multiomics approach to understanding host defence response against the insect pest *Leptocybe invasa* in *Eucalyptus grandis*. 125th IUFRO Anniversary Congress, Freiburg, Germany, 18-22 September 2017.

Jami F, Marincowitz S, Crous PW, Slippers B, Le Roux JJ, Richardson DM, Wingfield MJ. 2017. Comparison of the Botryosphaeriaceae on *Acacia koa* and *A. heterophylla*: Evidence of a long-standing separation of two genetically close, but geographically isolated, tree populations. IUFRO 125th Anniversary Congress, Freiburg, Germany, 18-22 September.

Schröder ML, Nahrung HF, Lawson SA, Slippers B, Wingfield MJ and Hurley BP. 2017. Biological control of the *Gonipterus scutellatus* species complex: Testing the species, climatic or phenological mismatch hypotheses. 5th International Symposium on Biological Control of Arthropods, Langkawi, Malaysia, 11-15 September.

Dittrich-Schröder G, Postma Smidt A, Hurley BP, Wingfield MJ, Slippers B. 2017. Integrating next generation population genetics and gene editing tools to control invasive insect pests - a case study with the invasive Eucalyptus pest *Leptocybe invasa*. International workshop on "Assessing the Security Implications of Genome Editing Technology", Hannover, Germany, 11-13 October.

Naidoo S, Oates CN, Mhoswa L, 'O Neil M, Acosta JJ, Christie N, Mphahlele MM, Payn KG, Myburg AA, Slippers B, Külheim C. 2018. Factors underpinning resistance against the galling pest, *Leptocybe invasa* in *Eucalyptus grandis*. International Tree Resistance Workshop, Mount Sterling, Ohio, USA, 5-10 August.

Hurley BP, Greyling I, Wingfield MJ, Slippers B. 2018. Pests and pathogens increasingly threaten plantation forestry in South Africa. IUFRO Working Party 7.02.13, Punta del Este, Uruguay 21-23 March. (invited speaker)

Herron DA, de Beer ZW, Slippers B, Wingfield MJ 2018. More "Ideal Plant Clinics" (IPC) required in the Anthropocene. 11th International Congress of Plant Pathology, Boston, USA, 29 July – 3 August.

Jami F, Marincowitz S, Crous PW, Slippers B, Le Roux JJ, Richardson DM, Wingfield MJ. 2018. Botryosphaeriaceae diversity on *Acacia koa* and *A. heterophylla* in La Réunion and Hawaiian islands. International Congress of Plant Pathology, Boston, USA, 29 July – 3 August.

Jami F, Migliorini D, Burgess TI, Crous PW, Slippers B, Wingfield MJ. 2018. Diversity of Botryosphaeriaceae on Proteaceae in South Africa, Australia and Portugal. International Congress of Plant Pathology (ICPP), Boston, USA, 29 July – 3 August.

Slippers B, Barnes I, Steenkamp ET, Wingfield MJ. 2018. The worldwide web of forest fungi. International Congress of Plant Pathology, Boston, USA, 29 July-3 August. (Invited speaker).

Eshetu FB, Nahrung H, Barnes I, Fitza KNE, Elms S, Slippers B. 2018. Genetic diversity of the biocontrol nematode *Deladenus siricidicola* in Australia and New Zealand. International Congress on Invertebrate Pathology and Microbial Control and the 51th Annual Meeting of the Society for Invertebrate Pathology, Qt Gold Coast Hotel, Australia, Gold Coast, 12-16 August.

Fitza KNE, Eshetu F, Garnas JR, Ahumada R, Ayres MP, Krivak-Tetley FE, Lombardero MJ, Barnes I, Nahrung H, Wingfield MJ, Slippers B. 2018. Genetic diversity in global collection of *Deladenus siricidicola*. International Congress on Invertebrate Pathology and Microbial Control and the 51th

Annual Meeting of the Society for Invertebrate Pathology, Qt Gold Coast Hotel, Australia, Gold Coast, 12-16 August.

Bouwer MC, Slippers B, Wingfield MJ, Rohwer ER. 2018. Mass trapping of the Eucalyptus cossid moth (*Coryphodema tristis*) in South Africa. International Society of Chemical Ecology, Budapest, Hungary, 12-17 August 2018.

Dittrich-Schröder G, Gevers C, Hurley BP, Wingfield MJ, Slippers B. 2018. The use of molecular techniques to understand pest introductions and pest complexes. Eucalyptus 2018, Managing *Eucalyptus* plantations under global change, Le Corum, Montpellier, France, 17-21 September.

Dittrich-Schröder G, Clasen E, Hurley BP, Wingfield MJ, Slippers B. 2018. An online mitochondrial DNA sequence database to support pest management research in *Eucalyptus* and *Pinus* plantations. Eucalyptus 2018, Managing *Eucalyptus* plantations under global change, Le Corum, Montpellier, France, 17-21 September.

Mhoswa L, O'Neill MM, Mphahlele MM, Oates CN, Payn KG, Slippers B, Myburg AA, Naidoo SA. 2018. Genome-Wide Association Study in *Eucalyptus grandis* reveals genomic regions and positional candidate genes for the insect pest, *Leptocybe invasa*. IUFRO Working Group 2.08.03 Meeting: "Improvement and Culture of Eucalypts", Montpellier, France 17-21 September.

Slippers B, Kemler M, Vivas M, Messal M, McTaggart A, Naidoo S, Wingfield MJ. 2018. The plant endophytic microbiome and biosecurity: *Eucalyptus* as an example. IUFRO Working Group 2.08.03 Meeting: "Improvement and Culture of Eucalypts", Montpellier, France, 17-21 September 2018.

Smith A, Hurley BP, Slippers B, Fourie G. 2018. Characterisation of Lepidoptera species associated with Macadamia nut damage in South Africa. 8th International Macadamia Symposium, Lincang China, 16-18 October.

Slippers B. 2019. Insights from population genetics and genomics for the management of the invasive pest *Sirex noctilio*. IUFRO World Congress, Forest Research and Cooperation for Sustainable Development, Curitiba, Brazil, 29 September – 5 October.

Slippers B, Steenkamp ET, Jami F, Wingfield MJ. 2019. Interconnected global populations of forest pathogens created through anthropogenic spread. IUFRO World Congress, Forest Research and Cooperation for Sustainable Development, Curitiba, Brazil, 29 September – 5 October. (Invited talk)

Slippers B. 2019. Precision biological pest control. Meeting of IUFRO WG 7.03.13, Biological control of forest insect pests and pathogens, Pretoria, South Africa, 6-8 November.

Scheepers L, Slippers B, Rohwer ER, Allison JD, Bello JE and Bouwer MC. 2020. Pheromone field trapping of *Nudaurelia clarki* (Saturniidae) in South African pine plantations". Entomological Society of America (ESA) Annual meeting, Entomology 2020, online, 11- 25 November.

Nagel JH, Wingfield MJ, Slippers B. 2020. Secreted enzymes and secondary metabolite genes reveal Botryosphaeriaceae adaptation to latent pathogenicity. MSA 2020: Mycology from the Cloud. Virtual Conference hosted by the Mycological Society of America, 22 July.

Nagel JH, Wingfield MJ, Slippers B. 2020. The rise of Botryosphaeriaceae genomics: Exploring the impact of next-generation sequencing. Biodiversity Genomics 2020, Virtual Conference hosted by the Wellcome Sanger Institute, 5-9 October.



Katrin N.E. Fitz, Sharon Reed, Jeremy Allison, Bernard Slippers. 2021. Genetic diversity of *Litylenchus crenatae mccannii* in BLD-affected trees in Ontario, Canada and potential pathways of introduction. Beech Leaf Disease Workshop, United States of America, 16 April.

Pal E, Allison J, Hurley B., Slippers B, Fourie G. 2021. Characterization of the alarm pheromone of *Bathyo-coelia distincta* (Pentatomidae), a major pest of macadamia. 36th Annual Meeting of the International Society of Chemical Ecology (ISCE), Stellenbosch, South Africa, 5-10 September.

Pal E, Allison J, Hurley B., Slippers B, Fourie G. 2021. Genetic diversity of the two-spotted stink bug *Bathyo-coelia distincta* (Pentatomidae) associated to macadamia orchards in South Africa. 22th Biennial congress of the Entomological Society of Southern Africa (ESSA), Limpopo, South Africa, 28 June - 01 July.

Scheepers L, Allison JD, Slippers B, Rohwer ER, Mc Millan PM, Bello JE and Bouwer MC. 2021. The major pheromone component identity of the Pine Emperor moth, *Nudaurelia clarki* (Lepidoptera: Saturniidae), is confirmed. 36th Annual Meeting of the International Society of Chemical Ecology (ISCE), online, 6-10 September.

Scheepers L, Allison JD, Rohwer ER, Slippers B. 2022. The pheromone of the pine emperor moth, *Nudaurelia clarki* (Lepidoptera: Saturniidae), IUFRO Working Party 7.03.16 Graduate Student Webinar Series, Behavioral and Chemical Ecology of Forest Insects, online, 24 January.

Slippers B, Allison J, Hurley BP. 2022. Precision Pest Management in plantation forests. IUFRO All Division 7 conference, Lisbon, Portugal, 06-09 September.

Slippers B, Nahrung H, Fitz K, Eshetu F, Barnes B, Hurley BP. 2022. Insect-fungal joint invasions and biological control: Lessons from the global *Sirex noctilio* invasion. IUFRO All Division 7 conference, Lisbon, Portugal, 06-09 September.

Slippers B. 2022. A 'worldwide web' of tree pathogens: Causes, consequences and possible solutions. World Fungi Day, 8 October. Online Seminar.

Slippers B, Stukenbrock E. 2023. The Plant Disease Pyramid: Plant disease and epidemic development requires a holistic approach. 12<sup>th</sup> International Congress of Plant Pathology, Lyon, France, 20 - 25 August.

Slippers B, Postma A, Duong T, Nagel JH, Wingfield MJ. 2023. *Neofusicoccum parvum*: A plant pathogen of global significance. 12<sup>th</sup> International Congress of Plant Pathology, Lyon, France, 20 - 25 August.

Slippers B, Postma A, Nagel JH, Naidoo S, Duong TA, Wingfield MJ. 2023. Genomic insights into latent fungal pathogen life-styles in the *Botryosphaeriaceae*. 12<sup>th</sup> International Congress of Plant Pathology, Lyon, France, 20 - 25 August.

Hurley BP, Schröder M, Barten H, Jones M, Rakubu I, Slippers B. 2023. Developments in the biological control of *Gonipterus* sp. n. 2 in South Africa. Joint meeting IUFRO WP 7.02.13 and 7.02.03: Novel and classical strategies to manage forest health in plantations; Campo Grande, Mato Grosso do Sul, Brazil, 17-20 September.

Hurley BP, Barnes I, Jali S, Strydom H, Fitza K, Schröder M, Germishiuzen I, Slippers B. 2023. Development and implementation of a national forest health surveillance strategy in South Africa. Joint meeting IUFRO WP 7.02.13 and 7.02.03: Novel and classical strategies to manage forest health in plantations; Campo Grande, Mato Grosso do Sul, Brazil, 17-20 September.

Venter S, Postma A, Slippers B. 2023. The effect of different culturing conditions on the gene expression of the biological control agent *Deladenus siricidicola*. Joint meeting IUFRO WP 7.02.13 and 7.02.03: Novel and classical strategies to manage forest health in plantations; Campo Grande, Mato Grosso do Sul, Brazil, 17-20 September.

Postma A, Slippers B. 2023. Genome and transcriptome resources for *Sirex noctilio*, *Amylostereum areolatum* and *Deladenus siricidicola*. Joint meeting IUFRO WP 7.02.13 and 7.02.03: Novel and classical strategies to manage forest health in plantations; Campo Grande, Mato Grosso do Sul, Brazil, 17-20 September.

Nel WJ, Slippers B, Wingfield MJ, Barnes I, Paap T, Randolph C, Hurley BP. 2023. Six *Fusarium* species identified from *Euwallacea xanthopus* in South Africa, including two novel species. Joint meeting IUFRO WP 7.02.13 and 7.02.03: Novel and classical strategies to manage forest health in plantations; Campo Grande, Mato Grosso do Sul, Brazil, 17-20 September.

Nzuza P, Schröder M, Heim R, Slippers B, Hurley BP, Roux J, Germishuizen I, Sivparsad B, Maes W. 2023. Detecting *Gonipterus* sp. n. 2 (Coleoptera: Curculionidae) defoliation levels using Unmanned Aerial Vehicle (UAV) imagery in commercial forests of South Africa. Joint meeting IUFRO WP 7.02.13 and 7.02.03: Novel and classical strategies to manage forest health in plantations; Campo Grande, Mato Grosso do Sul, Brazil, 17-20 September.

Queffelec J, Allison J, Greeff J, Slippers B. 2023. Reproductive ecology affects invasion: *Sirex noctilio* as a case study. Joint meeting IUFRO WP 7.02.13 and 7.02.03: Novel and classical strategies to manage forest health in plantations; Campo Grande, Mato Grosso do Sul, Brazil, 17-20 September.

Fitza KNE, Eshetu F, Nahrung H, Barnes I, Carnegie A, Hurley BP, Slippers B. 2023. Reproduction and growth rate of Lineage B and D nematode strains and the implications for *Sirex* Management. Joint meeting IUFRO WP 7.02.13 and 7.02.03: Novel and classical strategies to manage forest health in plantations; Campo Grande, Mato Grosso do Sul, Brazil, 17-20 September.

Eshetu FB, Barnes I, Nahrung H, Fitza KNE, Slippers B. 2023. Population genetics of the woodwasp *Sirex noctilio* and fungal symbiont *Amylostereum areolatum* in Australia and New Zealand: Unravelling 120 years of invasion history. Joint meeting IUFRO WP 7.02.13 and 7.02.03: Novel and classical strategies to manage forest health in plantations; Campo Grande, Mato Grosso do Sul, Brazil, 17-20 September.

Guignard Q, Allison JD, Spaethe J, Bouwer M, Strube-Bloss M, Slippers. 2023. Visual and chemical ecology of the European woodwasp, *Sirex noctilio*. Joint meeting IUFRO WP 7.02.13 and 7.02.03: Novel and classical strategies to manage forest health in plantations; Campo Grande, Mato Grosso do Sul, Brazil, 17-20 September.

Barnes I, Hurley BP, Wingfield MJ, Slippers B. 2023. The Tree Protection Co-operative Programme: Past, Present and Future directions. Joint meeting IUFRO WP 7.02.13 and 7.02.03: Novel and classical strategies to manage forest health in plantations; Campo Grande, Mato Grosso do Sul, Brazil, 17-20 September.

Slippers B, Coetzee M, Duong T, Wingfield MJ, Tanney JB, Alves A. 2024. The threat of latent, stress related tree pathogens in a changing climate with a special focus on *Botryosphaeriaceae*. 12<sup>th</sup> International Mycological Conference, Maastricht, Netherlands, 11-15 August.

Grobler C, Slippers B, Oostlander A, Fleißner A, Enderle R, Duong T. 2024. Local scale population genetic and phenotypic diversity in the Pine pathogen *Diplodia sapinea*. 12<sup>th</sup> International Mycological Conference, Maastricht, Netherlands, 11-15 August.

Slippers B, Borchert M, Visagie CM, Wingfield MJ, Duong TA. 2024. Evolution, cryptic species and new sequence markers for the *Botryosphaeriaceae*. 12<sup>th</sup> International Mycological Conference, Maastricht, Netherlands, 11-15 August.

Slippers B, Coetzee M, Duong T, Wingfield MJ, Tanney JB, Alves A. 2024. The threat of latent, stress related tree pathogens in a changing climate with a special focus on *Botryosphaeriaceae*. 12<sup>th</sup> International Mycological Conference, Maastricht, Netherlands, 11-15 August. (invited).

Hurley BP, Schroder ML, Slippers B. 2024. Revising a century old biological control programme: considering climate, diversity and specificity. 27<sup>th</sup> International Conference of Entomology, Kyoto, Japan, 25-30 August.

## **5.2 Membership in national and international bodies**

Southern African Society of Plant Pathology, Member

South African Institute of Forestry, Member

Entomological Society of Southern Africa, Member, Vice-President (2017-2019)

South African Society of Microbiology, Member

International Mycological Association, Member

International Entomological Society, Member

South African Young Academy of Science, Founding member, Executive Committee member (2012)

Global Young Academy, Founding member, Executive Committee (2010), Co-chair (2011-2013)

Academy of Science of the Developing World (TWAS), Young affiliate

Academy of Science of South Africa, Member

Royal Society of South Africa, Fellow

## 6. MANAGEMENT AND ADMINISTRATIVE DUTIES

Forestry and Agricultural Biotechnology Institute (FABI): Management committee member (2005-present); Director (2018-present)

Tree Protection Cooperative Programme: Management committee member (2005-present); Director (2018-present)

Head of Residence (Boekenhout/Tau Mens Residence; 2008-2014) (TuksVillage; 2016-2018)

UP Residence Advisory Board and Chairman of Clubhouses (2008-2014)

National Sirex Control Steering Committee member (2005-present)

National Forest Research Forum, DAFF (2017-present), Deputy Chair (2018-present)

Planned and oversaw building and establishment of the Quarantine Insect facility and the Biological Control research facility on the UP experimental farm (2008-present), and proposal for substantial expansion of the facilities (2015-2018)

Global Young Academy: the voice of young scientists around the world; Founding member, (2010), Executive Committee (2010-2011) and Co-chair (2011-2012)

South African Young Academy of Science; Founding member and Executive Committee (2011-2012)

Seconded to the Rector's office (2014) and interim director: University of Pretoria *Future Africa* initiative, which includes development of accommodation, function/dining, office and conference space for 300 visiting scholars, research fellows, postdocs and PhD fellows, as well as researcher and project development processes (2014-2015)

Director: Africa Science Leadership Programme (2015-present) and Tuks Young Research Leader Programme (2016-present)

Next Einstein Forum, Scientific Programs Committee; an initiative of AIMS and the Bosch foundation to develop a high profile, continent wide, general science advancement conference (2015-2020)

Scientific and Strategic Steering Committee (SSSC) of the IRD-CNRS-Cirad (France) joint office in South Africa (2018-2019)

Future Africa: Conceptualization, fund-raising and implementation of the project and founding director (2014-2019)

Innovation Africa @UP: Conceptualization, fund-raising and implementation of the project and founding director (09-2019 to present)

Board of Trustees: Africa Agricultural Technology Foundation (2021-2024); Chair of Resource Mobilization, Partnerships and Sustainability Subcommittee of the Board (2024-present)

## 7. COMMUNITY SERVICE OR PROFESSIONAL SKILLS

### 7.1 Outreach projects

Regular talks and consultation with members of the South Africa forestry and agricultural industry at field days, workshops and congresses, as well as radio talks and popular articles regarding plant pests and diseases.

I regularly lead student development, leadership and stereotype reduction workshops with undergraduate students.

A number of talks to religious groups about the relation between science and faith, particularly around the topic of evolution, including radio and television.

I have been actively involved in the establishment of the Global Young Academy: the voice of young scientists around the world, made the initial proposals and served on the committee appointed by ASSAf to help establish a South Africa Young Academy of Science. I was a founding member of both these organizations and served in executive leadership positions for both. I also lead the team to produce the 'Blueprint for establishment Young Academies' document, and am actively involved in stimulating the establishment of young academies in other parts of the world.

Lead bid and organizing team for Global Young Academy general assembly (GIBS, University of Pretoria, Johannesburg). Including outreach activities after the meeting of GYA members to various schools and research institutions.

Regular participation and leadership in school science outreach activities via FABI and the Centre of Excellence in Plant Health Biotechnology.

### 7.2 Professional service performed

Regular presentations at fields days and other industry meetings organized by the Institute for Commercial Forestry Research and the SA Institute of Forestry

#### International research panel and meeting involvement:

4-18 June 2006, Kerinci, Indonesia. April Group, Research and Development review, Pest and diseases threatening plantation forestry in Indonesia.

15-16 December 2006, Indianapolis, USA. APHIS USDA, Sirex Science Panel meeting, Sirex research and its control in the USA and South Africa.

2007-2008, various European countries. FORTHREATS, EU funded project to assess pathogen risk factors to European forests.

10-17 May 2007. Pretoria and Pietermaritzburg, South Africa. International Sirex Research symposium and workshop. Lead the organising committee.

1-5 July 2008. IUFRO Recent Advances in Forest Entomology, Pretoria, South Africa. Lead the organising committee.

6-11 July 2008. ICE2008, Durban, South Africa. Co-organiser of two symposia on insect-microbe symbioses and invasive forest insects.

23-28 August 2010. IUFRO 2010 World Congress, Seoul, Republic of Korea. Organiser of session on molecular ecological and evolutionary perspectives on changing populations of forest insects and their symbionts symbioses.

26-27 October 2011, Future Forests, various European and other international participants, EU funded project. Sustainable strategies under uncertainty and risk to European Forests

14-16 September 2011. Young Scientist Mentor, at the Annual meeting of the New Champions, World Economic Forum, Dalian, China, invited by the Inter Academy Panel.

20-23 May 2012. Lead bid and organizing team for Global Young Academy general assembly (GIBS, University of Pretoria, Johannesburg). Including outreach activities after the meeting of GYA members to various schools and research institutions, as well as visits and talks by Prof Bruce Alberts (Editor of Science), Prof Howard Alper (Co-Chair of IAP) and Prof Helmut Schwarz (past-president of Alexander von Humboldt Foundation).

25-27 February 2013 Bi-annual IAP meeting. Theme: Grand Challenges and Integrated Innovations: Science for Poverty Eradication and Sustainable Development; Rio de Janeiro. Served on the organizing committee, attended the meeting, presented on YA movement and moderated some sessions.

18-20 March 2013. GYA, SAYAS, Junge Akademi workshop steering committee on Socio-ecological novelty: Frontiers in sustainability research. Berlin, Germany. (including a public panel discussion on 'Bridging Two Hemispheres: Policy Advice and Sustainability Research in Germany and South Africa')

12-14 May 2013. Global State of Young Scientists international workshop. Served on steering committee, Global Young Academy, Hannover, Germany.

15-18 May 2013. GYA General Assembly. Theme: Demography and Global Research. Steering committee. Halle, Germany.

2-3 October 2013. USAID PEER (Partnership for Enhanced Engagement in Research) congress, Bangkok, Thailand. Participated in panel on 'Importance of Reaching Outside the Scientific Community: Making Your Voice Heard to the Public and to Policy Makers'.

18-23 May 2014. GYA General Assembly. Theme: Demography and Global Research. Steering committee. San Diego, Chile.

2-6 February 2014. First joint Africa Young and Senior Academies workshop. Theme: Demography and Global Research. Steering committee. Nairobi, Kenya.

Annually since June 2015, Africa Science Leadership Programme workshops for scholars from across Africa.

Annually since October 2016, Tuks Young Research Leadership Programme workshops for scholars from the University of Pretoria.

25-30 September 2016. International Congress of Entomology, Symposium on the Sirex Woodwasp as a global invasive pest, Pretoria, South Africa.

6-8 November 2019. IUFRO WG 7.03.13. Biological control of forest insect pests and pathogens.

January 2021. Southern Africa Society for Plant Pathology, society online pre-meeting for the 52<sup>nd</sup> Biennial Congress, which was postponed due to COVID-19, Pretoria, South Africa.

September 2021. International Society of Chemical Ecology, Annual Congress, intended to be held in Stellenbosch, South Africa, but hosted online due to COVID restrictions. Host and part of the organising committee.

August 2022. Southern Africa Society for Plant Pathology, 52<sup>nd</sup> Biennial Congress, Pretoria, South Africa. Co-leading the organizing committee.

June 2024. Biophysics of Spore Dispersal: Ideas for Stopping Plant Disease. Future Africa campus, University of Pretoria, South Africa. International workshop funded by the International Centre for Theoretical Physics. Member of the organizing committee.

### **7.3 Referee duties**

International scientific journal reviews: African Entomology, African Plant Protection, Basic Microbiology, Biological Invasions, Canadian Journal of Forest Science, Canadian Journal of Plant Pathology, Czech Mycology, Ecology and Evolution, Environmental Entomology, European Journal of Plant Pathology, FEMS Microbiology, Forestry, Forest Ecology and Management, Forest Pathology, Frontiers in , Fungal Biology, Fungal Ecology, Journal of Invertebrate Pathology, Molecular Ecology, Mycotaxon, Mycological Research, Persoonia, Phytopathology, Phytopathologia Mediteranea, Plant Disease, Plant Pathology, PLOS ONE, Research in Microbiology, Scientific Reports, South African Journal of Science, Southern Forests, Sydowia and Studies in Mycology, The Canadian Entomologist.

Joint editor for two issues of Studies in Mycology; 55 -100 Years of Fungal Biodiversity in southern Africa; 76 - Plant pathogenic and endophytic *Botryosphaeriales* known from culture

Joint editor of special issue of Fungal Biology, Vol 121, Issue 4; Botryosphaeriaceae: systematics, pathology and genetics

Joint editor of special issue of Fungal Evolution and Systematics, Vol 13. 2024; In celebration of the career of Michael J Wingfield.

Journal editorial board: Plant Pathology; Fungal Ecology, Frontiers in

Formas, Swedish Research Council, review panel on *Ecosystems and biodiversity on land* (2021 to present)

Regular examiner of Masters and PhD theses at South African and International Universities.

## 8. AWARDS AND SCIENTIFIC/SCHOLARLY RECOGNITION

### 8.1 Evaluation status as scientist/scholar

NRF President's Award (P-rating); 2008-2014

NRF B1; 2015-present

### 8.2 Research awards and prizes

Andries Brink-Sasol Prize for best M.Sc. dissertation in Microbiology (1999)

S2A3 Billiton Bronze Medal for best M.Sc. dissertation at the University of the Free State (1999)

Junior Captain Scott Medal for the best dissertation at an South African University (Academy for Science and Art – Biological Sciences) (2000)

British Society for Plant Pathology - Assistance to attend 7<sup>th</sup> International Congress of Plant Pathology and 7<sup>th</sup> International Mycological Congress

Mellon Foundation Award (1999-2002) - Mellon postgraduate mentoring programme, administered by the University of Pretoria and funded by the Andrew W. Mellon Foundation, USA.

Southern African Society for Plant Pathology (2001) - Young Plant Pathologist award to support attendance of the 39<sup>th</sup> annual congress.

International Mycological Society 2002 - Bursary to cover registration, accommodation and functions at the 7<sup>th</sup> International Mycological Congress – invited speaker.

Skye Foundation, South Africa 2003 - Support for postdoctoral study at the Swedish University of Agricultural Sciences.



Post-doctoral support 2003-2004 from the Swedish University of Agricultural Sciences

Sida (Sweden) and NRF (South Africa) (2003-2006) - Co-applicant. Sweden - South African collaboration; Travel, publication and other costs related to a collaborative *Sirex – Amylostereum* research project

International Union of Forestry Research Organisation (IUFRO) (2005) - Award for Outstanding Doctoral research

University of Pretoria (2008, 2009, 2013), Exceptional Young Researcher award, Faculty of Natural and Agricultural Sciences.

Young Scientist, amongst 60 selected by the Inter Academy Panel on international issues to attend the Annual meeting of the New Champions, World Economic Forum, Dalian, China (2009)

Academy of Science of the Developing World (TWAS) Young Affiliate (2009).

Southern African Association for the Advancement of Science (S2A3) British Association Medal (Silver) for scientific excellence to a South African scientist under the age of 40 (2010).

Young Scientist Mentor, invited by the Inter Academy Panel, at the Annual meeting of the New Champions, World Economic Forum, Dalian, China (2011).

Inaugural AU TWAS Young Scientist national award (2011).

Inaugural JE Vanderplank award from Southern African Society of Plant Pathology (2013)

Elected member of the Academy of Science of South Africa (ASSAf) (2016)

University of Pretoria Chancellors' medal, highest award for research excellence (2016)

Highly Cited Researcher, top 1% cited researchers in the field of Plant & Animal Science, Clarivate Analytics (2018)

South African Institute of Forestry, Continuous Service Excellence Award (2018)

Havenga Prize for Life Sciences from the Academy for Science and Art (2020)

Elected as fellow of the Royal Society of South Africa (2021)

Christiaan Hendrik Persoon Gold Medal from the Southern African Society of Plant Pathology, the highest award of the Society in recognition of a world leader in Plant Pathology (2022)

National Science and Technology Forum of South Africa (NSTF) – South32 Awards, Research and Innovation Management (2024)

Nominated for an Alexander von Humboldt Research Award, Germany (outcome pending)