

MICHAEL J. WINGFIELD

CURRICULUM VITAE

**Forestry and Agricultural Biotechnology Institute
(FABI)
Faculty of Biological and Agricultural Sciences
University of Pretoria
Pretoria
0002**

UPDATED MARCH 2023

MICHAEL J. WINGFIELD

1. PERSONAL PARTICULARS AND BIOGRAPHICAL SKETCH

1.1 Work Address

Forestry and Agricultural Biotechnology Institute (FABI)
 Faculty of Biological and Agricultural Sciences
 University of Pretoria
 Pretoria 0002
 South Africa

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 www: <http://www.fabinet.up.ac.za> (FABI)
<http://www.fabinet.up.ac.za/index.php/people-profile?profile=1022>
 (personal site)

1.2 Personal Particulars

Born 21 April 1954 at Warner Beach, Natal, South Africa, Professor in FABI and Advisor to the Executive of the University of Pretoria. Married 15 December, 1979 to Brenda D. Fairbairn (B.Sc.Med., Hons. Biochemistry, Cape Town; M.Sc. Biochemistry, Minnesota; Ph.D. Microbiology, Stellenbosch, Faculty of Natural and Agricultural Sciences and Professor, Department of Genetics, University of Pretoria.

1.3 Education

- | | |
|-------------|---|
| 2008 | Harvard University , Harvard Business School, Advanced Management Programme 175. |
| 1980 - 1983 | University of Minnesota , St. Paul, MN 55108, USA.
Degree: Ph.D., December 1983.
Major: Plant Pathology. Minor: Entomology.
Dissertation: " Ecology of the pine wood nematode, <i>Bursaphelenchus xylophilus</i> in the North Central United States ". |
| 1978 - 1979 | University of Stellenbosch , Stellenbosch 7600, South Africa.
Degree: M.Sc., December 1979 (degree <i>cum laude</i>).
Major: Plant Pathology.
Thesis: " Some forest tree diseases in South Africa ". |
| 1977 | University of Natal , Pietermaritzburg 3201, South Africa.
Degree: B.Sc. Honours, December 1977.
Major: Plant Pathology.
Report: " Fungus diseases of <i>Arachis hypogea</i> in Pietermaritzburg ". |
| 1974 - 1976 | University of Natal , Pietermaritzburg 3201, South Africa.
Degree: B.Sc., December 1976.
Majors: Botany and Plant Pathology. |

1.4 Employment

- 1978 - 1980 **Agricultural Researcher**, Plant Protection Research Institute, Stellenbosch, South Africa. Responsible for establishing a Forest Pathology programme in South Africa.
- 1980 - 1983 **Research Assistant**, University of Minnesota, St. Paul MN55108, USA.
- 1984 - 1986 **Senior Agricultural Researcher**, Plant Protection Research Institute, Stellenbosch 7600, South Africa. Responsible for the forest pathology programme in South Africa. Other Responsibilities included administering a Forest Pathology programme (eight staff) and teaching University classes on an *ad hoc* basis.
- 1986 - 1988 **Assistant Specialist Scientist**, Plant Protection Research Institute, Stellenbosch 7600, South Africa. Promotion on merit to post dedicated to research. *Ad hoc* teaching responsibilities and advisorship of post graduate students in Forest Pathology.
- 1988 - 1990 **Associate Professor**, Department of Microbiology and Biochemistry, University of the Free State, Bloemfontein 9300, South Africa. Co-appointment in Department of Plant Pathology, University of the Free State.
- 1990 - 1998 **Professor**, Department of Microbiology and Biochemistry, University of the Free State, Bloemfontein, 9300. Co-appointment in Department of Plant Pathology.
- 1994 **Visiting Professor**, Department of Plant Pathology, Iowa State University, Ames, Iowa, U.S.A.
- 1994 **Mondi Professor of Forest Pathology**, *ad hominum* chair sponsored by Mondi Business Paper Co. Ltd. (1994). Chair reinstated at the University of Pretoria, 1998 and extended for three year term. Extended 2001 for a three year term and in 2004 and 2008 for five year terms.
- 1998 - 2001 **Professor and Founder Director**, Forestry and Agricultural Biotechnology Institute (FABI), University of Pretoria, South Africa.
- 2000 **Visiting Scientist**, CSIRO Division of Forestry and Forest Products, Canberra, Australia. June 2000 - December 2000.
- 2001 - 2018 Reappointed **Director** of Forestry and Agricultural Biotechnology Institute (FABI), University of Pretoria, South Africa without fixed term.
- 2004 - 2018 Appointed as **Director** of the National Research Foundation (NRF), Department of Science and Technology (DST), Centre of Excellence in Tree Health Biotechnology. One of the first six CoE's to be established within the South African Science system in June 2004.
- 2006 **Visiting Professor**, Murdoch University, Perth, Australia. July-August, 2006.
- 2009 **Visiting Professor**, University of California, Davis, USA. July-December 2009.
- 2019-onwards **Professor in FABI and Advisor to the to the University of Pretoria's Executive** reporting to Vice-Principal for Research, Prof. Sunil Maharaj. 2019 -

1.5 Awards and Honours

Appointed to Sigma Xi Honour Society, 1982.

Recipient of the Foundation for Research Development (FRD) Presidents Award for Young Scientists, 1989 - 1992.

Recipient of 1990 Merit Certificate of the South African Association for the Advancement of Science for achievements in research.

Finalist in the Four Outstanding Young South Africans (FOYSA) programme, 1992.

Foundation for Research Development (FRD) comprehensive grant holder, 1993-1996.

Elected Fellow of the Southern African Society for Plant Pathology, January 1995.

Senior Captain Scott Memorial Medal, South African Academy for Art and Science, 1995.

A- rating of the Foundation of Research Development (FRD) ranked (at the time) amongst 43 leading University and Museum scientists in South Africa, September 1996. Term of rating set for seven years up to 2003.

Special merit award of the South African Forestry Institute for contributions to Forestry in South Africa, May 1997.

Awarded the Havenga Prize of the South African Academy for Art and Science for excellence in research, 1998.

Included on a list of 14 South African scientists at Universities and Museums with the highest evaluations of the Foundation for Research Development. April 1998.

Elected as a member of the Academy of Science of South Africa, April 1998.

Elected Fellow of the Royal Society of South Africa, September 1998.

Honoured with the names of four fungi: *Leptographium wingfieldii* Morelet and *Sterigmatomyces wingfieldii* van der Walt, *Asterina wingfieldii* Hosagoudar and *Catenulostroma wingfieldii* Crous.

Recipient of the National Science and Technology Forum (NSTF) award for Outstanding Contributions to Science, Engineering and Technology in the individual category. November 1998.

Awarded status of Outstanding Academic Performer, University of Pretoria for the terms 1998 – 2000; 2001-2003; 2004-2006; 2007-2009; 2010-2012; 2013-2015.

Appointed to Senate of the University of Pretoria, 1999 onwards.

Awarded the Hendrik Christiaan Persoon medal, highest honour of the Southern African Society for Plant Pathology (SASPP). Award presented for the third time in 40 years. January 1999.

Recipient of the silver medal of the South African Society for Microbiology, January 2000.

Recipient of the University of Minnesota Plant Pathology, Distinguished Alumnus Award. May 2000.

Recipient of the International Union of Forestry Research Organizations (IUFRO) Scientific Achievement Award, October 2000.

Recipient of the Chancellor's Award for Research, University of Pretoria, May 2001.

Research programme identified as one of South Africa's first six Centres of Excellence in Science, supported by the Department of Science and Technology and National Research Foundation, June 2004 onwards.

Recipient of the South African Association for the Advancement of Science Gold Medal. 2005.

Recipient of the University of Pretoria Laureatus Award. November, 2005.

Research programme, recipient of the Trust for Human Resources, Industry Partnership (THRIP) award for outstanding post doctoral education. 2006.

Recipient of the Mycological Society of America, Honorary Member Award. August 2007.

Recipient of the Chancellor's Award for Research, University of Pretoria, August 2007. First time that this award was presented to the same person for a second time.

Recipient of one of the "100 Leading Minds" awards celebrating the Centenary of the University of Pretoria. March 2008.

A1 rating by the National Foundation for Research Development, January 2008.

Elected Fellow of the American Phytopathological Society (APS). August 2008.

Gold Medal of the Academy of Sciences of South Africa (ASSAf), April 2009.

Biotech Fundi Award for Human Capacity Development, Gauteng Department of Agriculture and Rural Development, South Africa, October 2009.

Trust for Human Resources, Industry Partnership (THRIP) Award for Human Capacity Building, November 2011.

Johanna Westerdijk Award of the Centraalbureau voor Schimmelcultures, Netherlands. April/ 2012.

Awarded an Honorary Doctor of Science Degree by the University of British Columbia (Canada), November 2012.

Awarded an Honorary Doctor of Science Degree by North Carolina State University, USA, conferred, May 2013.

Recipient of the African Union Kwame Nkurumah Science Award, 2013. Award presented at the African Union Headquarters, Addis Ababa, Ethiopia, May 2013.

Recipient of the Advanced Leadership Award for Internationals, University of Minnesota, 2015.

Recipient of the Herschel Medal of the Royal Society of South Africa, 2017.

Recipient of the Chinese Government Friendship Award for 2017, October 2017.

Included in Clarivate Analytics (Web of Science) list of the most highly cited researchers globally, 2017, 2018, 2019, 2020, 2021 and 2022.

Recipient of the Distinguished Forestry Award of the South African Institute of Forestry, May 2018.

Honorary Membership of the International Mycological Association, August 2018.

Recipient of the National Science and Technology Forum Annual Theme Award: Planth Health, July 2020.

Awarded an Honorary Doctor of Science Degree by the University of the Free State, South Africa, conferred April 2022.

Recipient of the Harry Oppenheimer Fellowship Award for 2021, received July 2022.

Recipient of the Hartig-Patterson Award by International Union of Forestry Research Organisations (IUFRO) Division 7: Forest Health, Lisbon, September 2022.

1.6 Professional Memberships and Societies

Southern African Society for Plant Pathology (1978-) (**FELLOW-1995**)

British Mycological Society (1979-)

American Phytopathological Society (1980-) (**FELLOW-2008**)

Mycological Society of America (1983-) (**HONORARY MEMBER-2007**)

South African Society for Microbiology (1984-)

South African Experimental Biology Group (1985-1988)

South African Botanical Society (1986-)

South African Association of Botanists (1986-)

Academy of Sciences of South Africa (Elected Member 1998-)

Royal Society of South Africa (1987-) (**FELLOW-1998**)

South African Institute of Ecologists (1987-1992)

South African Institute of Forestry (1988-)

South African Wildlife Society (1989-1998)

South African Association of Biology Teachers (1989-1992)

South African Association for the Advancement of Science (1990-)

International Union of Forest Organisations (IUFRO) individual member (1991-2009) and institutional member 2010-onwards; elected as President for the 2014-2019 term. Immediate Past President and member of the executive (Management Committee), 2019-2024.

Society for Molecular Biology and Evolution, (1993-2007)

Entomological Society of Southern Africa (1998-)

2. TEACHING EXPERIENCE AND STUDENT SUPERVISION

2.1 Classes and Laboratories Taught

University of Natal, Pietermaritzburg.

Introductory Plant Pathology Laboratory, 1977.

University of Minnesota 1980 - 1982.

Forest pathology Laboratory 1981 and 1982.

Insects in relation to plant disease. Guest lectures 1982 and 1983.

University of Wisconsin, Madison.

Invited lab and lecture on pine wood nematode 1983.

University of Stellenbosch 1984 - 1991.

Forest pathology for Forestry Honours course 1984.

Forest pathology, full quarter course 1985.

Forest pathology concepts lecture and lab 1986.

Forest pathology concepts lecture 1988.

Forest pathology concepts course (Approximately 10 lectures and two labs) 1990, 1991, 1992, 1993, 1994 and 1995 supported by Foundation for Research Development and the South African Forestry Council.

University of the Free State, Bloemfontein. 1989-1998.

Mycology 325, Semester course in Mycology to *third* year students. 1989-1997.

Mycology 603, B.Sc.Hons. Course - Advanced concepts in Mycology. 1989-1998.

University of Pretoria, 1998 onwards.

Ad hoc teaching of undergraduate classes and guest lectures in Plant Pathology, Genetics and Plant Sciences.

2.2 External Examiner

University of the Free State, Bloemfontein.

External examiner for M.Sc. of R.Y. Annelich, 1986.
External examiner for M.Sc. of E. Venter, 1987.
External examiner for M.Sc. of J.L. Bosman, 1987.
External examiner for M.Sc. of F.J. de Jager, 1987.
External examiner for M.Sc. of J. Rheeder, 1988.

University of Natal, Pietermaritzburg.

External examiner, B.Sc. Hons. Epidemiology courses, 1986 - 1991.

University of Fort Hare.

External examiner, M.Sc. of Mr. W.R. Witbooi, 1991.

University of Durban Westville.

External examiner, M.Sc, Mr. V. Singh, 1993.

University of Stellenbosch.

External examiner, M.Sc. Ms D. Victor, 1995.

University of Oslo, Norway

Examiner, Ph.D., P. Krokene,

University of Tasmania, Australia.

External Examiner, Ph.D. Zi Yuan Qing, July 1998.

University of Western Australia

External Examiner, Ph.D. B.J. Smith, June 1999.

University of Joensuu, Finland

External Examiner, Ph.D. H. Viiri, July 2002.

Murdoch University, Australia

External Examiner, Ph.D. A. Maxwell, July 2003.
External Examiner, Ph.D. T. Paap, September 2006.

University of Helsinki, Finland.

External Examiner and Examination Opponent. Ph.D. Tero, November 2004.

La Trobe University, Australia.

External Examiner, Ph.D. P. Barber. April 2005.

2.3 Post Graduate Student Training

2.3.1 Doctor of Science (D.Sc.) Students

P.W. Crous 2010 - Promoter: M.J. Wingfield

Dissertation Topic: Taxonomy and phylogeny of the genus *Mycosphaerella* and its anamorphs.

2.3.2 Doctor of Philosophy (Ph.D.) Students (topics do not reflect the exact wording of the dissertation titles).

P.W. van Wyk. 1988 - 1990.

Dissertation Topic: Ultrastructure of ascospore development in *Ceratocystis* and *Ophiostoma*.

W.J. Swart. 1988 - 1991.

Dissertation Topic: Aspects of the biology and taxonomy of *Sphaeropsis sapinea* with particular reference to variation within the species.

P.W. Crous. 1990 - 1992.

Dissertation Topic: The genera, *Cylindrocladium* and *Cylindrocladiella* with special reference to their occurrence on plantation trees in South Africa.

A. Smit, 1991 - 1994.

Dissertation Topic: *Diaporthe ambigua* with special reference to its pathogenicity on fruit trees in South Africa.

A. Viljoen, 1990 - 1994. (Converted from an M.Sc.)

Dissertation Topic: The pathogenicity and taxonomy of *Fusarium subglutinans* f.sp. *pini* in South Africa.

J.P. Rheeder, 1991 - 1994. (Co-advisor)

Dissertation Topic: A study of the factors associated with the incidence of *Fusarium moniliforme* ear rot in maize in South Africa and Transkei.

G.J. Marais, 1990 - 1995. (Converted from M.Sc., 1993)

Dissertation Topic: Ophiostomataceae associated with *Protea* spp. in South Africa and their biogeographic significance.

C. Viljoen, 1991 - 1996. (Converted to Ph.D., 1992) (Co-advisor)

Dissertation Topic: A taxonomic study of *Ceratocystis sensu lato* with special reference to species associated with *Protea* infructescences in southern Africa.

F. Swart, 1993 - 1998.

Dissertation Topic: Black spot of Mineola Tangelo caused by *Alternaria alternata* in South Africa.

J.F. Wolfaardt, 1991 - 1999. (Co-advisor)

Dissertation Topic: Utilization of wood-decay fungi for biokraft pulping of softwood.

M. Mouton, 1992 - 1993.

Dissertation Topic: Conidium development in synnematous anamorphs of *Ophiostoma*.

C. Linde, 1993 - 1999.

Dissertation Topic: Population structure of *Phytophthora cinnamomi* in South Africa.

C. Witthuhn (nee Strydom), 1995 - 1999 (Co-advisor)

Dissertation Topic: Molecular taxonomy and mating type genes in *Ceratocystis sensu stricto*.

D.J. Theron, 1992 - 1999 (Co-advisor)

Dissertation Topic: *Fusarium* dry rot of potatoes: etiology, epidemiology, toxicity and control.

C. Schoch, 1996 - 2000 (Co-advisor)

Dissertation Topic: Phylogenetic relationships and population dynamics of *Calonectria*.

L. van Zyl, 1995 - 1999

Dissertation Topic: Factors associated with *Coniothyrium* canker of *Eucalyptus* in South Africa.

H. Smith, 1995 - 2001.

Dissertation Topic: Biology of *Botryosphaeria dothidea* and *Sphaeropsis sapinea* as endophytes of eucalypts and pines in South Africa.

S. Denman, 1996 - 2002 (Co-advisor).

Dissertation Topic: Botryosphaeria diseases of Proteaceae.

K. Jacobs, 1996 - 2000.

Dissertation Topic: The genus *Leptographium*: a critical taxonomic analysis.

J. Roux, 1996 - 1999.

Dissertation Topic: Diseases of *Acacia mearnsii* in South Africa with particular reference to *Ceratocystis* wilt.

E. Steenkamp, 1996 - 2000 (Co-advisor)

Dissertation Topic: Molecular taxonomic studies of selected species in the *Giberella fujikuroi* complex.

N. Zachee (Cameroon), 1996 - 1999 (Co-advisor)

Dissertation Topic: Mycotoxin contamination of maize in relation to insect infestation, agricultural practices and agroecology in the Republic of Cameroon.

M. Coetzee. 1997 - 2003 (Co-advisor)

Dissertation Topic: Molecular phylogenetic studies on *Amillaria* with specific reference to southern Hemisphere species.

D. Fourie, 1998 - 2003 (Co-advisor)

Dissertation Topic: Bacterial diseases of dry beans in South Africa special reference to common bacterial blight and its control.

H. Myburg, 1997 - 2003 (Co-advisor).

Dissertation Topic: Molecular phylogenetic studies on species of *Cryphonectria* and related fungi.

H. Britz, 1997 - 2002.

Dissertation Topic: Taxonomy and population genetics of *Fusarium subglutinans sensu lato* on pine and mango.

E. van Jaarsveld, 1998 - 2002.

Dissertation Topic: *Phytophthora nicotianae* on tobacco and its control in South Africa.

N. Moleleki (Lesotho), 1999 - 2002 (Co-advisor)

Dissertation Topic: RNA viruses of *Sphaeropsis sapinea* and *Diaporthe ambigua* and their possible use as biological control agents.

S. van Heerden, 1999 - 2004.

Dissertation Topic: Studies on *Cryphonectria cubensis* in South Africa with special reference to mycovirus infection.

P. Chimwamurombe (Zimbabwe), 1997 - 2001 (Co-advisor)

- Dissertation Topic:* Molecular plant-pathogen interactions with special reference to *Eucalyptus grandis* polygalacturonase-inhibiting proteins and fungal polygalacturonases.
- B. Maseko, 1999 - 2009 (Co-advisor)
Dissertation Topic: Die-back of cold tolerant *Eucalyptus* associated with *Phytophthora* spp. in South Africa.
- X.D. Zhou (China), 1998 - 2003
Dissertation Topic: Taxonomy and biology of Ophiostomatoid fungi associated with conifer-infecting bark beetles.
- B. Slippers, 1999 - 2003
Dissertation Topic: The taxonomy, phylogeny and ecology of Botryosphaeriaceae fungi occurring on various woody hosts.
- M. Visser, 1999 - 2004 (Co-advisor)
Dissertation Topic: Molecular biological studies of the Fusarium wilt pathogen of banana in South Africa.
- E. Venter 1999 - 2004 (Co-advisor)
Dissertation Topic: The molecular characterization of interaction between *Fusarium circinatum* and *Pinus patula*.
- J.H. Viljoen, 2000 - 2003 (co-advisor)
Dissertation Topic: Mycotoxins in grain and grain products in South Africa and proposals for their regulation.
- J. de Wet, 2000 - 2008
Dissertation Topic: Molecular studies on the taxonomy, host associations and viruses of the *Diplodia*-like anamorphs of the Botryosphaeriaceae.
- M. Gryzenhout, 2000 - 2006
Dissertation Topic: Taxonomy and phylogeny of *Cryphonectria* and allied genera.
- A. van der Merwe, 2000 - 2011 (Co-advisor)
Dissertation Topic: Molecular phylogeny and population biology studies on the Eucalyptus canker pathogen *Cryphonectria cubensis*.
- A. Gezahgne (Ethiopia), 2000 - 2003 (Co-advisor)
Dissertation Topic: Diseases of exotic plantation forestry trees in Ethiopia.
- M. Bogale (Ethiopia), 2000 - 2005 (Co-advisor)
Dissertation Topic: Molecular characterization of *Fusarium* isolates from Ethiopia.
- M. Marin Montoya (Colombia), 2001 - 2004
Dissertation Topic: Phylogenetic and molecular population biology studies *Ceratocystis* spp. associated with conifer and coffee diseases.
- N. van den Berg, 2001-2004 (co-advisor)
Dissertation Topic: Identification of genes associated with tolerance in the Cavendish banana selection, GCTCV-218, against *Fusarium oxysporum* f. sp. *cubense*, 'subtropical' race 4.
- S. Lezar, 2001 - 2005 (Co-advisor)
Dissertation Topic: Assessment and development of micro-array-based DNA fingerprinting in *Eucalyptus grandis* and related species.
- A. Jacobs, 2001 - 2011 (Co-advisor)
Dissertation Topic: Taxonomy of species within the *Gibberella fujikuroi* complex.

J. Harrison, 2001 - 2014

Dissertation Topic: Phylogeny of the *Pegylina* and taxonomy of selected southern African *Leucopholina* (Coleoptera: Scarabaeidae: Melolonthinae), with an emphasis on genera of agricultural concern.

I. Barnes, 2002 - 2009 (Co-advisor)

Dissertation Topic: Taxonomy, phylogeny and population biology of the red band needle blight pathogen and related species.

S. Mohali (Venezuela), 2002 - 2005

Dissertation Topic: Taxonomy and pathology of *Botryosphaeria* species and their anamorphs from Venezuela.

G. Hunter, 2002 - 2007

Dissertation Topic: Taxonomy, phylogeny and population biology of *Mycosphaerella* spp. occurring on *Eucalyptus*.

M-N. Cortinas (Uruguay) 2002 - 2010 (Co-advisor)

Dissertation Topic: Taxonomy and population genetics of *Teratosphaeria* causing stem cankers on *Eucalyptus*.

L. de Vos, 2002 - 2011 (Co-advisor)

Dissertation Topic: Genetic linkage map and QTL analysis of a cross between *Fusarium subglutinans* and *Fusarium circinatum*.

P. Fandohan (Benin), 2002 - 2006 (Co-advisor)

Dissertation Topic: *Fusarium* infection and mycotoxin contamination in preharvest and stored maize in Benin, West Africa.

Z.W. de Beer 2002 - 2012

Dissertation Topic: Taxonomy and phylogeny of *Ophiostoma* spp. with *Sporothrix* anamorphs and their generic relationships in the Ophiostomatales.

G. Nakabonge (Uganda), 2003 - 2006 (Co-advisor).

Dissertation Topic: A study of *Chrysosporthe* and *Chryphonectria* species on Myrtales in southern and eastern Africa.

M. van Wyk, 2004 - 2013.

Dissertation Topic: Phylogenetic relationships and taxonomy of species in *Ceratocystis sensu lato*.

V. Andjic (Australia), 2004 - 2007 (Co-advisor)

Dissertation Topic: Phylogeny, phylogeography and movement of *Kirramyces* spp. associated with leaf blight diseases of plantation eucalypts.

L. Lombard, 2004 - 2010

Dissertation Topic: Phylogeny and taxonomy of *Calonectria* and its *Cylinderocladium* anamorphs.

R. Ahumada (Chile), 2004 - 2014.

Dissertation Topic: Ecology and management of the pitch canker pathogen, *Fusarium circinatum* in Chile.

R. Heath, 2004 - 2009 (Co - advisor)

Dissertation Topic: *Ceratocystis* species in southern and eastern Africa with particular reference to *Ceratocystis albifundus*.

G. Pegg (Australia) 2005 - 2011 (Co-advisor)

Dissertation Topic: The biology, epidemiology and variability of *Quambalaria* shoot blight of *Corymbia* species.

D. Pavlic, 2005 - 2010 (Co-advisor)

Dissertation Topic: Taxonomy and population diversity of Botryosphaeriaceae associated with woody hosts in South Africa and Western Australia.

- M.A. van der Nest, 2005 - 2010 (Co-advisor)
Dissertation Topic: Mycelial compatability in *Amylostereum areolatum*.
- A. al Adawi (Oman), 2005-2011 (Co-advisor)
Dissertation Topic: Studies on *Ceratocystis* associated with mango die-back in Oman.
- B.P. Hurley, 2005 - 2010 (Co-advisor)
Dissertation Topic: Factors influencing the control of the *Sirex* woodwasps in South Africa.
- R. Nadel, 2006 - 2010 (Co-advisor)
Dissertation Topic: Molecular and chemical ecology of the *Eucalyptus* pest, *Thaumastocoris peregrinus*.
- G. Mitchell, 2006 - 2012
Dissertation Topic: Reducing the risk of pitch canker disease (caused by *Fusarium circinatum*) to *Pinus patula* in South Africa.
- W.Bihon Legesse (Ethiopia), 2007 - 2010 (Co-advisor)
Dissertation Topic: Understanding the global population genetics of *Diplodia pinea* and its life cycle in plantation pines.
- M. Taole (Lesotho), 2007 - 2013 (Co-advisor)
Dissertation Topic: Phylogenetic reassessment and opulation biology of the *Eucalyptus* pathogen *Teratosphaeria suttonii* isolated from diseased *Eucalyptu* leaves.
- D. Begoude (Cameroon) 2007- 2010 (Co-advisor).
Dissertation Topic: Characterization of Botryosphaeriaceae and Chryphonectriaceae associated with *Terminalia* spp. in Africa.
- G. Nuekem-Kamgan (Cameroon), 2007 - 2011 (Co-advisor)
Dissertation Topic: Ophiostomatoid fungi and their insect associates on *Eucalyptus* trees in Australia and South Africa.
- G. Perez (Uruguay), 2007 - 2010
Dissertation Topic: Global genetic diversity of the *Eucalyptus* leaf pathogen *Teratosphaeria nubilosa* species complex in native forests and commercial plantations.
- A. Duran (Chile), 2007 - 2010
Dissertation Topic: Determination and characterization of the causal agent of *Pinus radiata* needle blight in Chile.
- R. Linnakoskii (Finland), 2007 – 2011 (Co-advisor)
Dissertation Topic: Bark beetle-associated fungi in Fennoscandia with special emphasis on species of *Ophiostoma* and *Grosmannia*.
- K. Naidoo, 2007 - 2013 (Co-advisor)
Dissertation Topic: Mitochondrial genomes and concerted evolution in *Ceratocystis*.
- S.F. Chen (China), 2008 - 2011
Dissertation Topic: Fungal diseases of eucalypts in China.
- G. Dittrich-Schröder, 2008 - 2014 (Co-advisor)
Dissertation Topic: Molecular ecology and management of *Leptocybe invasa* (Hymenoptera: Eulophidae).
- C. Rodas (Colombia), 2008 - 2013
Dissertation Topic: Important pests and diseases of plantation-grown *Pinus* and *Eucalyptus* in Colombia and their control.

- E. Cruywagen (nee de Meyer), 2008 - 2016
Dissertation Topic: Diversity and taxonomy of fungi infecting species of *Adansonia* (Baobab).
- F. Jami (Iran), 2008 - 2014
Dissertation Topic: Taxonomy and ecology of Botryosphaeriaceae associated with *Acacia karoo* in South Africa.
- B.L. Castro (Colombia), 2008 - 2014 (Co-advisor)
Dissertation Topic: Diseases of coffee with particular reference to those affecting stems and roots in Colombia.
- Q. Santana, 2008 - (Co-advisor) (converted from an MSc)
Dissertation Topic: Development of population genetics of the pitch canker pathogen, *Fusarium circinatum*.
- M. Konkarn (Thailand), 2010 - 2014 (Co-advisor)
Dissertation Topic: Taxonomy of Ophiostomatoid fungi associated with bark beetles in Thailand, Bhutan and China.
- T. Duong (Vietnam), 2009 - 2013
Dissertation Topic: Phylogenetic and mating type studies on members of the *Leptographium serpens* complex associated with conifer root-feeding bark beetles.
- M. Bouwer, 2010 - 2015 (Co-advisor)
Dissertation Topic: Identification of semiochemicals from four major insect pests of *Eucalyptus* and *Pinus* species in South Africa.
- D. Degefu (Ethiopia), 2010 - 2014 (Co-advisor)
Dissertation Topic: Ecology of the cossid moth, *Coryphodema tristis* on *Eucalyptus nitens* in South Africa.
- G. Fourie, 2010 - 2015 (Co-advisor)
Dissertation Topic: Evolution of mitochondrial genomes in the *Fusarium fujikuroi* species complex.
- M. Mbenoun (Cameroon), 2010 - 2014 (Co-advisor)
Dissertation Topic: Taxonomy and ecology of the Ophiostomatoid fungi on native trees in Cameroon and South Africa.
- J. Mehl, 2010 - 2017
Dissertation Topic: Taxonomy, ecology and population biology of species in the *Lasiodiplodia theobromae* complex.
- S. Taerum (USA), 2010 - 2015
Dissertation Topic: Origin and diversity of the invasive red turpentine beetle and its fungal symbionts.
- M. Wilken, 2010 - 2015 (Co-advisor)
Dissertation Topic: Mating in *Ceratocystis*.
- M.L. Yin (China), 2010 - 2015 (Co-advisor)
Dissertation Topic: Taxonomic revision of four major species complexes in the Ophiostomatales (Fungi, Ascomycota), with specific reference to associates of conifer-infesting bark beetles in China.
- A. Osorio (Colombia), 2011 - 2016 (Co-advisor).
Dissertation Topic: Diseases of mangrove and mangrove associates in South Africa.
- A. Misse (Cameroon), 2011 - 2016 (Co-advisor)
Dissertation Topic: Studies on the role of mites in the ecology of Ophiostomatoid fungi on native African trees.

O. Mlonyeni, 2011 - 2018 (Co-advisor).

Dissertation Topic: Characterization of genetic variability in the *Sirex-Amylostereum-Deladenus* symbioses.

T. Bose (India), 2012 - 2018

Dissertation Topic: *Phytophthora* species diversity associated with native and non-native forests in South Africa.

G. Carstensen, 2012 - 2019 (Co-advisor)

Dissertation Topic: Studies on the ecology of the bacterial wilt pathogen *Ralstonia solanacearum* on *Eucalyptus*.

F. Fru (Cameroon), 2012 - 2018 (Co-advisor)

Dissertation Topic: Population genetics and ecology of *Fusarium circinatum* on *Pinus* species in eastern South Africa.

L. Jimu (Zimbabwe), 2012 - 2016 (Co-advisor)

Dissertation Topic: Diseases and pests of *Eucalyptus* species in Zimbabwe with particular reference to *Teratosphaeria* stem canker.

D.H. Lee (South Korea), 2012 - 2015

Dissertation Topic: Biology of *Ceratocystis albifundus* and *C. pirilliformis* in South Africa.

M. Phasha, 2012 - 2021 (Co-advisor)

Dissertation Topic: Pathogenicity factors of *Fusarium* species.

M. Simpson, 2012 - 2018 (Co-advisor).

Dissertation Topic: Mating in *Ceratocystis fimbriata*.

J. van der Linde, 2012 - 2018 (Co-advisor)

Dissertation Topic: Fungi, insects and abiotic factors associated with the death of *Euphorbia ingens* in South Africa.

B. Abate (Ethiopia), 2013 - 2017 (Co-advisor)

Dissertation Topic: Molecular characterisation and evaluation of entomopathogenic nematodes in South African forestry plantations.

O. Adenigba (Nigeria), 2013 - 2020 (Co-advisor)

Dissertation Topic: The role of peptide pheromones in the biology of *Fusarium*.

R.L. Chang (China), 2013 - 2019 (Co-advisor)

Dissertation Topic: Taxonomy of the Ophiostomatoid fungi associated with conifer-infesting bark-beetles in China.

Z. Human, 2013 - 2019 (Co-advisor)

Dissertation Topic: The ecology of actinomycetes in the infructescences of *Protea repens*.

J. Nagel, 2013 - 2020 (Co-advisor)

Dissertation Topic: Genomics studies on members of the Botryosphaeriaceae.

J. Aylward, 2014 - 2016 (Co-advisor)

Dissertation Topic: Comparative genomics of *Knoxdaviesia* in the core Cape subregion.

A. Fourie, 2014 - 2019 (Co-advisor)

Dissertation Topic: Genetic host specificity.

D. Herron, 2014 - (Co-advisor)

Dissertation Topic: The biodiversity of *Fusarium* spp. occurring in the commercial forestry industry.

F.F. Liu (China) 2014 - 2019

Dissertation Topic: Species diversity and host associations of plant pathogenic *Ceratocystis* species in China.

J. Hulbert (USA) 2015 - 2020

Dissertation Topic: Surveying the diversity and distribution of *Phytophthora* species in the Cape Floral Kingdom with citizen science.

R. Mkadawire, 2015 – 2023 (Co-advisor)

Dissertation Topic: *Fusarium* species associated with malformed inflorescences in *Syzigium cordatum*.

J.Q. Li (China) 2016 - 2020

Dissertation Topic: Investigation of taxonomy, mating types and population biology of *Calonectria* species.

A. Wilson, 2016 - 2019 (Co-advisor)

Dissertation Topic: Unisexual reproduction in species of the *Huntia* genus.

F. Balocchi (Chile) 2017 – 2022 (Co-advisor)

Dissertation Topic: Investigation into the cause of a serious die-back disease of *Araucaria araucana* and the development of a disease management strategy for the problem.

G. Granados (Colombia), 2018 -

Dissertation Topic: Population genomics of pine needle pathogens of importance to forestry in South Africa and Colombia.

Q.L. Liu (China), 2018 - (Co-advisor)

Dissertation Topic: Taxonomy pathogenicity, population diversity and genomics of *Calonectria* species.

G.Q. Li (China), 2018 - (Co-advisor)

Dissertation Topic: Diversity and biology of Botryosphaeriaceae species associated with *Eucalyptus* in southern China.

A. Maduke, 2018 - (Co-advisor)

Dissertation Topic: Botryosphaeriaceae in the Macadamia canopy.

W. Nel, 2018 - 2021 (Co-advisor)

Dissertation Topic: Investigating the Ambrosia beetle-Ophiostomatalean symbioses.

N. Pham (Vietnam), 2018 -

Dissertation Topic: Studies on the biotic factors associated with Eucalyptus Scab and Shoot Malformation (ESSM) in North Sumatra.

Marthin Tarigan (Indonesia), 2019 -

Dissertation Topic: Emerging pathogens threatening *Eucalyptus* and *Acacia* sustainable forest plantations in Indonesia.

Kira Lynn, 2020 - (Co-advisor)

Dissertation Topic: Locomotion of *Ceratocystis* wilt causing a commotion in commercial forestry.

W.W. Li (China) 2021 – (Co-advisor)

Dissertation Topic: Species diversity and population biology of *Calonectria* associated with *Eucalyptus* in southern China.

Cheyenne Theron 2023 – (Co-advisor)

Dissertation Topic: Diseases of kiwi fruit (*Actinidia* spp.) in South Africa.

2.3.3 Master of Science (M.Sc.) Students (thesis topics do not reflect the exact wording of final document titles).

- W.J. Swart, 1985 - 1986 (Informally co-advised)
Thesis Topic: *Sphaeropsis sapinea* with special reference to its occurrence on *Pinus* spp. in South Africa.
- P.W. Crous, 1987 - 1988 (Informally co-advised)
Thesis Topic: Foliage diseases of *Eucalyptus* species.
- E. Conradie, 1989 - 1990 (Co-advisor)
Thesis Topic: *Cryphonectria* canker of *Eucalyptus*. An important disease in plantation forestry.
- N. Nicol, 1989 - 1991
Thesis Topic: The biology and occurrence of *Phaeoseptoria eucalypti* on *Eucalyptus* species in South Africa.
- M. Mouton, 1990 - 1992
Thesis Topic: Conidium development in *Phialocephala* anamorphs of *Ophiostoma* and related fungi.
- E. Benade, 1991 - 1993
Thesis Topic: Conidium development in mycelial anamorphs of *Ophiostoma*.
- C. Linde, 1991 - 1993
Thesis Topic: Diseases of pines and *Eucalypts* in South Africa associated with *Pythium* and *Phytophthora* species.
- M. Joubert, 1991 - 1992
Thesis Topic: The epidemiology of powdery mildew on mango Blossoms.
- A. Cilliers, 1992 - 1994 (Co-advisor).
Thesis Topic: *Lasiodiplodia theobromae* with special reference to its occurrence on *Pinus* seed.
- C. Strydom, 1992 - 1994 (Co-advisor)
Thesis Topic: Molecular characterization of isolates of *Leptographium wageneri* and *Leptographium lundbergii*.
- C. de Beer, 1992 - 1994
Thesis Topic: *Ceratocystis fimbriata* with special reference to its occurrence as a pathogen of *Acacia mearnsii* in South Africa.
- L. van Zyl, 1993 - 1995
Thesis Topic: Some factors affecting the susceptibility of *Eucalyptus* spp. to *Cryphonectria cubensis*.
- H. Smith, 1993 - 1995
Thesis Topic: *Botryosphaeria dothidia* as a pathogen and endophyte of *Eucalyptus* in South Africa.
- W. de Lange, 1993 - 1996 (Co-advisor)
Thesis Topic: Isolation of dsRNA and screening for virulence in infected South African isolates of *Cryphonectria cubensis*.
- J. Roux, 1994 - 1996
Thesis Topic: A preliminary study of the diseases of *Acacia mearnsii* de Wild in South Africa.
- H. (Cassie) Myburg, 1994 - 1997. (Co-advisor)
Thesis Topic: *Cryphonectria cubensis*, a molecular taxonomic and population study.

- E. Steenkamp, 1994 - 1996. (Co-advisor)
Thesis Topic: A preliminary study of hypovirulence and dsRNA in *Sphaeropsis sapinea*.
- K. van der Westhuizen 1994 - 1996
Thesis Topic: Ophiostomatoid fungi associate with Spruce and Larch in Europe, Japan and North America.
- H. Britz, 1995 - 1997
Thesis Topic: *Fusarium subglutinans f.sp. pini*: a taxonomic, molecular and populations study.
- C. Visser, 1993 - 1999 (Co-advisor)
Thesis Topic: Taxonomy of selected species of *Ceratocystis* and *Ophiostoma* based on molecular evidence.
- Z.W. de Beer, 1993 - 2002
Thesis Topic: *Ophiostoma* species from hardwood sources in South Africa.
- B. Slippers, 1996 - 1999
Thesis Topic: The *Amylostereum* symbiont of *Sirex noctilio* in South Africa.
- S. van Heerden, 1997 - 1999
Thesis Topic: Pathogenicity and variation amongst South African isolates of *Cryphonectria cubensis*.
- B. Maseko, 1996 - 1999 (Co-advisor)
Thesis Topic: Oomycetes associated with citrus and *Eucalyptus* root rot in South Africa.
- E. Grimbeek, 1998 - (Co-advisor)
Thesis Topic: Management strategies for Panama wilt disease of Banana in South Africa.
- N.A. van der Merwe, 1998 - 2000 (Co-advisor)
Thesis Topic: Molecular phylogeny and population biology studies on the *Eucalyptus* canker pathogen *Cryphonectria cubensis*.
- M. Venter, 1998 - 2000
Thesis Topic: Taxonomy and pathology of a new species of *Cryphonectria* from *Eucalyptus* in South Africa.
- J. de Wet, 1998 - 2000
Thesis Topic: Studies on the diversity and biology of the pine pathogen *Sphaeropsis sapinea*.
- R. Jacobs, 1998 - 2001
Thesis Topic: Characterization of *Botryosphaeria* species from mango in South Africa.
- N. Geldenhuis, 1999 - 2005 (Co-advisor)
Thesis Topic: Studies on fungi associated with dying *Schizolobium parahybum* in Ecuador.
- G. Hunter, 2000 - 2002
Thesis Topic: *Mycosphaerella* species causing leaf blotch on *Eucalyptus* in South Africa.
- I. Barnes, 2000 - 2002
Thesis Topic: Taxonomy, phylogeny and population biology of *Ceratocystis* species with particular reference to *Ceratocystis fimbriata*.
- R. Scherman, 2000 - 2002 (Co-advisor)
Thesis Topic: Taxonomy of Botryosphaeriaceous fungi on mango.

- R. Heath, 2001 - 2003 (Co-advisor)
Thesis Topic: Studies to consider the possible origin of three canker pathogens of *Eucalyptus* in South Africa.
- R. Ahumada (Chile) 2001 - 2002
Thesis Topic: Diseases in commercial *Eucalyptus* plantations in Chile with special reference to *Mycosphaerella* and *Botryosphaeria* species.
- G. Nakabonge (Uganda) 2001- 2003 Co-advisor)
Thesis Topic: Diseases associated with plantation forestry in Uganda.
- C. Rodas (Colombia), 2001 - 2003
Thesis Topic: Diseases of *Eucalyptus* in Colombia.
- B. Hurley, 2000 - 2005 (Co-advisor)
Thesis Topic: Fungus gnats in forestry nurseries and their possible role as vectors of *Fusarium circinatum*.
- M. van Wyk, 2002 - 2003
Thesis Topic: Taxonomy and population biology of selected *Ceratocystis* spp. with hat-shaped ascospores.
- A. Hammerbacher, 2002 - 2005 (Co-advisor)
Thesis Topic: The ecology and epidemiology of *Fusarium circinatum*, the causal agent of pitch canker of pine.
- L. Lombard, 2002 - 2003 (Co-advisor)
Thesis Topic: Fungal diseases in *Eucalyptus* and *Acacia* nurseries in South Africa.
- D. Pavlic (Yugoslavia), 2002 - 2005. (Co-advisor)
Thesis Topic: *Botryosphaeria* species on native South African *Syzygium cordatum* and their potential threat to *Eucalyptus*.
- L. Maphosa (Zimbabwe), 2002 - 2005 (Co-advisor)
Thesis Topic: Molecular and biochemical characterization of *Armillaria*.
- J. Grobbelaar 2004 - 2009 (Co-advisor)
Thesis Topic: Taxonomy, phylogeny and species diversity in the *Ophiostoma quercus* complex.
- D. Gomez (Colombia) 2004 - 2012
Thesis Topic: Taxonomic and phylogeographic studies on *Leptographium* and *Pesotum* spp. associated with conifer-infesting bark beetles in China.
- M. Kvas 2005 - 2010 (Co-advisor)
Thesis Topic: Characterization of *Fusarium* species associated with floral malformation of *Syzygium cordatum*.
- J.W.M. Mehl 2005 - 2010
Thesis Topic: Fungi associated with the die-back of *Pterocarpus angolensis* (Kiaat) in South Africa.
- N. van Zuydam, 2006 - 2009 (Co-advisor)
Thesis Topic: Identification of *Leptographium* species by Mismath discrimination on an Oligonucleotide microarray.
- M. Wilken, 2006 - 2009 (Co-advisor)
Thesis Topic: Identification and application of mating type gene sequences in *Ophiostoma*.

- F. van der Walt, 2006 - 2009 (Co-advisor)
Thesis Topic: Botryosphaeriaceae associated with *Acacia* species in southern Africa with special reference to *A. mellifera*.
- V. Muthelo, 2006 - 2009 (Co-advisor)
Thesis Topic: Molecular characterization of *Ganoderma* species.
- H. Maleme, 2006 - 2009 (Co-advisor)
Thesis Topic: Characterization of latent *Botryosphaeriaceae* on diverse *Eucalyptus* species.
- M. Tarrigan (Indonesia), 2006 - 2008
Thesis Topic: Ceratocystis and Botryosphaeriaceae on plantation *Acacia* species in central Sumatra., Indonesia.
- M. Vermeulen, 2007 - 2011 (Co-advisor)
Thesis Topic: Diversity and host range of the Cryphonectriaceae in southern Africa.
- Q. Santana, 2008 - (Co-advisor) [converted to Ph.D. 2009]
Thesis Topic: Development of population genetic of the pitch canker pathogen, *Fusarium circinatum*.
- O.X.M. Mlonyeni 2008 - 2011 (Co- advisor)
Thesis Topic: High throughput development of population genetic markers for the *Sirex noctilio* woodwasp and its nematode parasite *Deladenus siricidicola*.
- S. Martin, 2008 - 2011 (Co-advisor)
Thesis Topic: Mating type and pheromone genes in the *Gibberella fujikuroi* species complex: an evolutionary perspective.
- D. Herron, 2009 - 2014 (Co-advisor)
Thesis topic: Characterization of *Fusarium* species from *Pinus* and *Eucalyptus* nurseries in Colombia and South Africa.
- J. van der Linde, 2009 - 2010 (Co-advisor)
Thesis topic: Factors associated with the decline of *Euphorbia ingens* in the Limpopo Province of South Africa.
- K-A. Pillay, 2010 - 2012 (Co-advisor)
Thesis topic: Diversity and spatial distribution of fungal endophytes in a *Eucalyptus grandis* tree.
- A. Marsberg, 2010 - 2012 (Co-advisor)
Thesis topic: Diversity and distribution of fungal endophytes associated with native *Syzigium cordatum* in South Africa.
- J. Nagel, 2010 - 2012 (Co-advisor)
Thesis topic: Species of *Phytophthora* associated with a native ecosystem in Gauteng.
- K. Baffoe (Cameroon), 2010 - 2012 (Co-advisor)
Thesis Topic: Establishment of *Selitrichoides neseri* for the biological control of the bluegum chalcid *Leptocybe invasa*.
- M. Simpson, 2011 - 2012 (Co-advisor)
Thesis topic: Microsatellite analysis of *Ceratocystis fimbriata*.
- S. Mause Siteo (Mozambique), 2011 - 2015 (Co-advisor)
Thesis Topic: Fungal diseases of *Eucalyptus* in Mozambique with particular reference to the *Cryphonectriaceae*.

- A. Wooding, 2011 - 2014 (Co-advisor)
Thesis Topic: Studies on the biology of the wood wasp, *Sirex noctilio* and its nematode biological control agent, *Deladenus siricidicola*.
- T. Hall, 2011 2013- (Co-advisor)
Thesis topic: Structure of mating genes in members of the *Ceratocystis fimbriata* complex.
- A. Fourie, 2012 - 2014 (Co-advisor)
Thesis Topic: Distinguishing between cryptic species in the *Ceratocystis fimbriata sensu lato* species complex.
- J. Aylward, 2012 - 2014 (Co-advisor)
Thesis Topic: Population biology of *Knoxdaviesia* spp. in *Protea infructescens*.
- L. Maubane 2012 - 2016 (Co-advisor)
Thesis Topic: Pine needle fungal endophytes including species of *Lophodermium*.
- V. Siziba, 2013 2015- (Co-advisor)
Thesis Topic: Taxonomy and population genetics of the pine needle pathogen *Dothistroma pini*.
- D. Ali (Nigeria), 2014 - 2017 (Co-advisor)
Thesis topic: Cryphonectriaceae associated with Melastomatales in Indonesia and La Reunion.
- N.Y. Musarira (Zimbabwe), 2014 - 2017 (Co-advisor)
Thesis Topic: Population genetic studies on *Armillaria* root rot pathogens in South Africa.
- K. Sanasi, 2014 - 2018 (Co-advisor)
Thesis Topic: Fungal associates of pine bark beetles in Guatemala.
- M.R.A. Rauf (Malaysia), 2015 - 2018
Thesis Topic: Diseases of forestry importance to Malaysia.
- C. Trollip 2015 - 2017 (Co-advisor)
Thesis Topic: Phylogenomics in *Ceratocystis* and a segregation analysis of *C. eucalypticola*.
- W. Nel, 2016 - 2017 (Co-advisor)
Thesis Topic: Taxonomy and biology of the plant pathogenic fungus *Thielaviopsis basicola*.
- N. Pham (Vietnam), 2016 - 2018
Thesis Topic: *Calonectria* species from Vietnam.
- S. Morgan, 2017 - 2020 (Co-advisor)
Thesis Topic: *Quambalaria* species from *Eucalyptus* and *Gonipterus* weevils in South Africa.
- C. Tatham, 2017 - 2019 (Co-advisor)
Thesis Topic: Mat locus and population markers in *Teratosphaeria destructans*.
- C Theron, 2020 – 2022 (Co-advisor)
Thesis Topic: Development of a LAMP assay for on-site diagnosis of the novel *Eucalyptus* pathogen, *Elsinoë necatrix* using the elsinochrome toxin cluster as a marker.
- N van Vuuren, 2020 – 2022 (Co-advisor)
Thesis Topic: Fungal diversity in Namibian *Stipagrostis* “fairy circles” including the description of a new *Curvularia* species.

A van Heerden, 2021 - (Co-advisor)

Thesis Topic: Development of a LAMP assay for on-site diagnosis of the novel *Eucalyptus* pathogen, *Elsinoë necatrix* using the elsinochrome toxin cluster as a marker.

C Ceriani, 2022 - (Co-advisor)

Thesis Topic: The population genetic analysis of the introduction of the pitch canker pathogen, *Fusarium circinatum*, into Colombia.

Monique Muller 2023 - (Co-advisor)

Thesis topic: Studies on the population genetics of the pine needle pathogen *Dothistroma pini*.

Deanne du Plessis 2023 - (Co-advisor)

Thesis topic: Genome comparisons on the three *Leptographium* spp. causing black stain root disease and infection biology *Leptographium wagneri* var *wagneri*.

L del Mar Angel Salazazar 2023 – (Co-advisor)

Thesis topic: Diseases of trees and root crops caused by *Ceratocystis* species.

A Piso 2023 – (Co-supervisor)

Thesis topic: Pine needle diseases of Colombia.

T Fuchs 2023 – (Co-advisor)

Thesis Topic: Investigations on the epidemiology of clinically-relevant *Sporothrix* species in South Africa

2.3.4 Post Doctoral Fellows, sabbatical and research visitors

Dr. W. Bryce Kendrick (University of Waterloo, Ontario, Canada)
Sabbatical Research Visitor, December 1993 - August 1994.

Dr. Teresa Coutinho (Ph.D. University of Natal)
Post Doctoral Fellow, January - December 1994.

Dr. Vu Nuygen Thanh
Post Doctoral Fellow, August 1994 - August 1996.

Dr. G. Zhao (Nanjing Forestry University, PR China)
Visiting Research Scientist, 1994 - October 1996.

Dr. O. Preisig (Ph.D. ETZ Zurich, Switzerland)
Post Doctoral Fellow, October 1995 - October 1997 and **University of Pretoria Research Fellow**, January 1998 - December 1999.

Dr. M. Wolfaardt (Ph.D. University of Pretoria)
Post Doctoral Fellow, January 1996 - June 1998.

Dr G. Carroll (University of Oregon)
Sabbatical Research Visitor, June 1996 - October 1997.

Dr T.C. Harrington (Iowa State University, USA)
Sabbatical Research Visitor, January 1997 - June 1997.

Dr G. Hudler (Cornell University, Ithaca, NY, USA)
Sabbatical Research Visitor, July 1997 - January 1998.

Dr Dennis Wilson (Ph.D. University of Oregon and Research Scientist, Arizona State University; University of Pretoria)
Visiting Research Fellow, February 1998 - March 1999).

Dr Anupama Gaur (Ph.D. Delhi India)

Post Doctoral Fellow July 1998 - December 1999.

Dr Li Hong, (Ph.D. Nanjing Agricultural University)

Post Doctoral Fellow, January 1998 - December 1999.

Dr Jinbao Chen (Ph.D. Nanjing Agricultural University)

Post Doctoral Fellow, January 1998 - December 1999.

Dr. Gerard Adams (University of Michigan, USA)

Sabbatical Research Visitor, August 1998 - June 1999.

Dr. Treena Burgess (Ph.D. University of Western Australia)

University of Pretoria, **Visiting Research Fellow**, January 1999 - December 2000.

Visiting scientist, yearly terms from 2001 - 2008.

Mr. Aaron Maxwell

Visiting Ph.D. Student, Murdoch University, Perth Australia. March - May 1999.

Dr. Gwen Koning, (Ph.D., Kansas State University, USA)

Post Doctoral Fellow, October 1999 - October 2002.

Dr. Gerard Adams (University of Michigan, USA)

Sabbatical Visitor. October 2000 - December 2000.

Dr. Solomon Gebeyehu (Ph.D., University of Natal, South Africa)

Post Doctoral Fellow, January 2002 - December 2003.

Dr. Dilzara Agayeva (Ph.D. Azerbaijan)

Post Doctoral Fellow, January 2002 - December 2003.

Dr. Karin Jacobs (Ph.D. University of Pretoria)

Post Doctoral Fellow (with B. Wingfield) July 2002 - July 2004.

Dr. Zhou Xu-Dong (Ph.D., University of Pretoria)

Post Doctoral Fellow January 2003 - December 2004.

Dr. Louwrance Wright (Ph.D., University of Pretoria)

Post Doctoral Fellow, August 2002 - December 2004.

Dr. Treena Burgess, (Ph.D. University of Western Australia)

Visiting Researcher, August 2002.

Dr Solomon, Gebeyehu (Ph.D. University of Natal)

Post Doctoral Fellow, January 2002 - June 2004.

Dr. Bernard Slippers (Ph.D., University of Pretoria)

Post Doctoral Fellow at University of Upsala with Prof. Dr. Jan Stenlid

June 2003 - September 2005.

Dr. W. Maier (Ph.D., University of Tübingen, Germany)

Post Doctoral Fellow, (with Prof. B. Wingfield). January 2004 -

Dr. M.P.A. Coetzee, (Ph.D., University of Pretoria)

Post Doctoral Fellow (with Prof. B. Wingfield), January 2004 - December 2005.

University of Pretoria Research Fellow January 2006 - December 2010.

Dr. Karin Jacobs (Ph.D., University of Pretoria)

Senior Researcher (with Dr. Gert Marais) and the newly established Centre for Advanced Mycological Studies (CAMS), University of Pretoria. June 2002 - December 2004.

Dr. Seonju Lee (Ph.D., University of Georgia, USA)

Post Doctoral Fellow, December 2004 - December 2007.

Dr. Solomon Gebeyehu (Ph.D. University of Natal)
Sappi Post Doctoral Research Fellow, January 2005 - December 2006.

Dr. Xu Dong Zhou (Ph.D., University of Pretoria)
Sappi Post Doctoral Research Fellow, January 2005 - December 2006.

Dr. Diana Six, (Montana State University, USA)
Sabbatical Visitor, October 2004 - April 2005.

Dr. Ursula Heineger (Switzerland)
Sabbatical Visitor, November 2004 - February 2005.

Dr. Dale Bergdahl (University of Vermont)
Sabbatical Research Visitor, January 2005 - March 2005.

Dr. Mesfin Bogale (Ph.D. University of Pretoria)
Post Doctoral Fellow (with Prof. B.D. Wingfield), January 2006 - .

Dr. Francois Roets (Ph.D., University of Stellenbosch)
Post Doctoral Fellow, with Prof. B.D. Wingfield and Dr. L. Dreyer, 2005 - 2008.

Dr. Marieka Gryzenhout (Ph.D., University of Pretoria)
Post Doctoral Fellow, June 2007- December 2009.

Dr. Gavin Hunter (Ph.D., University of Pretoria)
Post Doctoral Fellow, March 2007 - March 2009, with Prof. P.W. Crous and based at the Centraalbureau voor Schimmelcultures, Utrecht, Holland.

Dr. Eunsung Oh (Ph.D., Oregon State University, USA)
Post Doctoral Fellow, January 2009- December 2010, with Prof. B.D. Wingfield and Prof. B. Slippers.

Dr. Martin Kemler, (Ph.D., RUB, Berlin, Germany)
Post Doctoral Fellow, December 2010 - with Prof. Bernard Slippers.

Dr. Pedro Romon (Ph.D., Neiker, Vittoria, Spain)
Post Doctoral Fellow, January 2011 - with W. de Beer.

Dr. Xongzing Zhang (Ph.D. Chinese Academy of Science, Beijing, China)
Post Doctoral Fellow, January 2011 - 2012 with Prof. B. Slippers.

Dr. Mesfin Bogale (Ph.D., University of Pretoria)
Post Doctoral Fellow, November 2010 - 2012 with Prof. B. Wingfield.

Dr. Shuaifei Chen (Ph.D., University of Pretoria)
Post Doctoral Fellow, February 2011 - 2012 with Prof. J. Roux.

Dr. Irene Barnes (Ph.D., University of Pretoria)
University of Pretoria Research Fellow, January 2011 - with Prof. B.D. Wingfield.

Dr. Wubetu Bihon Legesse (Ph.D., University of Pretoria)
Claude Harris Post Doctoral Fellow, 2012 - 2013, with Prof. B.D. Wingfield.

Dr. Lieschen De Vos (Ph.D., University of Pretoria)
Post Doctoral Fellow, 2012 - 2013, with Prof. B.D. Wingfield.

Dr. Gilbert Kamgan (Ph.D., University of Pretoria)
Post Doctoral Fellow, 2012 - 2013, with Prof. J. Roux.

Dr. Lucas Shuttleworth, (Ph.D., University of Sydney)
Post Doctoral Fellow, 2013 - 2014, with Prof. B.D. Wingfield.

Dr. Riikka Linnakoski, (Ph.D. Joensuu University, Finland)

Claude Harris Post Doctoral Fellow, 2013 - 2014, with Dr. Z.W. de Beer.

Dr. Stuart Fraser, (Ph.D. University of Bangor, Wales, UK)

Post Doctoral Fellow, 2015 - 2017, with Prof. J. Roux.

Dr Maria Vivas, (Ph.D., University of Vallilodid, Spain)

Post Doctoral Fellow 2015 - 2017, with Prof. B. Slippers.

Dr. Alistair McTaggart, (Ph.D. University of Queensland, Australia)

Post Doctoral Fellow, 2015 - 2017, with Prof. J. Roux.

Dr. Casper Crous, (Ph.D., University of Stellenbosch)

Post Doctoral Fellow, 2016 - 2017.

Dr. Trudy Paap, (Ph.D., Murdoch University, Australia)

Post Doctoral Fellow, 2016 -

Dr. Janneke Aylward, (Ph.D., University of Stellenbosch)

Post Doctoral Fellow, 2017 -

Dr. Markus Wilken, (Ph.D., University of Pretoria)

Claude Harris Post Doctoral Fellow, 2016 - 2020, with Prof. B.D. Wingfield.

Dr. Fahimeh Jami, (Ph.D., University of Pretoria)

Post Doctoral Fellow 2014 - 2021 with Prof. P. Crous.

Dr. Michele Schröder, (Ph.D., University of Pretoria)

PostDoctoral Fellow 2015 -, with Prof Bernard Slippers and Prof Brett Hurley

Dr. Gudrun Dittrich-Schröder, (Ph.D., University of Pretoria)

Post Doctoral Fellow 2015 - with Prof. Bernard Slippers

Dr. Gerda Fourie, (Ph.D., University of Pretoria)

Post Doctoral Fellow 2016 - 2017, with Prof. Emma Steenkamp

Dr. DonHyeon Lee (Ph.D. University of Pretoria)

Post Doctoral Fellow 2016 - 2017, with Prof. Brenda Wingfield

Dr. Duccio Migliorini (Ph.D., University of Florence, Italy)

Post Doctoral Fellow 2017 - 2018, with Prof. Treena Burgess

Dr. Elsie Cruywagen (Ph.D. University of Pretoria)

Post Doctoral Fellow 2017, with Prof. Bernard Slippers

Dr. Mesfin Gossa (Ph.D. University of Pretoria)

Post Doctoral Fellow 2018 – 2022.

Dr. Neriman Yilmaz (Ph.D. Utrecht University, the Netherlands)

Post Doctoral Fellow 2018 - , with Prof. Pedro Crous and Prof. Bernard Slippers

Dr. Gabrielle Carstensen (Ph.D. University of Pretoria)

Post Doctoral Fellow 2018 - 2020

Dr. Tanay Bose (Ph.D. University of Pretoria)

Post Doctoral Fellow 2018 - 2020, with Prof Bernard Slippers and Prof. Jolanda Roux

Dr. FeiFei Liu (Ph.D. University of Pretoria)

Post Doctoral Fellow 2018 - 2020, with Prof. ShuaiFei Chen, Prof. Brenda Wingfield and Dr Tuan Duong

Dr. Hiroyuki Suzuki (Ph.D. University of Tsukuba, Japan)

Post Doctoral Fellow 2019 - 2022 (Supervisor) with Prof. B.D. Wingfield

Dr. Wilma Nel (Ph.D. University of Pretoria)
Post Doctoral Fellow 2020 - (Co-supervisor) with Prof. Bernard Slippers, Prof. Z.W de Beer, Prof. Brett Hurley and Dr Neriman Yilmaz

Dr. Andi Wilson (Ph.D. University of Pretoria)
Post Doctoral Fellow 2020 - (Co-supervisor), with Prof. B.D. Wingfield

Dr. Ariska van der Nest (Ph.D. University of Pretoria)
Post Doctoral Fellow 2022 - (Supervisor) with Prof. I. Barnes

Dr. Felipe Balocchi (Ph.D. University of Pretoria)
Post Doctoral Fellow 2022 - (Line manager)

3. RESEARCH GRANTS AND PROFESSIONAL SERVICES

3.1 Research Grants

S.A. Department of Agriculture education bursary, 1976, 1977.

Research grant from U.S.D.A. Forest Service, 1980-1982 to support pine wood nematode research. Approximately \$25,000.

American Phytopathological Society Travel Grant (\$1000) to attend the Fourth International Congress of Plant Pathology (ICPP), Melbourne Australia, August 1983.

University of Minnesota, International Programs Grant (\$500) to attend ICPP, 1983.
 American Phytopathological Society Travel Grant (\$1800) to attend annual meeting at Reno, Nevada 1985.

Recipient of Foundation for Research Development, President's Award and associated grant, 1989-1992.

Five-year contract to conduct Tree Pathology Research and provide diagnostic services on behalf of SAPPI Ltd., Mondi Ltd., H.L. and H. Forest Products Ltd and South African Forestry Company Ltd, 1990-1994. Renewed indefinitely 1995 onwards. Based on accomplishments, new members Central Timber Co-operative Ltd. and Department of Water Affairs and Forestry (now Department of Agriculture, Fisheries and Forestry) from 1997 onwards.

Comprehensive research grant award from the Foundation for Research Development, 1993-1996.

Contract from SANDOZ Products to conduct research on fungi of interest in biological pulping processes, 1993 - 1994.

Contract from South African Wattle Growers Union to study the impact and significance of wattle diseases in South Africa, 1993 onwards.

Incumbent of Mondi Paper Company Ltd., *ad hominum* chair in Forest Pathology, 1994 - 1996. Based on accomplishments, renewed in 1997 for a further three-year term. Re-established at University of Pretoria, July 1998 for a three-year term. Reinstated for a further three-year term from January 2001 - 2003. Subsequently for two five-year (2005-2009; 2010-2104) terms.

Research Grant for Student Travel Expenses, South African Forestry Council (Forest Owners Association), 1992 onwards.

Award of R500,000 from Sappi Forests towards construction of Tree Pathology Research Facility, 1993 - 1998.

Grant from North Eastern Cape Forests to study Old Lands Syndrome. 1994--1995.

Recipient of Ernest Oppenheimer Travelling Grant, 1994.

USDA Forest Service Grant with Dr. C. Ocamb to study biological control of pine nursery pathogens 1995 - 1996.

USDA grant with Dr T.C. Harrington (Iowa State University) to study *Ceratocystis* spp. pathogenic on trees. 1996 - 1998.

Comprehensive grant from the South African Forestry Company (SAFCOL) to pursue research on *Botryosphaeria* canker of *Eucalyptus*. 1995 - 2000.

Grant from the Forest Owners Association (South Africa), later Forestry South Africa to promote forest pathology field extension services, 1996 onwards.

Grant from the Department of Water Affairs and Forestry (later Department of Agriculture, Forestry and Fisheries), to study diseases of trees in Native environments, 1997 onwards.

Grant from SAFCOL to undertake research on sapstain of pine lumber. 1997 onwards.

Matching grants for Industry research projects from Department of Trade and Industry (DTI) THRIP Programme, 1997 - onwards. Successfully renewed every three years after external review with the latest round 2013-2015.

Grant from the University of Pretoria to build and establish the new Forestry and Agricultural Biotechnology Institute (FABI), 1997 and 1998. Total approximately R10 million.

ACIAR (Australian Centre for International Agricultural Research) Grant to undertake studies on Eucalyptus Rust (*Puccinia psidii*). December 2000 - 2002.

Grant from the China/ South Africa bilateral agreement to undertake research on pine-infesting bark beetles in China. April 2001 - April 2002. Extended through 2003.

Grant from the Norway/ South Africa bilateral agreement to undertake research on conifer infesting bark beetles in Norway and South Africa. August 2002 - August 2005.

Grant from the Sweden/ South Africa bilateral agreement to undertake research on the Sirex wood wasp together with colleagues at the University of Upsala. August 2003 - August 2005.

Grant from Sappi Ltd. to fund two senior researchers working in the field of Forest Protection for a five-year term. January 2005 - December 2006.

Awarded one of the first six Department of Science and Technology, National Research Foundation Centres of Excellence. Centre of Excellence in Tree Health Biotechnology (CTHB) thus having comprehensive funding for a period of ten years or longer, with a review at five years. 2004 onwards. Review successfully completed in 2009 and funding granted up to the end of 2014. Renewed after review until 2019.

Award by the University of Pretoria of a grant linked to the Centre of Excellence making it possible to employ two senior academic staff to work in the CTHB. January 2005 onwards.

Award from the South African Department of Science and Technology to support the office of the President of the International Union of Forest Research Organisations (IUFRO). 2014 - 2019.

Award from the Timber Marketing Board to support the appointment of a researcher to work on the Sirex wood wasp, *Sirex noctilio*. 2005-2009.

Grant from the China-South Africa bilateral agreement to undertake research on *Eucalyptus* diseases in China. 2006 - 2008.

Grant from Royal Golden Eagle (RGE) International to undertake research on plantation tree diseases in Indonesia. 2018 - 2023.

Grant from the Harry Oppenheimer Foundation linked to receipt of the Harry Oppenheimer Award. 2023-2024.

Grant from the University of Florida, Gainesville, Florida, USA to support sabbatical research leave during 2024.

3.2 Symposia and Congress Sessions Convened or Chaired

By invitation have chaired sessions and conducted workshops at annual Congresses of the South African Society for Plant Pathology almost every year from 1985 onwards.

By invitation, organised and convened Pine Wood Nematode symposium, American Phytopathological Society, Reno, Nevada 1985.

By invitation, convened and chaired a session on "Insect pathogen interaction in tree disease" at the fifth ICPP, Kyoto, Japan 1988.

By invitation chaired a session at the biennial congress of the South African Society for Microbiology, 1990.

Convenor with Drs. K.A. Seifert (Canada) and J.F. Webber (U.K.) of International Symposium on the Taxonomy and Ecology of the Ophiostomatales. Bad Windsheim, West Germany, August, 1990.

By invitation, chair and co-convenor of Session F-3, Forest Pathology - Mycological Aspects of the Fifth International Mycological Congress, Regensburg, West Germany. September, 1990.

Foundation for Research Development, Student Biotechnology Conference, Johannesburg, June 1993.

Convenor and Chair, Symposium "Recent Advances in the taxonomy of the Ophiostomatoid fungi" Fifth International Mycological Congress, Vancouver, British Columbia, August 1994.

Chair, Poster Presentations, Taxonomy of the Ascomycetes, Fifth International Mycological Congress, Vancouver, British Columbia, August 1994.

Chair, session on plant diseases, Third Regional Mycology congress, Harare, March 1995.

Organising Committee - IUFRO Symposium "Physiology and Genetics of Tree-Phytophage interactions" Arcachon, France, September 1997.

Organising Committee - Symposium on Sustainability of Pine Forests in Relation to Pine Wilt and Decline. Tokyo, October 1998.

Invited spokesperson for a USA Media Conference on the impact of alien invasions in plant ecosystems, International Botanical Congress, St Louis Missouri, August 1999.

Invited co-chair with Dr. E. Liew for session on "Sequence or Structure?". Asian Mycological Congress, Hong Kong, August 2000.

Congress Scientific Committee for IUFRO World Congress, 200-2005.

Co-organiser with Dr. Keith Seifert of a symposium on the Ophiostomatoid fungi. Sixth International Mycological Congress (IMC 6), Oslo August 2002.

Co-organiser with Dr Paul Taylor. Symposium on plant pathogenic fungi. Congress of the Asian Mycological Society, Kunming, November 2002.

Co-organiser with Dr. Kier Klepzig (Louisiana, U.S.A.). Symposium on bark beetle fungus interactions. International Congress of Entomology, Brisbane August 2004.

Co-organiser with Dr. Andre Drenth. Plant Pathology and Forest Pathology sessions at the Asian Mycological Congress (AMC), Chaing Mai, November 2004.

Co-organiser with Dr. Dan Robison (North Carolina State University, USA), Session on biological invasions in plantation forestry. IUFRO World Congress, Brisbane, July 2005.

Organiser with Dr. Jan Stenlid, Upsala, Sweden of a Symposium on forest pathogens for the IUFRO Forest Biotechnology Meeting, Pretoria, South Africa. November 2005.

Organiser with Dr. Keith Seifert, Canada of the International Symposium: "*Ceratocystis* and *Ophiostoma*: Expanding Frontiers". Stradbroke Island, Brisbane, Australia. August 2006.

Organising Committee, IUFRO Symposium on *Eucalyptus* improvement. Durban, November 2007.

Organising Committee for Forest Entomology (with Dr. A. Liebhold and Dr. D. Robison) programme, International Congress of Entomology, Durban, South Africa. November, 2008.

Organising Committee for Forest Pathology Session, International Congress of Plant Pathology, Torino, Italy, August 2008.

Congress Scientific Committee (CSC), IUFRO World Congress, Seoul, Korea. September 2010.

Organising Committee, IUFRO Division 7.3 (Forest Entomology) meeting and field excursion. July, 2008, South Africa.

Organising Committee, Forest Biosecurity meeting, Rotorua, New Zealand, April 2009.

Organising Committee, IUFRO WP 7.2.02, "Global Change and Forest Diseases: New threats, new opportunities. Pallencia, Spain, May 2011.

Organising Committee. IUFRO All Division 7.2 (Forest Pathology) and All Division 7.2 (Forest Entomology), Uruguay, November 2011.

Organising Committee, IUFRO/FORNESSA. Africa Congress, Nairobi, Kenya, July 2012.

Congress Scientific Committee (CSC), IUFRO World Congress, Salt Lake City, Utah, USA, November 2013.

Organising Committee, IUFRO Symposium on *Eucalyptus* improvement. Montpellier, France, September 2018.

3.3 Invited Research Visits and Consultancies

Consultant to the Lesotho Woodlot Project, 1986.

Consultant to Forestry Division, Lesotho. 1988.

Regular consultant to forestry companies in South Africa including SAPPI, Mondi Forests, South African Forestry Company (SAFCOL) and H.L. and H. Forest Products, South African Wattle Growers Union, Natal Co-operative Timber Growers, 1988 onwards.

Consultant to City Council of Cape Town, 1990 and 1991.

Invitation to visit various forestry companies and Universities in Brazil, February 1990.

Invited guest and consultant to Shell Forestry, Chile, March, 1990.

Invitation to inspect plantations owned by the CELBI forestry company, Portugal and to provide advice-developing strategies to reduce the impact of diseases, August, 1990.

Invitation by National Science Council (Taiwan) to undertake a lecture and research tour of Taiwan, April 1991.

Invitation to inspect plantations of forestry companies in Southern Brazil, August 1991.

Invited guest of the Department of Plant Pathology, University of Tsukuba, Japan, July 1992.

Invitation to inspect plantations owned by Thai Stora, Thailand and to provide advice on strategies to reduce the impact of disease, July, 1992.

Invited guest of the Department of Plant Pathology, Kasetsart University, Bangkok, Thailand. July 1992.

Consultant to Smurfit Carton de Colombia to evaluate *Eucalyptus* diseases, March 1993.

Invited guest of Department of Plant Pathology, University of Brasilia, Brazil, April 1993.

Invited guest of Department of Plant Pathology, University of Viscosa, Viscosa, Brazil, April 1993.

Invited guest, Institutes of Microbiology and Forestry, Swiss Federal Institute of Technology, Zurich, April 1993.

Invited guest, Department of Plant Pathology and U.S. Forest Service, North Central Forest Experiment Station, St. Paul, Minnesota, May 1994.

Invited Guest, Faculty of Forestry, University of Vermont, May, 1994.

Invited Guest, Department of Biology, Duke University, North Carolina, May 1994.

Invited to undertake a biotechnology fact-finding mission in Swaziland, Botswana and Mozambique for Foundation for Research Development and UNESCO, March, 1995.

Assessor on *Eucalyptus* diseases to Smurfit, Carton de Colombia and Smurfit Carton de Venezuela, May, 1995.

Invited guest researcher, BOKU, Vienna, Austria, July 1995.

Invited guest researcher, Norsk Institut for Skogforskning, As, Norway. August 1995.

Expert Consultant, Food and Agriculture Organisation (FAO) to establish guidelines for the safe movement of *Eucalyptus* germplasm. Bangkok, October 1995.

Invited guest, Royal Forestry Department, Thailand, October 1995.

Invited guest, Forest Research Institute of Malaysia, October, 1995.

Assessor on *Eucalyptus* diseases to P.T. Inti Indorayon Utama, Sumatera, Indonesia. February 1996.

Invited primary "opponent" for the defence of the Doctoral examination of P. Krokene, University of Oslo, Norway. June 1996.

Invited delegate, CAMCORE (Central American and Mexican Conifer Research) Annual meeting, Indonesia, October 1996.

Invited guest of the New Zealand Forestry Industry to participate in a workshop on Pitch Canker. New Zealand, November 1996.

Assessor on plantation diseases to P.T. Inti Indorayon Utama, Sumatra, Indonesia. April, July and December 1997.

Assessor on Plantation Diseases to Smurfit Carton de Colombia and Smurfit Carton Y Papel de Mexico, February, 1997.

Assessor on tree diseases to Fundacion Forestal, Juan Manuel Durini, Ecuador. May 1997, February 1998.

Advisor to CALM, Western Australia on *Phytophthora* die-back, August 1997.

Assessor on Plantation diseases, Smurfit Carton de Colombia, May 1998 and May 1999.

Visit to Japan and United States to advise SAFCOL on pine sapstain problems. April 1998.

Assessor on tree diseases to Fundacion Forestal, Juan Manuel Durini, Ecuador, March 1999.

Assessor on *Eucalyptus* diseases, Shell CAPSA Argentina, January 1999.

Assessor on tree diseases, Uruguay, June 1999.

Invited guest and symposium speaker, Fundacion Forestal Juan Manuel Durini, Ecuador, September 1999.

Assessor on *Eucalyptus* disease problems, Sociedad Productores Forestales, Uruguay, December 1999.

Assessor on diseases of forest trees in Ecuador, Fundacion Forestal, Juan Manuel Durini, February 2000.

Advisor on pitch canker in Chile, Controladores Plagas Forestales, Chile, April 2000.

Advisor on diseases of forest trees and guest lecturer in Mexico, various forestry companies and Universities in Mexico, June, 2000.

Advisor on diseases in *Eucalyptus* plantations in Hawaii, Forest Solutions, Hawaii, September 2000.

Participant in a team of advisors on *Eucalyptus* diseases in Thailand and Vietnam organised and funded by CSIRO and ACIAR, November 2000.

Advisor to Ria Pulp Company, Indonesia on *Eucalyptus* and *Acacia* diseases, February, 2001

Advisor to COFUSA and FOSA Uruguay, and CAPSA Argentina on plantation diseases, March, 2001.

Advisor to the Arauco group, Chile on diseases of *Eucalyptus*, April, 2001.

Invited guest lecturer, University of Oregon, Oregon State University and University of Minnesota, May 2001.

Invited by the Government of Bhutan (with funding from CORET) to present lectures in forest pathology to foresters, July, 2001.

Invited team member on Australian Centre for International Agricultural Research (ACIAR) project on clove diseases, Suluwesi, September, 2001.

External assessor of the Dutch Elm Disease eradication project, Ministry of Agriculture and Forestry (MAF), New Zealand, February 2002.

Member, external review team for the Centraalbureau voor Schimmelcultures, Utrecht, Netherlands, April 2002.

Assessor for COFUSA, FOSA and COLONVADE Uruguay on diseases of *Eucalyptus*, May 2002.

Assessor for Bioforest Chile on diseases of *Pinus* spp. and *Eucalyptus* spp. in Chile, May and November 2002.

Advisor on diseases of *Eucalyptus* for Forest Solutions. Hawaii September 2002.

Invited guest, Biotech and Siam Paper Company, Thailand. April 2003.

Assessor for Bioforest Chile on Diseases of *Pinus* spp. and *Eucalyptus* spp. in Chile, May and November 2003.

Invited team member on Australian Centre for International Agricultural Research (ACIAR) project on clove diseases, Suluwesi, July 2003.

Advisor on *Eucalyptus* diseases for Eucalyptus Technologies Ltd., Thailand, September 2003.

Assessor for FOSA, Uruguay on diseases of *Eucalyptus*, November 2003.

Assessor, for Smurfit Carton de Colombia, Colombia, on diseases and pests in exotic forest plantations. January, 2004.

Advisor on diseases of *Acacia* and *Eucalyptus* species in plantations in southern and northern Sumatera, Indonesia. Riau Andalan Pulp and Paper and Toba Pulp Lestari, February, 2004.

Assessor on diseases of plantation trees, Fundacion Forestal Juan Manuel Durini. July, 2004.

Advisor on *Eucalyptus* diseases for Eucalyptus Technologies Ltd., Thailand, September 2004.

Assessor for Bioforest Chile on Diseases of *Pinus* spp. and *Eucalyptus* spp. in Chile, November 2004.

Invited by USDA Forest Service, USA to visit and inspect dying pine stands in Georgia. January 2005.

Invited advisor on *Eucalyptus globulus* leaf disease problems, Stora Enso Portugal. April 2005.

Assessor for FOSA Uruguay on diseases of *Eucalyptus*. February, 2005.

Advisor on diseases of *Acacia* and *Eucalyptus* species in plantations in southern and northern Sumatera, Indonesia. Riau Andalan Pulp and Paper and Toba Pulp Lestari, May 2005.

Invited by the government of Bhutan (with funding from CORET, Austria) to present lectures in forest pathology to foresters and to conduct pathology research in Bhutan, July, 2005.

Advisor to the Government of the Basque Country (Spain) on Pitch Canker disease. June, 2005.

Advisor on *Eucalyptus* diseases for Eucalyptus Technologies Ltd., Thailand, September 2005.

Assessor, for Smurfit Carton de Colombia, Colombia, on diseases and pests in exotic forest plantations. November 2005.

Assessor on diseases of plantation trees, Fundacion Forestal Juan Manuel Durini. February, 2006.

Advisor on diseases of *Acacia* and *Eucalyptus* species in plantations in southern and northern Sumatera, Indonesia. Riau Andalan Pulp and Paper and Toba Pulp Lestari, March, 2006.

Assessor for Bioforest Chile on Diseases of *Pinus* spp. and *Eucalyptus* spp. in Chile, October, 2006.

Assessor for Smurfit Carton de Colombia on diseases and pests in exotic forest plantations. January 2007.

Advisor on diseases of *Acacia* and *Eucalyptus* species in plantations in southern and northern Sumatera, Indonesia. Riau Andalan Pulp and Paper and Toba Pulp Lestari, March, 2007.

Assessor for Bioforest Chile on Diseases of *Pinus* spp. and *Eucalyptus* spp. in Chile, July, 2007.

Advisor to April Asia China on diseases of *Eucalyptus* in Fujian Province, September, 2007.

Assessor for Bioforest Chile on Diseases of *Pinus* spp. and *Eucalyptus* spp. in Chile. October 2007.

Advisor to the Sumalindo regarding diseases and pests of *Gmelina arborea* in north east Kalimantan. November, 2007.

Advisor to Forestal Oriental Uruguay on Eucalyptus diseases. January, 2008.

Advisor on diseases of *Acacia* and *Eucalyptus* species in plantations in southern and northern Sumatera, Indonesia. Riau Andalan Pulp and Paper and Toba Pulp Lestari, March, 2008

Advisor on diseases of *Acacia* in Kalimantan, Riau Andalan Pulp and Paper, May 2008.

Advisor on diseases of Eucalyptus, Lichinga, Mozambique, UPM Kymene, May 2009.

Advisor on diseases of *Acacia* and *Eucalyptus* species in plantations in southern and northern Sumatera, Indonesia. Riau Andalan Pulp and Paper and Toba Pulp Lestari, June, 2009.

Assessor for Smurfit Carton de Colombia on diseases and pests in exotic forest plantations. January 2010.

Advisor on diseases of *Acacia* and *Eucalyptus* species in plantations in southern and northern Sumatera, Indonesia. Riau Andalan Pulp and Paper and Toba Pulp Lestari, June, 2010.

Advisor on diseases of *Eucalyptus* and *Acacia*, Pnom Penh, Cambodia, October 2010.

Advisor to the Sumalindo regarding diseases and pests of *Gmelina arborea* in north east Kalimantan. November, 2010.

Advisor to Proteak regarding diseases of teak (*Tectona grandis*) in Mexico. February, 2011.

Advisor to Birla Lao Paper and Pulp in Laos regarding diseases of *Eucalyptus* in the Peoples Republic of Lao. July, 2011.

Assessor for Bioforest Chile on Diseases of *Pinus* spp. and *Eucalyptus* spp. in Argentina and Chile. October, 2011.

Advisor on diseases of *Acacia* and *Eucalyptus* species in plantations in southern and northern Sumatera, Indonesia. Riau Andalan Pulp and Paper and Toba Pulp Lestari, June, 2011.

Assessor for Smurfit Carton de Colombia on diseases and pests in exotic forest plantations. January 2012.

Advisor for Boden Forest Associates, diseases of forest trees in Sabah, Malaysia. April, 2012- onwards (annually).

Advisor on diseases of *Acacia* and *Eucalyptus* species in plantations in southern and northern Sumatera, Indonesia. Riau Andalan Pulp and Paper and Toba Pulp Lestari, June, 2012- onwards (annually).

Advisor on diseases of plantation trees in Ghana and Sierra Leone, Miro Forestry. February, 2017

Advisor on diseases of *Gmelina arborea* in Panama. Apical Forestry, Panama. January 2017.

Advisor for Food and Agricultural Organisation (FAO), on decline of *Araucaria araucana* in Chile. March 2017.

Assessor for Smurfit Carton de Colombia on diseases and pests in exotic forest plantations. January 2012, 2014, 2016, 2018.

Advisor to Sociedad Productores de Forestales (SPF), Uruguay, February 2023.

3.4 Academic, Professional and Board Appointments

Editorial Committee, Dept. Plant Pathology, University of Minnesota. 1982 and 1983.

South African Society of Plant Pathology, Member of Standards Committee 1985 -1989.

Western Cape Representative to Council of South African Society of Plant Pathology 1987 and 1988.

South African Experimental Biology Group
Secretary 1987; Vice President 1988.

Member, Forest Pathology Committee of the International Society for Plant Pathology 1988 - 1993.

Editorial Board of *Phytophylactica*. 1989 - 1992.

President, South African Society for Plant Pathology (SASPP), 1990 - 1993.

Member of five person Task Team of the Forestry Council on Forest Protection, 1990.

Member of *ad hoc* committees of the Foundation for Research Development on Biotechnology Programs with Taiwan and Special Programs Committee on Forestry and Agriculture.

Senate of the University of the Orange Free State, 1990 onwards.

Member of National Committee for International Union of Microbiological Sciences (Plant Pathology representative 1990 - 1993).

Member of the International Union of Forestry Research Organisations (IUFRO), National Committee 1992.

Member of the Dryland Coordinating Working Group, 1991 - 1995.

Member of the Foundation for Research Development (FRD) Collegium and Committee for Microbiology, 1991 - 1993.

Director of Tree Pathology Cooperative Programme of the U.O.F.S. Supported by Mondi Forests, SAPPI Ltd., SAFCOL Ltd and H.L.and H. Timber Products Ltd. 1990 -1994. Renewed 1995 indefinitely with new members, Central Timber Co-operative and Department of Water Affairs and Forestry, January 1997.

Member of the Forest Research Co-ordinating Committee, Forest Owners Association, 1992 to 2000.

Various committees and advisory panels, Foundation for Research Development, University Development Programme, 1992 - 1995.

Chairman of the Foundation for Research Development, Collegium Committee for Microbiology, 1993.

Vice President, International Society for Plant Pathology, 1993 - 1998.

Chair Forest Pathology Committee, International Society for Plant Pathology, 1993 - 1998. Deputy Chair, 1998 - 2003.

Member of the FRD/UNESCO task team to investigate the status of biotechnology in Southern Africa, 1995.

Member, International Union of Microbiology Societies, International Commission on the Taxonomy of fungi. 1994 - onwards.

Chair, International Union of Forestry Research Organizations, Working Party of Genetics of Forest Pathogens, 1995 - 2000.

Editorial Board, Mycological Research, January 1997, 1998.

Councillor, International Society for Plant Pathology, 1998 - 2005.

Director, Tree Protection Co-operative Programme (TPCP), University of Pretoria, 1998 – onwards.

Editorial Board, Plant Pathology (UK), 2001 onwards.

Director, Forestry and Agricultural Biotechnology Institute, University of Pretoria, April 1998 - April 2001. Reappointed 2002 - onwards.

Editorial Board, Australasian Plant Pathology, April 2000 onwards.

Elected to Extended Board of the International Union of Forest Research Organisations, as Deputy Co-ordinator of Division 7 and concurrently Co-ordinator of all pathology working parties in Division 7. 2001 - 2005.

Member of the International Committee on the Taxonomy of Fungi (ICTF), 2002-2011.

Member, Congress Scientific Committee (World Congress 2005), International Union of Forestry Research Organisations (IUFRO), 2002-2005.

Member, International Union of Forestry Research Organisations (IUFRO), Task Force on Biotechnology, 2002-2005.

Scientific Advisory Committee (WECO), Centraalbureau voor Schimmelcultures, Utrecht, Netherlands, 2003-2012.

Research Committee of Hans Merensky Holdings, Ltd. 2003 onwards.

Appointed by South African Parliament to the Board of the Council for Scientific and Industrial Research (CSIR), 2003-2005.

Editorial Board of Mediterranean Plant Pathology, 2005 -

Strategic Research Committee of the CSIR Board, 2005 - 2007.

Identified as Director, Department of Science and Technology, Centre of Excellence in Tree Health Biotechnology, June 2004 onwards.

Senate Research Advisory Committee, University of Pretoria, 2005 - 2010.

International Scientific Committee, Annals of Forest Science, 2005 -

Senate Library Committee, University of Pretoria, 2006 - 2008.

Editorial Board of Mycological Progress, 2006 -

Elected Co-ordinator of the International Union of Forestry Research Organisations (IUFRO) Division 7 and full board member 2005 - 2010.

Elected member of the Management Committee of International Union of Forestry Research Organisations (IUFRO), January 2006 - 2010.

Appointed by South African Parliament to the Board of the Council for Scientific and Industrial Research (CSIR) for second term, 2006 - 2008.

Strategic Research Committee of the CSIR Board, 2006 - 2008.

Appointed (2004) by South African Parliament to the Board of the Council for Scientific

and Industrial Research (CSIR) for third term, 2009-2011; reappointed for a fourth term 2012 - 2015.

Strategic Research Committee of the CSIR Board, 2009 - 2011; 2012 - 2015.

As Vice President, *ex officio* member of the Management Committee and Board of the International Union of Forestry Research Organisations (IUFRO), 2011 - 2014.

Member of the Scientific Advisory Board of Genome Canada Project 'Genomics Based Forest Diagnostics and Monitoring' 2011 - 2013.

Member of the Technology Advisory Board, RGEI Pty. Ltd. Including April Forestry and Asian Agri.

Elected President of the International Union of Forest Research Organisations (IUFRO) 2014 for the 2014 - 2019 Board Term. Immediate Past President and member of the Management Committee (Executive) of IUFRO, 2019-2024.

Appointed as Advisor to the University of Pretoria's Executive reporting to Vice-Principal for Research, Prof.Sunil Maharaj, 2019 onwards.

Appointed to the Board of Trustees of the Hans Merensky Foundation, 2019-onwards.

Appointed member of the Marcus Wallenberg (Sweden) Prize Committee, 2020 – 2022 and second term 2023-2026.

Appointed to the Scientific Advisory Board of Bioforest Chile, 2022-onwards

3.5 Referee for Journals and Organisations

3.5.1 Journals (regular service provided in many cases)

Phytophylactica (Until 1993)
South African Forestry Journal
Canadian Journal of Forest Research
Mycotaxon
South African Journal of Botany
Plant Disease
Sydowia
European Journal of Forest Pathology
American Phytopathology Society Press
Mycological Research/Fungal Biology
Mycologia
Plant Pathology
Phytopathology
Canadian Journal of Forest Research
Ecological Entomology
Applied and Environmental Microbiology
Molecular Ecology
Proceedings of the Royal Society (B)

3.5.2 Organisations

Referee for appointments, promotions and research proposals

University of New Hampshire (1990)

University of Natal (Regular)

University of Durban/Westville (Regular)

University of Stellenbosch (Regular)

Louisiana State University (1991, 1993)

National Science Foundation (USA) (Regular)

National Research Foundation (Regular)

University of Alabama (USA) (1992)

State University of New York (USA) (1992)

University of California, Riverside (USA) (1992)

University of California, Berkeley (USA) (1994)

University of Manchester (UK) (1997)

University of California, Davis (USA) (1997)

University of California, Riverside (USA) (1997)

Commonwealth Agricultural Bureau (UK) (2000)

Washington State University (USA) 2001

Oregon State University (USA) 2001

University of Brisbane (Australia) 2001

Australian Centre for International Agricultural Research (Australia) 2001

University of California, Davis (USA), 2002

Pennsylvania State University (USA), 2003

University of Joensuu, (Finland), 2004

Ohio State University (USA), 2004

Murdoch University (Australia), 2004

University of Sydney (Australia), 2004

University of California, Davis (USA), 2005

Royal Botanic Gardens, Sydney (Australia), 2005

University of California, Berkeley (USA), 2006

University of Helsinki (Finland), 2006

USDA Forest Service (USA), 2006

USDA Forest Service (USA), 2007

University of Montana (USA), 2007

Dartmouth College (USA), 2007

University of California Davis (USA), 2007

University of California Berkeley (USA), 2007

Auburn University, Alabama (USA), 2008

University of California, Davis (USA), 2009

University of California Berkeley (USA), 2010

Washington State University (USA), 2011

Ohio State University (USA), 2011

University of Florida (USA), 2011

4.0 SCIENTIFIC PRESENTATIONS AND PUBLICATIONS

4.1 Invited Lectures and Keynote Addresses

National Pine Wilt Disease Workshop, Columbia, Missouri, USA, November, 1980
"The pine wood nematode in Minnesota"

National Pine Wilt Disease Workshop, Rosemount Illinois, USA, April, 1982.
"The pine wood nematode in Minnesota, Iowa and Wisconsin"

U.S.D.A. Forest Service, Honolulu, Hawaii, July 1983.
"Forest pathology in South Africa"

Forest Research Institute, Rotorua, New Zealand, August, 1983.
"The threat of the pine wood nematode to forestry in the southern hemisphere"

Forestry Commission of New South Wales, Beecroft, Australia, August 1983.
"The pine wood nematode in the United States"

Fourth International Congress of Plant Pathology, Melbourne, Australia, August 1983.
"Verticicladiella root diseases of conifers"

Forestry Commission, Alice Holt Lodge, Farnham, Surrey, England, January 1984.
"The pine wood nematode in the United States"

Federal Institute for Wood Biology, Hamburg, West Germany, January 1984.
"The pine wood nematode in the United States"

International Union of Forestry Research Organisations, Symposium on site productivity of fast growing plantations, Pretoria, South Africa, April 1984.
"Diseases and their management in fast growing plantations"

American Phytopathological Society, Symposium on the pine wood nematode Reno, Nevada, USA, August 1985.
"Comparison of the mycophagous and the phytophagous phases of the pine wood nematode"

American Phytopathological Society, Symposium on *Verticicladiella* root diseases. Reno, Nevada, USA, August, 1985.
"Leptographium species as root pathogens of conifers: An international perspective"

University of Natal, Pietermaritzburg, South Africa, April 1986.
"Leptographium root diseases"

South African Society for Plant Pathology, Western Cape Branch, April 1987.
"Bark beetles, fungi and flying ecosystems"

Department of Microbiology, University of Cape Town, South Africa, June 1987.
"Insect-related diseases of trees and the importance of the saprophytic phase"

Invitation to present paper on pine wood nematode at congress on **"Plant pathogens in the pacific region"**. Seoul, Korea, August 1987. Invitation refused due to lack of funds

Department of Microbiology, University of Stellenbosch, South Africa, March 1988.
"Ceratocystis, Fungi and the Fynbos"

Fifth International Congress of Plant Pathology, Kyoto, Japan, August 1988.
"Insect oviposition and tree disease"

Fifth International Congress of Plant Pathology, Kyoto, Japan, August 1988.
"Cypress canker in South Africa"

Department of Plant Pathology, University of Minnesota, USA, July 1988.

"Forests, Fungi and the Fynbos"

Forintek Canada Corporation, Ottawa, Ontario, Canada, August 1988.

"Pine wood nematode: Ecology and threat to Canadian Forestry"

Invitation to participate in a symposium on entomophilic nematodes at the International Entomological Congress at Vancouver, Canada 1988. Invitation refused due to inability to attend

South African Society for Plant Pathology, Annual Meeting, Cape Town, South Africa, January 1989. Keynote Address.

"Future Trends in Forest Pathology"

South African Forestry Institute, Sabie, South Africa, February 1989.

"Current Status and Future Trends of Forest Pathology in South Africa"

Department of Plant Pathology, University of Brasilia, Brasilia, Brazil, February 1990.

"Tree pathology in South Africa"

University of the Orange Free State, Bloemfontein, South Africa, February, 1990. Keynote address on occasion of opening on new Microbiology and Biochemistry facilities.

"Microbiological applications in the Forestry Industry"

Institute for Commercial Forest Research, Pietermaritzburg, South Africa, June 1990

"Diseases of *Eucalyptus* in Brazil and Chile - Lessons for the South African Forestry Industry"

Furadouro Research Institute, Obidos, Portugal, August 1990.

"The importance of pathology in an intensively managed forest plantation program"

International Symposium of the Taxonomy and Biology of the Ophiostomatales, Bad Windsheim, West Germany, August, 1990.

"*Leptographium* and *Phialocephala* anamorphs of *Ophiostoma*"

International Symposium of the Taxonomy and Biology of the Ophiostomatales, Bad Windsheim, West Germany, August, 1990.

"The genus *Ceratocystiopsis* and its place in the Ophiostomatales"

International Symposium of the Taxonomy and Biology of the Ophiostomatales, Bad Windsheim, West Germany, August, 1990.

"Conidium development in anamorphs of *Ceratocystis sensu lato*"

Fourth International Mycological Congress, Regensburg, West Germany, September 1990. With Dr. J.F. Webber and Dr. K.A. Seifert

"The Ophiostomatales: Mycological considerations"

National Taiwan University, Taipei, Taiwan, May 1991.

"The expanding realm of the Ophiostomatales"

Taiwan Forest Research Institute, Taipei, Taiwan, May 1991.

"Pathogenicity of the pine wood nematode and its probable impact to Forestry in Taiwan"

Annual meeting of the Brazilian Phytopathological Society, Rio De Janeiro, August 1991.

"Diseases of *Eucalyptus* and their management in South Africa"

Twelfth International Plant Protection Congress, Rio De Janeiro, Brazil, August 1991.

"Integrated management of forest diseases in Southern Africa"

Department of Microbiology, University of Durban Westville, May 1992.

"The expanding realm of the Ophiostomatales"

Fourteenth International Congress of Entomology, Beijing, China, July 1993.

"Fungi associated with introduced pine-infesting bark beetles in South Africa and their possible origins"

Department of Plant Pathology, University of Tsukuba, Tsukuba, Ibaraki, Japan, July 1992.

"The expanding realm of the Ophiostomatales"

Department of Plant Pathology, Kasetsart University, Bangkok, Thailand, July 1992.

"Diseases of *Eucalyptus*"

Mondi Forests Zululand Technology Symposium (ZULTECH), Bonamanzi, Kwa Zulu, October 1992. **"Tree diseases: the unfolding saga"**

University of the Orange Free State, Inaugural lecture to full Professorship, October 1992.

"Fiends of the forest: A perspective on the impact of tree pathogens on natural forests and plantations"

Smurfit Carton De Colombia, staff meeting, Cali, Colombia, March 1993.

"Diseases of *Eucalyptus* and their implications for the Colombian forestry industry"

Lecture to various forestry companies i.e. Aracruz Florestal, Aracruz, Cia Suzano, Sai Paulo and Bahia Sul Cellulose, Teixeira de Freitas, Brazil, April 1993.

"Diseases of *Eucalyptus* and their management in South Africa"

Department of Plant Pathology, University of Brasilia, Brasilia, Brazil, April 1993.

"A synopsis of the Ophiostomatoid fungi"

Department of Plant Pathology, University of Viscosa, Viscosa, Brazil, April 1993.

"A synopsis of the Ophiostomatoid fungi"

Institute for Forestry, Swiss Federal Institute for Technology, Zurich, Switzerland, May 1993.

"The Expanding Realm of the Ophiostomatales"

Foundation for Research Development, Biennial Prestige Lecture Day, June 1993.

"Dying trees: Consequence of Twentieth Century Excess"

South African Timber Growers Association, Pietermaritzburg, June 1993.

"Do diseases pose a threat to the South African Forestry Industry?"

Fifth International Congress of Plant Pathology, Montreal, Canada, August 1993.

"Biogeography of fungal pathogens of trees"

International Botanical Congress, Yokohama, Japan, September 1993.

"Pleomorphism in anamorphs of *Ophiostoma*: Evidence for a continuum and convergent evolution"

South African Society of Plant Pathology, Transvaal Branch, October 1993.

"Biotechnological opportunities for the characterisation of fungal pathogens"

Department of Plant Pathology, Iowa State University, February 1994.

"Management of *Eucalyptus* diseases in Southern Africa"

Department of Plant Pathology, University of Minnesota, May, 1994.

"*Eucalyptus* diseases and their management in South Africa"

Department of Plant Pathology, Cornell University, New York, May 1994.

"*Eucalyptus* diseases and their management in South Africa"

Department of Biology, Duke University, North Carolina, May 1994.

"The unique nature of Ophiostomatoid fungi associated with Proteaceae in Southern Africa"

Fifth International Congress of Plant Pathology, Vancouver, British Columbia, Canada, August 1994. (With K.A. Seifert and B.D. Wingfield)

"A critique of molecular characters used in the taxonomy of Deuteromycetes"

Smurfit Carton de Colombia, Cali, Colombia, May 1995.

"Eucalyptus diseases in Colombia"

Smurfit Carton de Venezuela, Acarigua, May 1995.

"Eucalyptus diseases. An international perspective"

BOKU, Vienna, Austria. July 1995.

"Ceratocystis and Ophiostoma: Challenges for Entomologists, Plant Pathologists and Foresters"

Norwegian Forest Research Institute (NISK), As, Norway.

International Union of Forestry Research Organisations (IUFRO) Working Party "Mechanisms and Genetics of Tree Resistance Against Insects". August 1995.

"Do conifer bark beetles require fungi to kill trees?"

International Union of Forestry Research Organisations (IUFRO) World Congress, Tampere, Finland. August 1995.

"Management of Eucalyptus diseases in subtropical areas of South Africa"

Department of Microbiology and Biochemistry, University of the Orange Free State, "Wacky Talks". October 1995.

"Beyond our wildest imagination: the baffling behaviour of bugs"

South African Institute of Forestry, Weza Forest, Natal. November 1995.

"Getting to grips with blue stain"

XX International Congress of Entomology, Symposium on Ecology and Management of Introduced Arthropod Pests, Firenze, Italy, August 1996.

"Pests and diseases of plantation Eucalyptus: A global perspective"

CAMCORE Annual Meeting, Indonesia, October 1996.

"Diseases and the threat they pose to plantation pines"

New Zealand Forest Research Institute, November 1996.

"Pitch canker, a pine disease of international concern"

University of Tasmania, November, 1996.

"Do bark beetles need fungi to kill trees?"

Smurfit Carton de Colombia, Cali, Colombia, February 1997.

"Diseases of Eucalyptus in Colombia"

Mexican Tree Planters Association, Mexico City, February 1997.

"Diseases of Eucalyptus and their management - an International Perspective"

INIFAP, Campetche, Mexico, February 1997.

"Forest tree diseases: an international perspective"

P.T. Inti Indorayon Utama, Medan, Sumatera, Indonesia. April 1997.

"Eucalyptus diseases in Sumatera"

South African Forestry Institute, Cedara, Natal, May 1997.

"Tree diseases in the next millennium"

Australasian Plant Pathology Society, August 1997.

"Cryphonectria canker of Eucalyptus"

IUFRO Symposium on Tree/ Phytophage Interactions, Arcachon France, July 1997.

"Cryphonectria canker of Eucalyptus"

Golden Jubilee Meeting of the Indian Phytopathological Society, October 1998.
“The threat of tree pathogens to native woody ecosystems”

Smurfit Carton de Colombia, Cali, May 1998.
“Diseases of *Pinus* and *Eucalyptus* in Colombia”

Foundation for Research Development (FRD), 1998
“Forest Biotechnology in South Africa”

Fifth International Plant Pathology Congress, Edinburgh August 1998.
“Cryphonectria canker of *Eucalyptus*”

Fifth International Congress of Plant Pathology (ICPP), Edinburgh, August 1998 (with Dr. K. Old).
“The threat of pathogens to trees in native ecosystems”

International Symposium on Pine Wilt, Tokyo, October 1998.
“Diseases and epidemics in native woody ecosystems”

Asilomar Pitch Canker IMPACT Symposium, Monterey California, December 1998.
“The Pitch Canker Pathogen in South Africa”

Woodfor Africa Symposium, Pietermaritzburg, South Africa, June 1998
“Management of forest pathogens in exotic forest plantations”

International Botanical Congress, St. Louis, Missouri, August 1999.
“Invasions of forest fungi”

Symposium Fundacion Forestal Manuel Durini, Quito, Ecuador, September 1999.
“The role of pathogens on Pachaco die-back”

Annual Meeting of CAMCORE, New Zealand, November 1999.
“The role of CAMCORE in reducing the impact of plantation tree diseases”

Van Der Plank Memorial Lecture, Bio Y2K Congress, Grahamstown, South Africa, January 2000.
“International spread of tree pathogens”

IUFRO WORLD CONGRESS, Sub- plenary speaker, Kuala Lumpur, Malaysia August 2000.
“Forest fungi and society”

IUFRO WORLD CONGRESS, Kuala Lumpur, Malaysia, August 2000.
“Associations between fungi and forest insects in South Africa”

IUFRO World Congress, Kuala Lumpur, Malaysia, August 2000.
“Diseases of black wattle, *Acacia mearnsii* in South Africa” (Co-author with Dr. J. Roux)

Asian Mycological Society Congress, Hong Kong, September 2000
“Sequence or structure? Examples from *Cryphonectria* and *Botryosphaeria*”

British Mycological Society Millennium Symposium on Tropical Fungi Manchester, April 2000. (Paper presented by B.D. Wingfield)
“An African perspective on old world fungi”

International Entomological Congress, Iguacu Brazil, August 2000
(Paper presented by P. Govender)
“Associations between insects and pathogens on *Eucalyptus* in South Africa”

Australasian Plant Pathology Society, Regional Symposium, Bungendore, November 2000

“Congruence between sequence data and morphology in *Eucalyptus* canker pathogens”

Forestry Department, Bhutan, July 2001 together with Dr.T. Kirisits (Austria).

"Forest Pathology"

American Phytopathological Society, Online Virtual Congress, April 2001
(With Dr. R. Day, Kenya)

"Threats of exotic pests and pathogens to Forests in Africa"

University of Oregon, Oregon State University and University of Minnesota, May 2001
"A pathologist's view of forests and forestry in South Africa"

New Zealand Forestry Association, Rotorua, New Zealand. April 2002.

"Disease prospects for exotic plantation forestry in the tropics and Southern Hemisphere"

Symposium on alien invasive organisms, University of California, Davis. June 2002

"The threat of pathogens to plantation forestry"

Sixth International Mycological Congress, Oslo August 2002.

(With M. Marin, T. Kirisits and B. Wingfield)

"Molecular, taxonomic and ecological studies separate the bark-beetle associated blue-stain fungi *Ceratocystis polonica* and *C. laricicola*"

Wood for Africa Symposium, Hilton, South Africa, July 2002

"Future prospects for exotic plantation forestry. Lessons from pitch canker"

International Union for Forestry Research Organisations 110 Anniversary Symposium, Vienna, October 2002.

"Pathogens, Forests and Forestry"

Asian Mycological Society congress, Kunming, China. November 2002.

"Role of conifer bark beetle-associated fungi in tree death"

Department of Ophthalmology, "Cutting Edge Seminars", RAU, South Africa, August 2002.

"Van Riebeeck's curse and the forestry folly of our forefathers"

Daniel McAlpine Memorial Lecture, Australasian Plant Pathology Society and International Congress of Plant Pathology, Christchurch, New Zealand. February 2003.

"The role of pathogens in the future of exotic plantation forestry in the tropics and southern hemisphere"

New Zealand Forest Industry Workshop on Pine Pitch Canker, Rotorua, New Zealand. February 2003.

"Current status and future prospects for pitch canker. A global perspective"

Tree Society of South Africa, Johannesburg, March 2004.

"Fungal threats to forests"

Amazonian Network, Santa Cruz, Bolivia. March 2004.

"Forest Tree Diseases in the Tropics. Poorly understood and highly threatening"

Centraalbureau voor Schimmelcultures, Utrecht, Netherlands. May 2004.

"Cryptic species and new tree pathogens in *Ceratocystis*"

International Congress of Entomology, Brisbane, Australia. August 2004.

"Fungal associates of conifer infesting bark beetles"

International Congress of Entomology, Brisbane, Australia. August 2004.

"The impact of diseases in exotic plantation forestry"

Ethel M. Doidge Memorial Lecture, Southern African Society for Plant Pathology, Hartenbos, South Africa, January 2005.

"Forest pathology and forest pathogens in South Africa. The past and the future"

Southern Forest Disease Workshop Invited Keynote Speaker, Louisiana State University, Baton Rouge, Louisiana, USA. January 2005.

"*Leptographium* species: Tree pathogens, bark beetle associates and agents of blue stain"

FOSA, Uruguay. February 2005.

"Diseases of *Eucalyptus* in Uruguay"

Obidos, Portugal. Portuguese Forestry Industry, April 2005.

"Diseases of *Eucalyptus*. An international perspective"

Institute for Commercial Forest Research, Pietermaritzburg, South Africa, June 2005.

"The increasing threat of tree diseases. Lessons from *Cryphonectria* canker"

IUFRO World Congress. Brisbane, Australia. August 2005. Invited Sub-Plenary Address with Dr. Robert Haack, USDA Forest Service, Michigan, USA.

"Invasive pests and pathogens threaten world forests"

Western Australia Forest Industry Working Group, July 2006.

"Eucalypt diseases. An international perspective"

Murdoch University, Perth Australia, July 2006.

"The role of fungi in bark beetle invasions"

Mediterranean Phytopathological Society Congress, Rhodes, Greece, May 2006. With B. Slippers, M. Gryzenhout and B.D. Wingfield.

"Anthropogenic fungal tree pathogen host jumps threaten world forests"

Workshop "*Ceratocystis* and *Ophiostoma*: Expanding Frontiers", North Stradbroke Island, Brisbane, Australia. August 2006.

"*Ceratocystis* and *Ophiostoma* species: International Movement and Trade Issues"

Eighth International Mycological Congress, Cairns Australia. August 2006. Invited Plenary Lecture.

"Forest fungi threaten world forests"

Annual General Meeting of Forestry South Africa. April 2007. Invited Keynote Lecture.

"Pests and diseases threaten South African forest plantations"

IUFRO WP 2.08.03 Meeting "Eucalypts and diversity" Durban, South Africa October 2007, invited keynote lecture.

"*Eucalyptus* pests and diseases: Growing threats to plantation productivity"

International Congress of Entomology, Durban, South Africa July 2008, invited symposium lecture.

"Novel associations between insects, Ophiostomatoid fungi and tree hosts following anthropogenic spread"

Charles Elton Memorial Symposium, Centre for Invasion Biology, University of Stellenbosch, Stellenbosch, South Africa, November 2008. Invited symposium lecture.

"50 years of tree pathogens threatening world forests"

IUFRO/ OECD Forest Biosecurity Meeting, Rotorua, New Zealand, March 2009. Invited lecture.

"Novel associations between insects, pathogens and trees threaten world forests"

Department of Plant Pathology, University of California, Davis CA, USA.

"Novel associations between insects, pathogens and trees threaten world forests"

Australasian Plant Pathology Society Meeting, Newcastle, NSW, Australia, September 2009, Invited plenary lecture.

“Global tree health: What next?”

Department of Plant Pathology, North Carolina State University, USA, November 2009.
“Novel associations between insects, pathogens and trees threaten world forests”

FAO World Forestry Congress, Buenos Aires, Argentina, October 2009, IUFRO Symposium.

“Current status and future prospects of IUFRO Division 7 (Tree Health)”

Australasian Plant Pathological Society Tree Health satellite meeting, September 2009, invited lecture.

“Tree pathology lessons from pitch canker”

Department of Plant Pathology, University of California, Davis CA, USA, November 2009, invited lecture.

“Novel associations between insects, pathogens and trees threaten world forests”

IUFRO WORLD CONGRESS, Seoul, Korea, August 2010, invited symposium presentation representing Division 7 (Tree Health).

“Air pollution, climate change, diseases and insect pests: future prospects”

Symposium on *Acacia* species growing as non-natives, Stillebosch, South Africa, October 2010, invited lecture.

“Insect pests and pathogens of Australian *Acacia* species grown as non-natives – an experiment in biogeography with far reaching consequences”

South African Association of Botanists Annual Congress, Rhodes, University, Grahamstown, January 2011, invited plenary lecture.

“Global tree health: What next?”

University of Helsinki, Finland, March 2011, invited faculty lecture.

“Global tree health: What next?”

Centraalbureau voor Schimmelcultures “One fungus = one name” Symposium. Amsterdam, Netherlands, April 2011. invited introductory keynote lecture.

“One fungus WHICH name: Examples from *Letographium* and *Ceratocystis*”

IUFRO WP 7.2.02 symposium, Palencia, Spain, May 2011, invited plenary lecture.

“Global Change and Tree Diseases: New threats, new strategies”

American Phytopathological Society Annual Meeting, Forest Pathology Symposium, Honolulu, Hawaii, USA, August 2011, invited symposium lecture.

“Diseases of tropical Eucalypts: Threats to a critically valuable forestry resource”

IUFRO DIVISION 7.2 (pathology) and DIVISION 7.3 (entomology) symposium, Uruguay, November 2011, invited introductory lecture.

“IUFRO and opportunities to promote global tree health”

IUFRO WP MEETING, EUCALYPTUS IMPROVEMENT, BAHIA, Brazil, November, 2011, invited keynote lecture.

“Established and new technologies to minimize increasing pest and pathogen damage to *Eucalyptus* plantations”

South African Institute of Forestry, Biennial Symposium, Hilton College, Hilton, South Africa. July 2012. Invited plenary lecture.

“Global tree health: A South African perspective”

Faculty of Forestry, University of British Columbia, Vancouver Canada, November 2012, public lecture.

“Global tree health: Can we rise above the gathering storm?”

East Africa Regional Tree Improvement Conference, Nairobi, Kenya, February 2013, Invited keynote lecture.

“Opportunities for collaborative research in Africa: A tree-health example”

Drivers, Mechanisms & Impacts of Insect Invasions Workshop, Stellenbosch, South Africa, 24-24 November 2014. Invited speaker. **“Tree pathogens as drivers of insect invaders.”**

SASPP 2015. The 49th Congress of the Southern African Society for Plant Pathology, Bloemfontein, South Africa, January 2015. Invited keynote speaker. **“Global tree health: New developments and emerging challenges.”**

IUFRO Eucalypt Conference 2015. Zhanjiang City, Guangdong, China, 21-24 October. Invited speaker. **“Pests and diseases threaten worldwide Eucalyptus forestry”.**

IUFRO Task Force on Forest Invasions July, 2016. Shepherdstown, West Virginia. USA. **“Novel insect-pathogen-host associations in the Ophiostomatoid fungi: Current status, future prospects”.**

IUFRO Task Force on Forest Invasions July, 2016. Shepherdstown, West Virginia. USA. Invited Plenary Speaker. **Biological invasions of Forest Ecosystems: The ‘big’ picture”.**

Centraalbureau voor Schimmelcultures (CBS), Symposium, April 2016. Utrecht, Netherlands. **“Fungal tree diseases: Can we rise above the gathering storm?”**

Spanish Phytopathological Society, September 2016. Palencia, Spain. **“Global tree health: New developments and emerging challenges.”**

Seventh Forest Science Symposium, July 2017, Pietermaritzburg, South Africa. **“Plantation tree health: Increasingly threatened by pests and pathogens”**

Symposium on *Ips Typographus*, March 2017. Bavaria Spain. Public lecture. **“Can we win the battle against invasive forest pests?”**

University of Minnesota, Invited lecture on the forward ceremony, St Paul, Minnesota. May 2017.

“Global forest health: Can we win the battle against forest pests”

International Research Group on Wood Protection Congress, April 2018. Johannesburg, South Africa.

“Pests and pathogens threaten the sustainability of plantation forestry: A call for a global strategy”

International Mycological Congress, August 2018. Puerto Rico, USA **“Fungal species limits: A global tree health perspective”.**

International Congress of Plant Pathology, August 2018. Boston, USA. **“Planted forest health: The need for a global strategy”**

IUFRO Working Party on Eucalyptus. September 2018. Montpellier, France. **“Eucalyptus pests: Expanding frontiers”**

University of Florida, Gainesville, Florida USA, IFAS/SFRC John Gray Memorial Lecture, February 2019.

“Global tree health: Can we win the battle against invasive pests and diseases?”

Department of Agriculture, Forestry and Fisheries, South Africa. UN International Day of Forests Symposium, July 2019.

“Forest health and the importance of IUFRO”

International Forestry Students Association (IFSA) Symposium, Tallin, Estonia, July 2019. Repeated for IFSA South African Regional Meeting, George, June 2019.

“Future of plantation forestry: Musings on strong inference and global research co-operation”

FAO Webinar: Forest invasive species: The next global pandemic. July 2020.

“Tree health in the International Year of Plant Health: What we can learn from the SARS CoV-2 Pandemic”

World Fungus Day, October 2021

“The biology and beauty of unusual arthropod-associated fungi inhabiting ancient flowers at the tip of Africa”

National Science and Technology Forum (NSTF) Discussion Forum for the International Year of Plant Health, June 2021.

“A global perspective on tree health: Celebrating the United Nations 2020 International Year of Plant Health”

International Union of Forestry Research Organisations (IUFRO) Division 7 Working Party on Acacia. October 2021.

“Ceratocystis wilt of *Acacia mangium* in Sabah: Understanding the disease and efforts to reduce its impact”

National Science Foundation (NSF) Fungal Bioinvasions Symposium, Kruger National Park, South Africa, October 2022.

Global tree health: The battle against invasive pests and diseases.

IUFRO 2022 -Acacia meeting

IUFRO Lisbon

4.2 Publications in Refereed Journals

1. Schutz, C.J. and M.J. Wingfield. 1979. A health problem in mature stands of *Pinus taeda* in the Eastern Transvaal. **South African Forestry Journal** 109: 47-49.
2. Wingfield, M.J. and P.S. Knox-Davies. 1980. Association of *Diplodia pinea* with a root disease of pines in South Africa. **Plant Disease** 64: 221-223.
3. Wingfield, M.J. and P.S. Knox-Davies. 1980. Observations on diseases in pine and *eucalyptus* plantations in South Africa. **Phytophylactica** 12: 57-63.
4. Wingfield, M.J. and P.S. Knox-Davies. 1980. Root disease, associated with *Verticicladiella alacris*, of pines in South Africa. **Plant Disease** 64: 569-571.
5. Wingfield, M.J. and W.F.O. Marasas. 1980. *Ceratocystis ips* associated with *Orthotomicus erosus* (Coleoptera: Scolytidae) on *Pinus* spp. in the Cape Province of South Africa. **Phytophylactica** 12: 65-69.
6. Wingfield, M.J. and W.F.O. Marasas. 1980. *Verticicladiella alacris* sp. nov., associated with a root disease of pines in South Africa. **Transactions of the British Mycological Society** 75: 21-28.
7. Wingfield, M.J. and W.F.O. Marasas. 1981. *Verticicladiella alacris*, a synonym of *V. serpens*. **Transactions of the British Mycological Society** 76: 508-510.
8. Wingfield, M.J. and F.H.J. Rijkenberg. 1981. A preliminary ultrastructural study of the uredial stage of *Puccinia arachidis*. **Phytophylactica** 13: 53-55.
9. Livingston, W.H. and M.J. Wingfield. 1982. First report of *Verticicladiella procera* on pines in Minnesota. **Plant Disease** 66: 260-261.
10. Wingfield, M.J., R.A. Blanchette, T.H. Nicholls and K. Robbins. 1982. Association of pine wood nematode with stressed trees in Minnesota, Iowa and Wisconsin. **Plant Disease** 66: 934-937.
11. Wingfield, M.J., R.A. Blanchette, T.H. Nicholls and K. Robbins. 1982. The pine wood nematode: A comparison of the situation in the United States and Japan. **Canadian Journal of Forest Research** 12: 71-75.
12. Bedker, P.J. and M.J. Wingfield. 1983. Taxonomy of three canker-causing fungi of honey locust in the United States. **Transactions of the British Mycological Society** 81: 173-189.
13. Wingfield, M.J. 1983. Association of *Verticicladiella procera* and *Leptographium terebrantis* with insects in the Lake States. **Canadian Journal of Forest Research** 13: 1238-1245.
14. Wingfield, M.J. 1983. Transmission of pine wood nematode to cut timber and girdled trees. **Plant Disease** 67: 35-37.
15. Wingfield, M.J. and R.A. Blanchette. 1983. The pine wood nematode, *Bursaphelenchus xylophilus* in Minnesota and Wisconsin: Insect associates and transmission studies. **Canadian Journal of Forest Research** 13: 1068-1076.
16. Wingfield, M.J., R.A. Blanchette and E. Kondo. 1983. Comparison of the pine wood nematode, *Bursaphelenchus xylophilus* from pine and balsam fir. **European Journal of Forest Pathology** 13: 360-372.

17. Wingfield, M.J. and W.F.O. Marasas. 1983. Some *Verticicladiella* species including *V. truncata* sp. nov., associated with root diseases of pine in New Zealand and South Africa. **Transactions of the British Mycological Society** 80: 231-236.
18. Wingfield, M.J., R.A. Blanchette and T.H. Nicholls. 1984. Is the pine wood nematode an important pathogen in the United States? **Journal of Forestry** 82: 232-235.
19. Burnes, T.A., M.J. Wingfield, F.A. Baker, K. Knowles and Y. Beaubien. 1985. The pine wood nematode in Jack Pine infected with dwarf mistletoe. **Forest Science** 31: 866-870.
20. Swart, W.J., P.S. Knox-Davies and M.J. Wingfield. 1985. *Sphaeropsis sapinea* with special reference to its occurrence on *Pinus* spp. in South Africa. **South African Forestry Journal** 13: 1-8.
21. Wingfield, M.J. 1985. Reclassification of *Verticicladiella* based on conidial development. **Transactions of the British Mycological Society** 85: 81-93.
22. Wingfield, M.J., P.J. Bedker and R.A. Blanchette. 1986. Pathogenicity of *Bursaphelenchus xylophilus* on Pines in Minnesota and Wisconsin. **Journal of Nematology** 18: 44-49.
23. Ivory, M.H. and M.J. Wingfield. 1986. First report of *Mycosphaerella gibsonii* in South Africa. **Phytophylactica** 18: 51-53.
24. Wingfield, M.J. 1986. Pathogenicity of *Leptographium procerum* and *L. terebrantis* on *Pinus strobus* seedlings and established trees. **European Journal of Forest Pathology** 16: 299-308.
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4.5 Published Abstracts of Presentations

4.5.1 International Meetings

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311. Christie, J.B., T.A.S. Aveling, E. Oh, K.G. Pegg and N. van den Berg. 2011. Factors influencing Phytophthora root rot resistance in avocado. **7th World Avocado Congress, Cairns, Australia, 5-9 September.**
312. Coutinho, T.A., S.N. Venter, J. Roux and M.J. Wingfield. 2011. Bacterial diseases of Eucalypts. **Joint meeting of the Australasian and Asian Plant Pathology Societies, Darwin, Australia, 26-29 April.**
313. De Maayer P, S.N. Venter and T.A. Coutinho. 2011. Comparative genomics reveals key targets for environmental colonisation and cross-kingdom pathogenesis in *Pantoea ananatis*. **Joint meeting of the Australasian and Asian Plant Pathology Societies, Darwin, Australia, 26-29 April.**

314. Dittrich-Shroder, G., M.J. Wingfield, B.P. Hurley and B. Slippers. 2011. Are there really no males in invasive Eucalyptus gall wasp populations? **XXVI Congress of the International Society for Advancement of Cytometry, Baltimore Convention Centre, Baltimore, Maryland, USA, 21-25 May.**
315. Fitza, K., A.A. Myburg, E. Steenkamp, K. Payn and S. Naidoo. 2011. Induced resistance and associated defence gene responses in *Pinus patula*. **IUFRO Tree Biotechnology Conference: From genomes to integration and delivery, Arraial d' Ajuda, Bahia, Brazil, 26 June – 2 July.**
316. Fourie, G., B.D. Wingfield, M. Bogale, M.J. Wingfield and E.T. Steenkamp. 2011. Mitochondrial genomes of the plant pathogenic fungi *Fusarium circinatum*, *F. verticillioies* and *F. fujikoroj*. **EMBO Comparative Genomics Conference, Sant Feliu de Guixols, Spain, 15-20 October.**
317. Human, Z.R., B. Slippers, Z.W. de Beer, M.J. Wingfield and S.N. Venter. 2011. Actinobacteria associated with the bark beetle *Otrhotomicus erosus* (Coleoptera: Scolytinae) in South Africa. Poster presented at the 2011 **IUFRO Forest Protection Joint Meeting, Colonia Del Sacramento, Uruguay, 8-11 November.**
318. Jami, F., B. Slippers, M.J. Wingfield and M. Gryzenhout. 2011. Botryosphaeriaceae on *Acacia karoo* in South Africa. **Poster presented at the IUFRO Forest Protection Joint Meeting, Colonia Del Sacramento, Uruguay, 8-11 November.**
319. Maússe-Sitoe, S.N.D., B.D. Wingfield, M.J. Wingfield, G. Dittrich-Schröder, A. Chauque and J. Roux. 2011. **Joint meeting of the Australasian and Asian Plant Pathology Societies, Darwin, Australia, 26-29 April.**
320. Mlonyeni, X.O., C. Zhang, A. Postma, C. Hefer, F. Joubert, B.D. Wingfield, M.J. Wingfield and B. Slippers. 2011. Unlocking secrets in the genome of the fungus-feeding and woodwasp parasitic nematode, *Deladenus siricidicola*. **EMBO Comparative Genomics Conference, San Feliu de Guixols, Spain, 15-20 October.**
321. Perez C.A., M.J. Wingfield, N.A. Altier and R.A. Blanchette. 2011. Multiple gene genealogy analysis reveals Mycosphaerellaceae species known to be specific to Eucalyptus associated to native Myrtaceae in Uruguay. **American Phytopathological Society (APS)-International Plant Protection Congress (IPPC) Joint Meeting, Honolulu, Hawaii, 6-10 August.**
322. Roux, J., M. Mbenoun, M. Tarigan, G. Kamgan Nkuekam and M.J. Wingfield. 2011. Host shifts and new encounter diseases caused by *Ceratocystis* species: A threat to forests and forestry globally. **IUFRO Forest Protection Joint Meeting. "Pathogens, insects and their association affecting forestry worldwide", Colonia de Sacramento, Uruguay, 8-11 November.**
323. Santana Q.C., M.P.A. Coetzee, E.T. Steenkamp, M.J. Wingfield and B.D. Wingfield. 2011. Microsatellite composition across five *Fusarium* species. **26th Fungal Genetics Conference at Asilomar, March 15-20.**
324. Vermeulen, M., S. Chen, M. Gryzenhout, X. Zhou, M.J. Wingfield and J. Roux. 2011. Biogeography in the tree pathogen genus *Celoportha* (Cryphonectriaceae). **Joint meeting of the Australasian and Asian Plant Pathology Societies, Darwin, Australia, 26-29 April.**
325. Wilken P.M., E.T. Steenkamp, Z.W. De Beer, M.J. Wingfield, I. Barnes and B.D. Wingfield. 2011. The mating type locus of *Ceratocystis fimbriata*. **EMBO Comparative Genomics Conference, Sant Feliu de Guixols, Spain, 15-20 October 2011.**
326. Wingfield B.D. 2011. Progress on *Fusarium circinatum* genome. Invited presentation: **Fusarium Genome Workshop, 26th Fungal Genetics Conference at Asilomar, March 15-20.**

327. Wingfield M.J., Z.W. De Beer and B.D. Wingfield. 2011. One fungus which name: Examples from *Ceratocystis* and *Leptographium*. **CBS symposium One Fungus One Name (1F=1N), Amsterdam, The Netherlands, 19-20 April.**
328. Wingfield M.J., Roux J., Slippers B. and B.D. Wingfield. 2011. Diseases of tropical *Eucalyptus* spp.: Growing threats to a critically valuable global forestry resource. **American Phytopathological Society (APS)-International Plant Protection Congress (IPPC) Joint Meeting, Honolulu, Hawaii, 6-10 August.**
329. Wooding, A.L., J.M. Greeff, J. Garnas, B.P. Hurley, G. Dittrich-Schroder, M.J. Wingfield and B. Slippers. 2011. Possible reasons for the predominantly male-biased populations of *Sirex noctilio* (Hymenoptera: Symphyta) observed in Kwazulu-Natal, South Africa. **IUFRO Forest Protection Joint Meeting, Colonia del Sacramento, Uruguay, 8-11 November.**
330. Zhou X.D., Z.W. De Beer and M.J. Wingfield. 2011. Ophiostomatoid fungi associated with bark beetles infesting conifers in China. **American Phytopathological Society (APS)-International Plant Protection Congress (IPPC) Joint Meeting, Honolulu, Hawaii, 6-10 August.**
331. de Beer, Z.W., K.A. Seifert and M.J. Wingfield. 2012. Comparative genomic and biochemical analyses of the large pPANA1 plasmid of *Pantoea ananatis*. **American Phytopathology Society Congress, Providence, Rhode Island, 4-8 August.**
332. Duong, T.A., Z.W. de Beer, B.D. Wingfield and M.J. Wingfield. 2012. Characterization of MAT genes reveals unexpected patterns of sexual compatibility in *Leptographium* and *Grosmannia*. **Mycological Society of America 2012 Meeting, Yale University, New Haven, Connecticut, 15-18 July.**
333. Duong, T.A., Z.W. de Beer, B.D. Wingfield and M.J. Wingfield. 2012. Cloning, characterization and population analysis of the mating-type genes from *Leptographium procerum* and *L. Profanum*. **Mycological Society of America 2012 Meeting, Yale University, New Haven, Connecticut, 15-18 July.**
334. Garnas, J., B. Slippers, B. Hurley and M.J. Wingfield. 2012. Predicting forest pest abundance and distribution in a changing climate: an African perspective. **International Union of Forest Research Organization (IUFRO)-FORNESSA Joint Conference, Nairobi, Kenya.**
335. Hurley, B.P., K.E. Mutitu, J. Garnas, B. Slippers and M.J. Wingfield. 2012. Biological control for the protection of Africa's plantation: Successes and Challenges. A paper presented at the **IUFRO-FORNESSA Regional Congress and ITTO/AFF Forest Policy Day, Nairobi, Kenya, 25-29 June.**
336. Linnakoski, R., Z.W. de Beer, A. Pappinen, P. Niemela and M.J. Wingfield. 2012. Bark beetle-fungal associations in the boreal forests. **British Mycological Society Annual Scientific Meeting, University of Alicante, Spain, 3-6 September.**
337. Mutitu, K.E., J. Garnas, B.P. Hurley, M.J. Wingfield and B. Slippers. 2012. The *Thaumastocoris peregrinus* (Heteroptera: Thaumastocoridae) invasion in Africa and possible options for management. A paper presented at the **IUFRO-FORNESSA Regional Congress and ITTO/AFF Forest Policy Day, Nairobi, Kenya, 25-29 June.**
338. Roets, F., K. Oberlander, L. Dreyer, N. Theron, M.J. Wingfield and B.D. Wingfield. 2012. Plant – Fungi – Arthropod interactions in a biodiversity hotspot: case studies from the Cape Floristic Region of South Africa (Part one) – The role of mites in the dispersal of saprobic microfungi on *Protea*. **International conference on advances in Plant Sciences, Chian Mai, Thailand, 14-18 November.**
339. Roux, J., E. Mutitu, S. Mause-Sitoe, G. Nakabonge and M.J. Wingfield. 2012. Plantation Tree Health in Africa. A paper presented at the **IUFRO-FORNESSA Regional Congress and ITTO/AFF Forest Policy Day, Nairobi, Kenya, 25-29 June.**

340. Taerum, S., Z.W. de Beer, T.A. Duong, M. Lu, N. Gillette, J.H. Sun and M.J. Wingfield. 2012. Fungal symbionts suggest and alternative origin for the red turpentine beetle (*Dendroctonus valens*) invasion in China. **Mycological Society of America 2012 Meeting, Yale University, New Haven, Connecticut, 15-18 July.**
341. Al Adawi AO, Barnes I, Deadman ML, Wingfield BD, Wingfield MJ. 2013. Mango wilt disease: A serious threat to mango industries worldwide. **10th International Congress of Plant Pathology (ICPP). Beijing, China, 25-30 August.**
342. Andrée N, Wingfield MJ, Kirisits T, Barnes I. 2013. Development of microsatellite markers for the laricina needle cast pathogen *Mycosphaerella laricina*. **IUFRO WP 7.02.02: Biosecurity in natural forests and plantations, genomics and biotechnology for biosecurity in forests. Cerna Hora, Czech Republic.**
343. Carstensen GD, Venter SN, Wingfield MJ, Coutinho TA. 2013. Classification of *Ralstonia solanacearum* isolates from diseased *Eucalyptus* using phylotyping and DNA sequence analyses. **10th International Congress of Plant Pathology (ICPP). Beijing, China, 25-30 August.**
344. Castro BL, Cortina HA, Roux J and Wingfield MJ. 2013. Selection of coffee genotypes with re-sistance to coffee leaf rust and Ceratocystis canker from interspecific hybrids (*Coffea arabica* x *Coffea canephora*). **10th International Congress of Plant Pathology (ICPP), Beijing, China, 25-30 August.**
345. Castro BL, Carreño AJ, Galeano NF, Roux J, Wingfield MJ and Gaitán AL. 2013. Identification and genetic diversity of *Rosellinia* spp. associated with root rot of coffee in Colombia. **10th International Congress of Plant Pathology (ICPP), Beijing, China, 25-30 August.**
346. Chen SF, Roux J, Xie YJ and Wingfield MJ. 2013. Diseases of eucalypts in China. Coutinho TA, van der Westhuizen L, MacFarlane S, Roux J, Carstensen GD and Venter SN. 2013. *Xanthomonas vasicola* pv. Vasculorum jumps hosts from sugarcane to Eucalyptus in South Africa. **10th International Congress of Plant Pathology (ICPP), Beijing, China, 25-30 August.**
347. De Beer ZW, Duong TA, Wingfield MJ. 2013. What does one fungus one name mean for *Sporothrix* and *Ophiostoma*? **1st International Meeting on Sporothrix and Sporotrichosis. Rio de Janeiro, Brazil.**
348. De Beer ZW, Seifert KA, Wingfield MJ. 2013. Pragmatism in the application of single name nomenclature to the ophiostomatoid fungi. **CBS Spring Symposium, One Fungus: Which Gene(s) (1F = ?G). Amsterdam, the Netherlands, 10-11 April.**
349. Dittrich-Schröder G, Harney M, Naser S, Joffe T, Bush S, Hurley BP, Wingfield MJ, Slippers B. 2013. Biology and observed host preference of *Selitrichodes neneri*: a potential biological control agent of the Eucalyptus gall wasp, *Leptocybe invasa*. **6th International Symposium on the Biology and Ecology of Gall Inducing Arthropods and Related Endophytes. O'Reilly's Rainforest Retreat, Queensland, Australia, 4-8 August.**
350. Dittrich-Schröder G, Hurley BP, Wingfield MJ, Slippers B. 2013. Route of invasion and diversity of global *Leptocybe invasa* populations. **6th International Symposium on the Biology and Ecology of Gall Inducing Arthropods and Related Endophytes. O'Reilly's Rainforest Retreat, Queensland, Australia, 4-8 August.**
351. Fourie G, Van der Merwe NA, Wingfield BD, Bogale M, Tudzynski B, Wingfield MJ, Steenkamp ET. 2013. The mitochondrial genomes of *Fusarium circinatum*, *F. verticillioides*

and *F. fujikuroi* are unexpectedly similar. **The 27th Fungal Genetics Conference. Pacific Grove, California, USA.**

352. Fourie G, Van der Merwe NA, Wingfield BD, Wingfield MJ, Steenkamp ET. 2013. Mitochondrial recombination suggests hybrid speciation within the *Gibberella fujikuroi* species complex. **10th International Congress of Plant Pathology (ICPP). Beijing, China, 25-30 August.**
353. Herron DA, Wingfield MJ, Marincowitz S, Kvas M, Wingfield BD, Rodas CA and Steenkamp ET. 2013. Novel *Fusarium* species associated with diseased *Pinus* species in Colombia. **10th International Congress of Plant Pathology (ICPP). Beijing, China, 25-30 August.**
354. Hurley BP, Dittrich-Schroder G, Baffoe KO, Harney M, Bush S, Naser S, Slippers B, Wingfield MJ. 2013. Biology and establishment of *Selitrichodes neseri*, a new biological control agent for the eucalyptus gall wasp, *Leptocybe invasa*. **4th International Symposium on Biological Control of Arthropods. Pucon, Chile, 4-8 March.**
355. Jami F, Slippers B, Wingfield MJ, Gryzenhout M. 2013. Botryosphaeriaceae: A case study with four unrelated native South African hosts. **10th International Congress of Plant Pathology (ICPP). Beijing, China, 25-30 August.**
356. Jami F, Slippers B, Wingfield MJ, Gryzenhout M. 2013. Diversity and distribution of latent pathogenic Botryosphaeriaceae on native *Acacia* in South Africa. **10th International Congress of Plant Pathology (ICPP). Beijing, China, 25-30 August.**
357. Jimu L, Wingfield MJ, Mwenje E, Roux J. 2013. Fungal pathogens occurring in eucalypt plantations and woodlots in Zimbabwe. **10th International Congress of Plant Pathology (ICPP). Beijing, China, 25-30 August.**
358. Jimu L, Chen S, Wingfield MJ, Mwenje E, Roux J. 2013. Origin and distribution of the eucalypt stem canker pathogen *Teratosphaeria zuluensis*. **10th International Congress of Plant Pathology (ICPP). Beijing, China, 25-30 August.**
359. Marincowitz S, De Beer ZW, Wingfield MJ. 2013. Fungal Diversity in South Africa. **China-South Africa Join Symposium: Fungal Bioresources and Application. Beijing, China.**
360. Nkuekam GK, Uchida J, Kadooka C, Friday JB, Loope L, Wingfield MJ and Roux J. 2013. A diverse assemblage of Cryphonectriaceae species associated with non-native Myrtales on the Hawaiian Islands. **10th International Congress of Plant Pathology (ICPP), Beijing, China, 25-30 August.**
361. Roux J, Jimu L, Wingfield MJ. 2013. Continuing spread of plantation pests and pathogens – is there a solution? **Proceedings of the IUFRO Lat Conference. San Jose, Costa Rica, 12-14 June.**
362. Roux J, Wingfield MJ, Coetzee MPA. 2013. Exploratory studies of *Ganoderma* species in the Garden Route of South Africa. **10th International Congress of Plant Pathology (ICPP). Beijing, China, 25-30 August.**
363. Siziba V, Wingfield MJ, Barnes I. 2013. Microsatellite markers development for the cryptic species *Dothistroma pini*. **IUFRO WP 7.02.02: Biosecurity in natural forests and plantations, genomics and biotechnology for biosecurity in forests. Cerna Hora, Czech Republic.**
364. Slippers B, M. Coetzee, B.D. Wingfield, S. Naidoo, A. Postma, C. Oates, M. Kemler, A. Marsberg, M. Gryzenhout, M.J. Wingfield. 2013. Opportunities for tree health research in

the era of genomics. **IUFRO WP 7.02.02: Biosecurity in natural forests and plantations, genomics and biotechnology for biosecurity in forests.** Cerna Hora, Czech Republic.

365. Slippers B, Kemler M, Wingfield MJ. 2013. Dealing with the global movement of plant-associated fungi, including emerging plant diseases. **Workshop on Global Challenges University Alliance, Environment monitoring and detection of invasive species - current challenges.** Uppsala, Sweden. 4-6 September.
366. Steenkamp ET, van der Merwe NA, Coetzee MPA, De Vos L, Santana QC, Fourie G, Herron DA, Martin SH, Wingfield MJ and Wingfield BD. 2013. The role of hybridization and gene exchange in the evolution of the *Gibberella fujikuroi* complex. **10th International Congress of Plant Pathology (ICPP), Beijing, China, 25-30 August.**
367. van der Merwe NA, Wingfield BD, Wingfield MJ and Steenkamp ET. 2013. Population genetic analyses enhance the recognition of species boundaries in fungal pathogens. **10th International Congress of Plant Pathology (ICPP), Beijing, China, 25-30 August.**
368. Wilken PM, Steenkamp ET, Wingfield MJ, De Beer ZW, Wingfield BD. 2013. Molecular basis of mating type switching in *Ceratocystis fimbriata*. **10th International Congress of Plant Pathology (ICPP). Beijing, China, 25-30 August.**
369. Carstensen, G.D., S.N. Venter, S.F. Chen, M.J. Wingfield, T.A. Coutinho. 2014. Metagenomic analysis of the bacterial exudate from Eucalyptus trees with symptoms of bacterial wilt in China. **13th International Conference on Plant Pathogenic Bacteria, Shanghai, China, 8-13 June.**
370. Carstensen, G.D., S.N. Venter, M.J. Wingfield, T.A. Coutinho. 2014. Phylotyping *Ralstonia solanacearum* isolates associated with bacterial wilt of *Eucalyptus* spp. **13th International Conference on Plant Pathogenic Bacteria, Shanghai, China, 8-13 June.**
371. Ando Y., H. Masuya, R. Linnakoski, Z.W. de Beer, M.J. Wingfield, Y. Yamaoka. 2014. Phylogenetic relationships in the *Grosmannia piceiperda* complex. **10th International Mycological Congress (IMC), Bangkok, Thailand. 3-8 August.**
372. Barnes I., C.A. Rodas, M.J. Wingfield. 2014. New invasions of the needle blight pathogen *Dothistroma septosporum* in Colombia. **10th International Mycological Congress (IMC), Bangkok, Thailand. 3-8 August.**
373. Barnes I., D. Owen, N. Gillette, W. Bihon, B.D. Wingfield, M.J. Wingfield. 2014. A serious shoot blight disease of *Pinus ponderosa* in California caused by a single clone of *Diplodia sapinea*. **10th International Mycological Congress (IMC), Bangkok, Thailand. 3-8 August.**
374. Chang R., T.A. Duong, S.J. Taerum, M.J. Wingfield, X. Zhou, Z.W. de Beer. 2014. Ophiostomatoid fungi associated with two important conifer-infesting bark beetle species in northeastern China. **10th International Mycological Congress (IMC), Bangkok, Thailand. 3-8 August.**
375. De Beer Z.W., T.A. Duong, B.D. Wingfield, M.J. Wingfield. 2014. Redefining *Ceratocystis* and allied genera in the Ceratocystidaceae (Microascales). **10th International Mycological Congress (IMC), Bangkok, Thailand. 3-8 August.**
376. Duong T., Z.W. De Beer, B. Wingfield, L. Eckhardt, M.J. Wingfield. 2014. Multigene phylogeny reveals that isolates of the pine root-infecting fungus, *Grosmannia huntii*,

represent two distinct species. **10th International Mycological Congress (IMC), Bangkok, Thailand. 3-8 August.**

377. Duong T., Z.W. De Beer, B. Wingfield, M. Wingfield. 2014. Evolution of the mating system in *Leptographium sensu lato*. **10th International Mycological Congress (IMC), Bangkok, Thailand. 3-8 August.**
378. Ebinghaus M., D. Begerow, W. Maier, M.J. Wingfield. 2014. Who seeks will find - *Ravenelia* on South African thorn trees. **10th International Mycological Congress (IMC), Bangkok, Thailand. 3-8 August.**
379. Fourie A., M.J. Wingfield, B.D. Wingfield, I. Barnes. 2014. Exploring boundaries between cryptic species in the *Ceratocystis fimbriata sensu lato* complex. **10th International Mycological Congress (IMC), Bangkok, Thailand. 3-8 August.**
380. Fourie A., M.J. Wingfield, B.D. Wingfield, P.Q. Thu, I. Barnes. 2014. Identification of *Ceratocystis* isolates in Vietnam and analysis of genetic diversity of *C. manginecans*. **10th International Mycological Congress (IMC), Bangkok, Thailand. 3-8 August.**
381. Kemler M., J. Garnas, M.J. Wingfield, B. Slippers. 2014. Fungal communities in the phyllosphere of trees in South Africa. **10th International Mycological Congress (IMC), Bangkok, Thailand. 3-8 August.**
382. Konkarn M., M.J. Wingfield, K.D. Hyde, Z.W. de Beer. 2014. Taxonomic revision of the *Ophiostoma ips* species complex based on multigene phylogenies. **10th International Mycological Congress (IMC), Bangkok, Thailand. 3-8 August.**
383. Koskinen T., R. Linnakoski, Z.W. de Beer, A. Pappinen, M.J. Wingfield. 2014. A new *Ophiostoma* species in the *O. pluriannulatum* complex from Ghana. **10th International Mycological Congress (IMC), Bangkok, Thailand. 3-8 August.**
384. Linnakoski R., C. Villari, Z.W. de Beer, T. Kirisits, R. Jankowiak, M.J. Wingfield. 2014. Phylogenetic relationships between species in the *Ophiostoma clavatum* complex. **10th International Mycological Congress (IMC), Bangkok, Thailand. 3-8 August.**
385. Marinowitz S., T.A. Duong, Z.W. De Beer, M.J. Wingfield. 2014. *Cornuvesica*: a little known genus in the Ceratocystidaceae including unexpected new species. **10th International Mycological Congress (IMC), Bangkok, Thailand. 3-8 August.**
386. Mbenoun M., B. Wingfield, M.J. Wingfield, T. Letsoalo, W. Bihon, J. Roux. 2014. Independent origins and cryptic speciation among host-associated populations of *Ceratocystis ethacetica* in Cameroon. **10th International Mycological Congress (IMC), Bangkok, Thailand. 3-8 August.**
387. Osorio J., Z.W. de Beer, M.J. Wingfield, J. Roux. 2014. *Pseudocercospora* sp. nov., The causal agent of fruits and leaves disease of *Barringtonia racemosa* in South Africa. **10th International Mycological Congress (IMC), Bangkok, Thailand. 3-8 August.**
388. Pavlic-Zupanc D., H.M. Maleme, B.D. Wingfield, M.J. Wingfield, B. Slippers. 2014. Five species of Botryosphaeriaceae identified from *Eucalyptus* grown in the urban habitats of Pretoria, South Africa. **10th International Mycological Congress (IMC), Bangkok, Thailand. 3-8 August.**
389. Pavlic-Zupanc D., M.J. Wingfield, E. Boissin, B. Slippers. 2014. Cryptic diversity and distribution of phytopathogenic species in the *Neofusicoccum parvum*/N. *ribis* complex. **10th International Mycological Congress (IMC), Bangkok, Thailand. 3-8 August.**

390. Roux J., G. Kamgan Nkuekam, J. Uchida, C. Kadooka, J.B. Friday, L. Loope, M.J. Wingfield. 2014. Identity and diversity of the Cryphonectriaceae on Myrtales in Hawaii. **10th International Mycological Congress (IMC), Bangkok, Thailand. 3-8 August.**
391. Santana Q.C., M.P.A. Coetzee, E.T. Steenkamp, B.D. Wingfield, M.J. Wingfield. 2014. Synteny in the genomes of the closely related pathogens, *Fusarium circinatum* and *Fusarium verticillioides*. **10th International Mycological Congress (IMC), Bangkok, Thailand. 3-8 August.**
392. Selochnik N.N., N.V. Pashenova, E. Sidorov, R. Linnakoski, M.J. Wingfield. 2014. *Ophiostoma* spp. and their roles in oak decline in the Tellermann forest. **10th International Mycological Congress (IMC), Bangkok, Thailand. 3-8 August.**
393. Shuttleworth L., J. Roux, M. Wingfield. 2014. Four species of *Lasiodiplodia* on Myrtales from southern Africa including two new species. **10th International Mycological Congress (IMC), Bangkok, Thailand. 3-8 August.**
394. Slippers B., M. Kemler, F. Jami, E. Cruywagen, J. Roux, M.J. Wingfield. 2014. Biogeographic distribution of Botryosphaeriaceae as an illustration of the global movement of plant associated fungi. **10th International Mycological Congress (IMC), Bangkok, Thailand. 3-8 August.**
395. Slippers B., C. Botha, A. Wooding, M. van der Nest, M.P.A Coetzee, A. Postma, E. Boissin, B.D. Wingfield, M.J. Wingfield. 2014. Co-evolution of Amylostereum fungi and Siricid woodwasps. **10th International Mycological Congress (IMC), Bangkok, Thailand. 3-8 August.**
396. Taerum S.J., T.A. Duong, Z.W. de Beer, M.J. Wingfield. 2014. Origin and diversity of the fungus *Leptographium procerum* associated with the red turpentine beetle in China. **10th International Mycological Congress (IMC), Bangkok, Thailand. 3-8 August.**
397. Wingfield B., W. Bihon, T. Burgess, B. Slippers, M.J. Wingfield. 2014. Using population genetics to understand the biology of an apparently asexual and important pine pathogen. **10th International Mycological Congress (IMC), Bangkok, Thailand. 3-8 August.**
398. Yin M., M.J. Wingfield, T.A. Duong, X. Zhou, Z.W. De Beer. 2014. Phylogenetic analyses resolve species boundaries in the *Leptographium procerum* complex. **10th International Mycological Congress (IMC), Bangkok, Thailand. 3-8 August.**
399. Perez c. A., M.J. Wingfield, S. Simeto, D. Torres-Dini, and G. Balmelli. 2014. *Teratosphaeria pseudoeucalypti*, recently detected and seriously damaging red gum eucalypts in Uruguay. **Annual meeting of the American Phytopathological Society, Minneapolis, Minnesota, USA, 6-13 August.**
400. Bauman, T., I. Eckhardt, R. Menard, Z.W. de Beer, A. Sediles and M.J. Wingfield. 2014. Fungal associates of the pine-infesting bark beetle *Dendroctonus approximatus* in Mexico and Central America. **The 2014 IUFRO World Congress, Salt Lake City USA, 5-11 October.**
401. Eckhardt, I., S. Ditchkoff, T. Duong, Z.W. de Beer and M.J. Wingfield. 2014. Two new ophiostomatoid species isolated from soil on snouts of feral hogs damaging pine roots in Georgia, USA. **The 2014 IUFRO World Congress, Salt Lake City USA, 5-11 October.**
402. Garnas J., I. Gryeling, B. Hurley, M. Wingfield, B. Slippers. 2014. Impacts of insect host diversity, tree species and temperature on parasitism of the Eucalyptus snout beetle

(*Gonipterus* spp.) by *Anaphes nitens*. **The 2014 IUFRO World Congress, Salt Lake City USA, 5-11 October.**

403. Garnas J., D. Degefu, B. Hurley, M. Wingfield, B. Slippers. 2014. Population genetics reveals the origin of the *Coryphodema tristis* host expansion to *Eucalyptus nitens* in South Africa. **The 2014 IUFRO World Congress, Salt Lake City USA, 5-11 October.**
404. Greyling I., G. van den Berg, I. Harrison, D. da Costa, B. Peinaar, M. Mphahlele, W. de Beer, M. Wingfield, J. Roux. 2014. Biotic and abiotic factors associated with large scale die-off of a *Eucalyptus* clone in Zululand, South Africa. **The 2014 IUFRO World Congress, Salt Lake City USA, 5-11 October.**
405. Hurley B., G. Dittrich-Schröder, K. Baffoe, M. Wingfield, B. Slippers, J. Garnas. 2014. Biological control of the eucalyptus gall wasp, *Leptocybe invasa*, in South Africa. **The 2014 IUFRO World Congress, Salt Lake City USA, 5-11 October.**
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502. Wingfield, M. J., B. D. Wingfield and B. Slippers. 2018. Planted forest health: The need for a global strategy. **International Congress of Plant Pathology (ICPP), Boston, 28 July - 3 Aug.**
503. Migliorini, D., M. Messal, M.J. Wingfield, A. Santini, T.I. Burgess. 2018. Pathogenic fungi persist with plant propagation material moved from Africa to Europe. **COST Conference: Sentinel plantings for detecting alien, potentially damaging tree pests. Sursee, Switzerland, 9-12 October.**
504. Paap, T., Z.W. de Beer, T.I. Burgess, M.J. Wingfield. 2018. Sentinel tree research in botanical gardens of South Africa. **COST Conference: Sentinel plantings for detecting alien, potentially damaging tree pests. Sursee, Switzerland, 9-12 October.**
505. Santini, A., T. Paap, M.J. Wingfield. 2018. Myrtle rust: A threat for European mediterranean ecosystems. **COST Conference: Sentinel plantings for detecting alien, potentially damaging tree pests. Sursee, Switzerland, 9-12 October.**
506. Zlatković, M., M.J. Wingfield, F. Jami, B. Slippers. 2018. Invasive pathogens in urban sentinel plantings: A case study with Botryosphaeriaceae in the Western Balkans. **COST Conference: Sentinel plantings for detecting alien, potentially damaging tree pests. Sursee, Switzerland, 9-12 October.**
507. Aylward J., F. Roets, L. Dreyer, M.J. Wingfield, B.D. Wingfield. 2019. A high resolution phylogeny from the genome data of Teratosphaeria leaf and stem pathogens. **XXV IUFRO World Congress 2019. Curitiba, Brazil, 29 September - 5 October.**
508. Burgess T.I., M.J. Wingfield. 2019. Global movement of *Eucalyptus* pathogens successfully managed by species selection or resistance breeding. **XXV IUFRO World Congress 2019. Curitiba, Brazil, 29 September - 5 October.**
509. Chen S.F., M.J. Wingfield. 2019. Diseases of eucalypts in China. **XXV IUFRO World Congress 2019. Curitiba, Brazil, 29 September - 5 October.**
510. Dittrich-Schröder G, B.P. Hurley, M.J. Wingfield, B. Slippers. 2019. Molecular tools advance the management of invasive gall-forming wasps associated with plantation forestry. **XXV IUFRO World Congress 2019. Curitiba, Brazil, 29 September - 5 October.**
511. Fraser S., A.R. McTaggart, J. Roux, M.J. Wingfield. 2019. Life cycle and field epidemiology of the rust pathogen *Uromycladium acaciae* on *Acacia mearnsii*. **XXV IUFRO World Congress 2019. Curitiba, Brazil, 29 September - 5 October.**
512. Ganley. 2019. Assessment of the susceptibility of native New Zealand Myrtaceae to infection by the South African strain of *Austropuccinia psidii*. **XXV IUFRO World Congress 2019. Curitiba, Brazil, 29 September - 5 October.**
513. Granados G.M., A.R. McTaggart, C.A. Rodas, J. Roux, M.J. Wingfield. 2019. Undetected endophytic fungi as a quarantine risk to commercial *Eucalyptus* plantations in Colombia. **XXV IUFRO World Congress 2019. Curitiba, Brazil, 29 September - 5 October.**
514. Herron D., E.T. Steenkamp, B.D. Wingfield, M.J. Wingfield. 2019. *Fusarium circinatum* on non-pine hosts enhance the global threat of pine pitch canker. **XXV IUFRO World Congress 2019. Curitiba, Brazil, 29 September - 5 October.**
515. Hulbery J., F. Roets, T.I. Burgess, M.J. Wingfield. 2019. Non-scientist contributions to plant disease research in South Africa. **XXV IUFRO World Congress 2019. Curitiba, Brazil, 29 September - 5 October.**

516. Liu F.F., I. Barnes, M.J. Wingfield, S.F. Chen. 2019. Ceratocystidaceae on trees in China and their potential threat to plantation tree health. **XXV IUFRO World Congress 2019. Curitiba, Brazil, 29 September - 5 October.**
517. Liu F.F., T.A. Duong, I. Barnes, M.J. Wingfield, S.F. Chen. 2019. Genetic analyses reveal signatures of host specialization and recent host shifts in the *Ceratocystis manginecans* complex. **XXV IUFRO World Congress 2019. Curitiba, Brazil, 29 September - 5 October.**
518. Perez C, G. Balmelli, S. Simeto, N. Ramirez, R. Blanchette, M.J. Wingfield. 2019. Teratosphaeria leaf diseases: a major threat for eucalypts plantations in Uruguay. **XXV IUFRO World Congress 2019. Curitiba, Brazil, 29 September - 5 October.**
519. Sadiković D., B. Piškur, I. Barnes, T. Hauptman, D. Diminić, M.J. Wingfield, D. Jurc. 2019. Population structure of the brown spot needle blight pathogen *Lecanosticta acicola* in Southeast Europe. **XXV IUFRO World Congress 2019. Curitiba, Brazil, 29 September - 5 October.**
520. Slippers B., E.T. Steenkamp., F. Jami., M.J. Wingfield. 2019. Interconnected global populations of forest pathogens created through anthropogenic spread. **XXV IUFRO World Congress 2019. Curitiba, Brazil, 29 September - 5 October.**
521. van der Nest A., M.J. Wingfield, V.I. Sibiza, P. Vesela, I. Barnes. 2019. The population structure and genetic diversity of the pine needle pathogen, *Dothistroma pini* in Europe. **XXV IUFRO World Congress 2019. Curitiba, Brazil, 29 September - 5 October.**
522. Wang W., M.J. Wingfield, S.F. Chen. 2019. A wide host range and high levels of genetic diversity characterise Cryphonectriaceae stem canker pathogens on Myrtales in Southern China. **XXV IUFRO World Congress 2019. Curitiba, Brazil, 29 September - 5 October.**
523. Wingfield B.D., I. Barnes, C. Trollip, M.A. van der Nest, A. Kanzi, M.J. Wingfield. 2019. Comparison of genomes in closely related *Ceratocystis* pathogens of trees. **XXV IUFRO World Congress 2019. Curitiba, Brazil, 29 September - 5 October.**
524. Wingfield B.D., L. de Vos, S. van Wyk, B. Swalarsk-Parry, M.J. Wingfield, E.T. Steenkamp. 2019. QTLs and the genes linked to growth rate differences in *Fusarium circinatum*, the pine pitch canker pathogen. **XXV IUFRO World Congress 2019. Curitiba, Brazil, 29 September - 5 October.**
525. Danki V, E.T. Steenkamp, L. de Vos, B. Swalarsk-Parry, F. Muchadeyi, N. Mchunu, Å. Olsen, B.D. Wingfield, M.A. van der Nest. 2022. GWAS for investigating laccase expression in *Ceratocystis albifundus*. **31st Fungal Genetics Meeting. Asilomar, California, USA, 15-20 March.**
526. Motaung T., F. Ratsoma, Q. Santana, B.D. Wingfield, E.T. Steenkamp. 2022. Extracellular vesicles and biofilms of the pine tree pathogen *Fusarium circinatum*. **31st Fungal Genetics Meeting. Asilomar, California, USA, 15-20 March.**
527. Phasha M., M.J. Wingfield, B.D. Wingfield, M. Coetzee, E.T. Steenkamp. 2022. Transcriptome analysis of *ras2* knockout mutant and wild type *Fusarium circinatum* strains: molecular insights into growth, development and virulence. **31st Fungal Genetics Meeting. Asilomar, California, USA, 15-20 March.**
528. Shaw P., B. Laurent, B.D. Wingfield, B. Slippers, M.J. Wingfield, B. Penaud, P.W. Crous, W. Bihon, T.A. Duong. 2022. The latent pine pathogen *Diplodia sapinea* contains two

dispensable chromosomes with distinct genomic characteristics. **31st Fungal Genetics Meeting. Asilomar, California, USA, 15-20 March.**

529. Wilken M, E.T. Steenkamp, M.J. Wingfield, B.D. Wingfield. 2022. Diverse sexual strategies underpinned by the mating-type locus in the non-model fungal family *Ceratocystidaceae*. **31st Fungal Genetics Meeting. Asilomar, California, USA, 15-20 March.**
530. Wingfield B.D., A.M. Wilson, M.J. Wingfield. 2022. Truncation of *MAT1-2-7* gene leads to changes in the pheromone response pathway of *Huntia omanensis*. **31st Fungal Genetics Meeting. Asilomar, California, USA, 15-20 March.**
531. Wingfield B.D., M.J. Wingfield, T.A. Duong. 2022. Mutation in the ribosomal protein gene *eL42* results in Cycloheximide resistance in the Ophiostomatales. **31st Fungal Genetics Meeting. Asilomar, California, USA, 15-20 March.**
532. Wingfield B.D., M.J. Wingfield, N.Q. Pham, I. Barnes, A. Durán. 2022. Characterisation of the mating type loci in *Elsinoe* including the *Eucalyptus* pathogen *Elsinoe necatrix*. **31st Fungal Genetics Meeting. Asilomar, California, USA, 15-20 March.**

4.5.2 National Meetings

1. Wingfield, M.J. and F.H.J. Rijkenberg. 1978. Aspects of *Cercosporidium personatum* and *Puccinia arachidis* on *Arachis hypogea*. **Proceedings of the Annual Congress of the South African Society of Plant Pathology and Microbiology, Stellenbosch, January 1978.**
2. Wingfield, M.J. 1979. The present status of forest diseases in South Africa. **Proceedings of the Annual Congress of the South African Society of Plant Pathology and Microbiology, Durban, January 1979.**
3. Wingfield, M.J. and W.F.O. Marasas. 1980. *Verticicladiella alacris* associated with a root disease of pines in South Africa. **Proceedings of the Annual Congress of the South African Society of Plant Pathology and Microbiology, Bloemfontein, January 1980.**
4. Knox-Davies, P.S., M.J. Wingfield, S. von Broembsen and W.F.O. Marasas. 1980. *Pittosporum* die-back in the Western Cape Province of South Africa. **Proceedings of the Annual Congress of the South African Society of Plant Pathology and Microbiology, Bloemfontein, January 1980.**
5. Knox-Davies, P.S., W.F.O. Marasas, M.J. Wingfield and S.L. von Broembsen. 1981. *Botryosphaeria* isolates from the Western Cape. **Proceedings of the Annual Congress of the South African Society of Plant Pathology, Pietermaritzburg, January 1981.**
6. Wingfield, M.J. 1985. Conidium development in *Verticicladiella*, *Phialocephala* and *Leptographium*. **23rd Annual Congress of the South African Society for Plant Pathology, University of Fort Hare, Alice, January, 1985. Phytophylactica 17: 58.**
7. Wingfield, M.J. and I. Du Toit. 1986. Cypress canker caused by two *Seiridium* spp. in South Africa. **24th Annual Congress of the South African Society for Plant Pathology, Golden Gate National Park, 20 - 23 January, 1986. Phytophylactica 18: 43.**
8. Swart, W.J., P.S. Knox-Davies and M.J. Wingfield. 1986. *Sphaeropsis sapinea* on *Pinus* spp in South Africa. **24th Annual Congress of the South African Society for Plant Pathology, Golden Gate National Park, 20 - 23 January, 1986. Phytophylactica 18: 44.**
9. Wingfield, M.J. 1987. *Leptographium* spp. and their association with insect-related conifer root disease. **Proceedings of the Annual Congress of the South African Association of Botanists, Durban, January, 1987.**
10. Wingfield, M.J. and P.S. Van Wyk. 1987. Conidium development in the *Graphium* complex. **25th Annual Congress of the South African Society for Plant Pathology, University of the Orange Free State, Bloemfontein, 20 - 22 January, 1987. Phytophylactica 19: 129.**
11. Van Wyk, P.S. and M.J. Wingfield. 1987. Does sympodial conidial development occur in *Leptographium* spp? **25th Annual Congress of the South African Society for Plant Pathology, University of the Orange Free State, Bloemfontein, 20 - 22 January, 1987. Phytophylactica 19: 127.**

12. Wingfield, M.J. 1987. Foliar pathogens of *Eucalyptus* in South Africa. **25th Annual Congress of the South African Society for Plant Pathology, University of the Orange Free State, Bloemfontein, 20 - 22 January, 1987. Phytomycolactica 19: 123.**
13. Swart, W.J., M.J. Wingfield and P.S. Knox-Davies. 1987. Dispersal of *Sphaeropsis sapinea* conidia in three climatic regions of South Africa. **25th Annual Congress of the South African Society for Plant Pathology, University of the Orange Free State, Bloemfontein, 20 - 22 January, 1987. Phytomycolactica 19: 124.**
14. Swart, W.J., M.J. Wingfield and P.S. Knox-Davies. 1987. Selective medium for isolating *Sphaeropsis sapinea*. **25th Annual Congress of the South African Society for Plant Pathology, University of the Orange Free State, Bloemfontein, 20 - 22 January, 1987. Phytomycolactica 19: 129.**
15. Wingfield, M.J. 1987. Insect associates and origins of the fungal genus *Leptographium* in South Africa. **Proceedings of the 6th Congress of the Entomological Society of South Africa, Stellenbosch, July 1987.**
16. Wingfield, M.J., P.S. Van Wyk and W.F.O. Marasas. 1988. Taxonomic significance of *Ceratocystiopsis proteae* sp. nov. on *Protea repens*. **Proceedings of the Annual Congress of the South African Association of Botanists, Cape Town, 1988.**
17. Wingfield, M.J. 1988. A case for revising the genus *Ceratocystiopsis*. **26th Annual Congress of the South African Society for Plant Pathology, Berg en Dal, Kruger National Park, 19 - 21 January, 1988. Phytomycolactica 20: 97.**
18. Wingfield, M.J., P.S. van Wyk and W.F.O. Marasas. 1988. A new *Graphium* species with unusual conidial development. **26th Annual Congress of the South African Society for Plant Pathology, Berg en Dal, Kruger National Park, 19 - 21 January, 1988. Phytomycolactica 20: 103.**
19. Swart, W.J., M.J. Wingfield and P.S. Knox-Davies. 1988. Variation among isolates of *Sphaeropsis sapinea* in South Africa. **26th Annual Congress of the South African Society for Plant Pathology, Berg en Dal, Kruger National Park, 19 - 21 January, 1988. Phytomycolactica 20: 102.**
20. Swart, W.J. and M.J. Wingfield. 1988. Climatic factors associated with conidial dispersal of *Seiridium cardinale*. **26th Annual Congress of the South African Society for Plant Pathology, Berg en Dal, Kruger National Park, 19 - 21 January, 1988. Phytomycolactica 20: 106.**
21. Van Wyk, P.S., L. Bosman, M.J. Wingfield and W.F.O. Marasas. 1988. Development of microconidia in *Fusarium chlamydosporum*. **26th Annual Congress of the South African Society for Plant Pathology, Berg en Dal, Kruger National Park, 19 - 21 January, 1988. Phytomycolactica 20: 102.**
22. Wingfield, M.J. 1989. Future Trends in Forest Pathology. **27th Annual Congress of the South African Society for Plant Pathology, University of Cape Town, 16 - 18 January, 1989. Phytomycolactica 21: 102.**
23. Van Wyk, P.W.J., M.J. Wingfield and P.S. van Wyk. 1989. Ascospore development in *Ophiostoma seticolle*. **27th Annual Congress of the South African Society for Plant Pathology, University of Cape Town, 16 - 18 January, 1989. Phytomycolactica 21: 102.**

24. Wingfield, M.J., P.S. van Wyk and P.W.J. van Wyk. 1989. Conidial development in the anamorph of *Ophiostoma cucullatum*. **27th Annual Congress of the South African Society for Plant Pathology, University of Cape Town, 16 - 18 January, 1989. Phytomycolactica 21: 100.**
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26. Swart, W.J., M.J. Wingfield and A.P. Baxter. 1989. *Discula platani* on plane trees in South Africa - a first report. **27th Annual Congress of the South African Society for Plant Pathology, University of Cape Town, 16 - 18 January, 1989. Phytomycolactica 21: 110.**
27. Crous, P.W., P.S. Knox-Davies and M.J. Wingfield. 1989. *Eucalyptus* leaf diseases in South Africa. **27th Annual Congress of the South African Society for Plant Pathology, University of Cape Town, 16 - 18 January, 1989. Phytomycolactica 21: 108.**
28. Crous, P.W., P.S. Knox-Davies and M.J. Wingfield. 1989. *Mycosphaerella nubilosa* on *Eucalyptus* spp. in South Africa. **27th Annual Congress of the South African Society for Plant Pathology, University of Cape Town, 16 - 18 January, 1989. Phytomycolactica 21: 109.**
29. Crous, P.W., M.J. Wingfield and W.F.O. Marasas. 1989. *Pseudocercospora eucalyptorum* sp. nov. pathogenic to *Eucalyptus* leaves. **27th Annual Congress of the South African Society for Plant Pathology, University of Cape Town, 16 - 18 January, 1989. Phytomycolactica 21: 101.**
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31. Kemp, G.H.J., Z.A. Pretorius, M.J. Wingfield and L. Brink. 1990. Head blight of wheat associated with *Fusarium poae* and the mite, *Siteroptes avenae*. **28th Annual Congress of the South African Society for Plant Pathology, University of Pretoria, 16 - 18 January, 1990. Phytomycolactica 22: 145.**
32. Crous, P.W. and M.J. Wingfield. 1990. The genus *Harknessia* on *Eucalyptus*. **28th Annual Congress of the South African Society for Plant Pathology, University of Pretoria, 16 - 18 January, 1990. Phytomycolactica 22: 146.**
33. Crous, P.W., M.J. Wingfield and W.J. Swart. 1990. Shoot and needle diseases of pines. **28th Annual Congress of the South African Society for Plant Pathology, University of Pretoria, 16 - 18 January, 1990. Phytomycolactica 22: 155.**
34. Crous, P.W., M.J. Wingfield and S.H. Koch. 1990. Five newly reported *Eucalyptus* leaf fungi. **28th Annual Congress of the South African Society for Plant Pathology, University of Pretoria, 16 - 18 January, 1990. Phytomycolactica 22: 155.**
35. Swart, W.J. and M.J. Wingfield. 1990. *Sphaeropsis* dieback of pines - a case study. **28th Annual Congress of the South African Society for Plant Pathology, University of Pretoria, 16 - 18 January, 1990. Phytomycolactica 22: 148.**

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37. Knipscheer, N.S., M.J. Wingfield, W.J. Swart and M. Laing. 1990. *Phaeoseptoria* leaf spot of *Eucalyptus* in South Africa. **28th Annual Congress of the South African Society for Plant Pathology, University of Pretoria, 16 - 18 January, 1990. Phytophylactica 22: 149.**
38. Marais, G.J., I.P. van der Westhuizen, M.J. Wingfield and J.L.F. Kock. 1990. Substrate utilization in species of *Ophiostoma* and *Ceratocystis*. **28th Annual Congress of the South African Society for Plant Pathology, University of Pretoria, 16 - 18 January, 1990. Phytophylactica 22: 150.**
39. Conradie, E., W.J. Swart and M.J. Wingfield. 1990. Screening *Eucalyptus* clones for resistance to *Cryphonectria*; **28th Annual Congress of the South African Society for Plant Pathology, University of Pretoria, 16 - 18 January, 1990. Phytophylactica 22: 153.**
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41. Mouton, M., M.J. Wingfield and P.S. van Wyk. 1990. Conidium development in the *Knoxdaviesia* anamorph of *Ceratocystiopsis proteae*. **28th Annual Congress of the South African Society for Plant Pathology, University of Pretoria, 16 - 18 January, 1990. Phytophylactica 22: 154.**
42. Wolfaardt, J.F., B.D. Wingfield and M.J. Wingfield. 1990. Analysis of ribosomal RNA sequences in *Ceratocystis*. **28th Annual Congress of the South African Society for Plant Pathology, University of Pretoria, 16 - 18 January, 1990. Phytophylactica 22: 154.**
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4.6 Popular Scientific Articles

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14. Schoeman, M.H., B.Q. Manicom and M.J. Wingfield. 1994. Epidemiology of powdery mildew on mango inflorescences. **S.A. Mango Growers' Association Yearbook**. Vol. 13.
15. Tree Pathology News. Newsletter of the Tree Pathology Cooperative Programme. Twenty one issues since 1990.
16. Disease diagnosis pamphlets 1995 onwards. Approximately 20 pamphlets produced in collaboration with team members of the Tree Pathology Co-operative Programme, describing diseases of forest trees. Sponsored by Mondi, Sappi, SAFCOL, CTC, DWAF and University of Pretoria. Available on FABI Web Page <http://up.ac.za/academic/fabi>.
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18. Member of the "preparation group" with M. Muller, J. Hantula, S. Green and R. Sturrock for the "Montesclaros Declaration" 2011 signed by more than 100 scientists to encourage an end to trade in ornamentals to save forests. See www.iufro.org.
19. Wingfield MJ, Wingfield BD, Crous CJ. 2020. Tree diseases can change entire landscapes and must be taken seriously . **The Conversation** <https://bit.ly/3b5ptAP>