

BRENDA D. WINGFIELD

CURRICULUM VITAE

**Department Genetics
University of Pretoria
Pretoria
0028
South Africa**

May 2018



PERSONAL DATA

Born 8th December 1958 Livingstone, Northern Rhodesia [Zambia], married to Michael J. Wingfield (Ph.D. Plant Pathology, Minnesota U.S.A.). Two children, Anthony (31yrs) and Beverley (28yrs).

EDUCATION

- 1986-1989 **University of Stellenbosch**, Stellenbosch.
Degree: Ph.D. December 1989 (Microbiology).
Promoter: Prof. I.S. Pretorius
Thesis: Molecular Characterisation of K2 killer and neutral wine yeasts.
- 1981-1984 **University of Minnesota**, St. Paul, Minnesota U.S.A.
Degree: M.S. March 1984 (Biochemistry, supporting program Statistics and Genetics).
Advisor: Prof. T. Guilfoyle
Thesis: Replication and Transcription of Cauliflower Mosaic Virus.
- 1979 **University of Cape Town**, Observatory, Cape Town.
Degree: B.Sc.(Med)Hons, December, 1979.
Advisor: Dr. G. Coetzer
Project: The effect of Ascorbic acid on Bovine Aorta cells.
- 1976-1978 **University of Natal**, Pietermaritzburg.
Degree: B.Sc., December 1978.
Majors: Biochemistry and Genetics.

EMPLOYMENT

- 1980 **Research Assistant**, Institute for Electron Microscopy, Medical Research Council, Tygerberg. Responsible for setting up a mammalian tissue culture laboratory. Duties also involved preparation, embedding, sectioning and viewing of TEM samples.
- 1981-1983 **Research Assistant**, University of Minnesota, St. Paul, Minnesota. As a graduate student in the department of Biochemistry worked for three quarters in different laboratories before commencing on my thesis work on the transcription and replication of Cauliflower Mosaic Virus.
- 1984-1985 **Research Officer**, Department of Biochemistry, University of Cape Town, Rondebosch, Cape Town. Responsibilities involved setting up and running a Recombinant DNA laboratory. I was also responsible for advising graduate students on the recombinant DNA aspects of their projects. Most of the research in the laboratory was associated with the histone genes, both cloning of these genes from the sea urchin *Parechinus angulosus* and studies on the mRNA of different stages of development.
- 1986-1988 **Researcher [Navorsers]**, Institute for Biotechnology, University of Stellenbosch, Stellenbosch. I was involved in setting up a recombinant DNA laboratory. Once this laboratory was functional I was able to start on my Ph.D. work on killer and neutral wine yeasts. At the same time I was involved in co-operative projects with other members and students of the Department of Microbiology.
- 1989-1990 **Lecturer/Researcher**, Department of Microbiology and Biochemistry.

	University of the Orange Free State, Bloemfontein. In 1989 I completed my Ph.D. work on killer yeasts and graduated at the end of that year.
1991-1996	Senior Lecturer , Department of Microbiology and Biochemistry, University of the Orange Free State, Bloemfontein.
1997-1998	Associate Professor , Department of Microbiology and Biochemistry, University of the Orange Free State, Bloemfontein. Set up a Molecular Taxonomy program in conjunction with other members of the department. The concentration of this thrust was using rRNA and rDNA sequence from a selected set of organisms in order to address questions of relevance to the different research groups in the department. The idea was to study the taxonomy and phylogeny of these organisms.
1998-present	Professor , Department of Genetics, University of Pretoria (UP).
1994-1998	Director of the Molecular Screening Co-operative Programme (MSCP)
1999-2003	Director of the Forest Molecular Biology Co-operative Programme (FMBC), UP
2004-2010	Programme Leader of the DST, NRF Centre of excellence in Tree Health Biotechnology, UP
2009- 2016	Deputy Dean , Faculty of Natural and Agricultural Science, UP.
2014-2015	Acting Dean , Faculty of Natural and Agricultural Science, UP
2016-present	Research Chair (DST-NRF SARCHI) in Fungal Genomics

TEACHING EXPERIENCE

University of Minnesota 1983.

Undergraduate Biochemistry Laboratory course

University of Cape Town 1984

Co-advisor for Honours student D. White

University of Stellenbosch

Recombinant DNA Technology course for Honours students
1986-1988.

Killer yeasts - 4th year Microbiology students 1987

Co-advisor for Honours student R. Brandt 1986

Co-advisor for Honours student E. van der Merwe 1987

Co-advisor for Honours student V. Southgate 1988

University of the Orange Free State

Honours techniques course and Molecular Biology Course 1989-1997

Third Year Molecular Biology Practical Course [MKB 334] 1990-1997

Third Year Molecular Biology Course (MKB 334) 1991-1997

Third Year Core Module Molecular Biology for Biochemistry (BOC334)
1995-1997

University of Pretoria 1998

GTS 215 (part of course) 2nd year - Molecular Genetics

GTS 225 (1998 and 1999)(2nd year - Microbial Genetics

Hons module Genetics students 1998-present

Hons course co-ordinator 1999 - 2000

GTS 215 (2000-2001) 2nd year - Molecular Genetics

GTS 251 (2002) 2nd year - Molecular Genetics

GTS 261 (2003-2009) 2nd year – Genetic Analysis and Manipulation

GTS 352 (2003- 2010) 3rd year – Genomes**Honours students**

A. Matthee 1989 (UOFS)
C.D. Viljoen 1990 (UOFS)
R.C. Strydom 1991 (UOFS)
W. de Lange 1992 (UOFS)
E.T. Steenkamp 1993 (UOFS)
H. Myburg 1993 (UOFS)
M.M.M. Pebane 1995 (UOFS)
M. Coetzee 1995 (UOFS)
S. van Zyl 1996 (UOFS)
E. Wessels 1996 (UOFS)
A. van der Merwe 1997 (UOFS)
A. Pretorius 1998 (UP)
R Bhoora 1999 (UP)
D. Rutkowska 1999 (UP)
W. van Rensburg 2000 (UP)
C. Aldous 2000 (UP)
A. Galleger 2001 (UP)
G. Ramoshodi 2001 (UP)
K. Muller 2002 (UP)
L. Killen 2002 (UP)
R. Nelson 2002 (UP)
M. Wessels 2002 (UP)
J. Grobbelaar 2003 (UP)
J. Darby 2003 (UP –4th year BSc)
S. van Niekerk 2004 (UP)
C.L.M. Wingfield 2004 (UP)
M. Logan 2005 (UP)
P.M. Wilken 2005 (UP)
K. Hutamo 2006 (UP)
Q. Santana 2006 (UP)
S. Martin 2007 (UP)
H. Badenhorst 2007 (UP)
O. Mlonyeni 2007 (UP)
K. van Zyl 2008 (UP)
J. Nagel 2008 (UP)
P. Pillay 2008 (UP)
K-A Pillay 2008 (UP)
M. Simpson 2009 (UP)
S. Bam 2010 (UP)
T. Hall 2010 (UP)
A. Fourie 2011(UP)
J. van Rensburg 2011(UP)
D. Roodt 2012 (UP)
A Wilson 2013 (UP)
C Trollip 2014 (UP)

C Wickham 2015 (UP)
 C Tatum 2015 (UP)
 C Jordaan 2016 (UP)
 N Soal 2017 (UP)
 J Lim 2017 (UP)
 F Lane 2017 (UP)
 S La 2018 (UP)

M.Sc. Students

Chris Viljoen (1991) (*converted to Ph.D. 1992*)
 Corli Strydom (1992) (*graduated 1994*)
 Wouter de Lange (1993) (*graduated 1996*)
 Wilhelm de Beer (1993) [co-advisor] (*graduated 2002*)
 Christa Visser (1993) (*graduated 1999*)
 Emma Steenkamp (1994) (*graduated 1996*)
 Cassi Myburg (1994) (*graduated 1997*)
 Zander Myburg (1994) [co-advisor] (*graduated 1997*)
 Maneshee Jugmohan (1994) [co-advisor] (*graduated 1997*)
 Martin Coetzee (1996) (*graduated 1998*)
 Janine van Niewholtz (1996) [co-advisor] (*graduated 1999*)
 Bernard Slippers (1996) [co-advisor] (*graduated 1999*)
 Albe van der Merwe (1998) (*graduated 2000*)
 Juanita de Wet (1998) [co-advisor] (*graduated 2000*)
 Marieka Venter (1998) [co-advisor] (*graduated 2000*)
 Riana Jacobs (1998) [co-advisor] (*graduated 2001*)
 Nonnie Geldenhuis (1999) [co-advisor] (*graduated 2005*)
 Jackie Doyle (1999) [co-advisor] (*graduated 2001*)
 Raksha Bhoora (2000) (*graduated 2003*)
 Gavin Hunter (2000) [co-advisor] (*graduated 2002*)
 Irene Barnes (neé Vincent) (2000) [co-advisor] (*graduated 2002*)
 Rodrigo Ahumada (2001) [co-advisor] (*graduated 2003*)
 Ronald Heath (2001) [co-advisor] (*graduated 2004*)
 Colleen Aldous (2000) [co-advisor] (*graduated 2005*)
 Brett Hurley (2001) [co-advisor] (*graduated 2006*)
 Almuth Hammerbacher(2002)[co-advisor] (*graduated 2006*)
 Lance Maphosa (2002) (*graduated 2005*)
 Marelize van Wyk (2002) [co-advisor] (*graduated 2004*)
 Joha Grobbelaar (2004) (*graduated 2009*)
 Happy Maleme (2005) [co-advisor] (*graduated 2009*)
 Marija Kvas (2005) [co-advisor] (*graduated 2010*)
 Markus Wilken (2006) (*graduated 2009*)
 Natalie van Zuydam (2006) (*graduated 2009*)
 Vuledzani Muthelo (2006) [co-advisor] (*graduated 2009*)
 Quentin Santana (2007) [co-advisor] (*converted to Ph.D. 2008*)
 Simon Martin (2008) (*graduated 2011*)
 Osmond Mlonyeni (2008) [co-advisor] (*graduated 2011*)
 Liza-Daniel de Wet (2008) [co-advisor] (*graduated 2011*)
 Darryl Herron (2009) [co-advisor] (*graduated 2013*)
 Melissa Simpson (2010) (*graduated 2012*)

Mmashepho Phasha (2010) [co-advisor] (*graduated 2012*)
 Tondani Kone (2010) [co-advisor] (*graduated 2014*)
 Tracy Hall (2011) (*graduated 2014*)
 Phia van Coller (2011) [co-advisor] (*graduated 2013*)
 Mkhululi Maphosa (2012) (*graduated 2014*)
 Arista Fourie (2012) [co-advisor] (*graduated 2014*)
 Danielle Roodt (2013) (*graduated 2015*)
 Simone Fouche (2013) [co-advisor] (*graduated 2016*)
 Stephanie van Wyk (2013) [co-advisor] (*graduated 2016*)
 Andi Wilson (2014) (*graduated 2016*)
 Conrad Trollip (2015) (*graduated 2017*)
 Liezl Potgieter (2015) [co-advisor] (*graduated 2017*)
 Benny Swalarsk-Parry (2015) [co-advisor] (*graduated 2017*)
 Catherine Tathum (2016) (currently enrolled)
 Wilma Nel (2016) [co-advisor] (*graduated 2018*)
 Johnathan Bredenkamp (2016) [co-advisor] (currently enrolled)
 Dineo Mailula (2017) [co-advisor] (currently enrolled)
 Zorada Swart (2018)[co-advisor] (currently enrolled)
 Nicole Soal (2018) (currently enrolled)
 Frances Lane (2018) (currently enrolled)
 Claudette Dewing (2018) [co-advisor] (currently enrolled)

Ph.D. Students

Adriaan Smit (1991) [co-advisor] (*graduated 1995*)
 Karl-Hienz Riedel (1991) [co-advisor] (*graduated 1997*)
 Chris Viljoen (1993) (*graduated 1997*)
 Corli Witthuhn (née Strydom) (1995) (*graduated 1999*)
 Len van Zyl (1995) [co-advisor] (*graduated 1999*)
 Conrad Shoch (1996) [co-advisor] (*graduated 2000*)
 Karin van der Westhuizen(née Jacobs)(1996)[co-advisor](*graduated2000*)
 Emma Steenkamp (1996) (*graduated 2001*)
 Percy. Chimwamurombe (1997) (*graduated 2001*)
 Henriette Britz (1997) [co-advisor] (*graduated 2002*)
 Esme van Jaarsveld (2000) [co-advisor] (*graduated 2002*)
 Nitsane Moleleki (1998) (*graduated 2002*)
 Cassi Myburg (1997) (*graduated 2003*)
 Martin Coetzee (1998) (*graduated 2004*)
 Bernard Slippers (1999) [co-advisor] (*graduated 2003*)
 Eddie Venter (1999) [co-advisor] (*graduated 2004*)
 Bongani Maseko (1999) [co-advisor] (*graduated 2010*)
 Albe van der Merwe (2000) (*graduated 2012*)
 Mesfin Bogale (2000) (*graduated 2006*)
 Alemu Gezahgne (2000) [co-advisor] (*graduated 2003*)
 Juanita de Wet (2000) [co-advisor] (*graduated 2008*)
 Schalk van Heerden (2000) [co-advisor] (*graduated 2004*)
 XuDong Zhou (2000) [co-advisor] (*graduated 2003*)
 Marinda Visser (2000) [co-advisor] (*graduated 2004*)
 Marieka Gyzenhout [née Venter] (2001) [co-advisor] (*graduated 2006*)

Mauricio Montoya Marin (2001) [co-advisor] (*graduated 2004*)
 Sabine Lezar (2001) (*graduated 2005*)
 Gavin Hunter (2002) [co-advisor] (*graduated 2007*)
 Irene Barnes [néé Vincent] (2002) (*graduated 2009*)
 Maria-Noel Cortinas (2002) (*graduated 2011*)
 Riana Jacobs (2002) [co-advisor] (*graduated 2010*)
 Lieschen de Vos (née Bahlmann) (2002) (*graduated 2012*)
 Grace Nakabonge (2003) [co-advisor] (*graduated 2006*)
 Marelize van Wyk (2004) (*graduated 2013*)
 Ronald Heath (2004) [co-advisor] (*graduated 2009*)
 Lorenzo Lombard (2004) [co-advisor] (*graduated 2010*)
 Magriet van der Nest (2004) (*graduated 2010*)
 Ali Aladawi (2005) [co-advisor] (*graduated 2011*)
 Kershney. Naidoo (2006) (*graduated 2013*)
 Alvaro Duran (2007) [co-advisor] (*graduated 2010*)
 Guillermo Perez (2007) [co-advisor] (*graduated 2010*)
 Wubeu Bihon Legesse (2007) (*graduated 2010*)
 Matsepo Taole (2007) (*graduated 2013*)
 Michael Mbenoun (2010)[co-advisor](*graduated2014*)
 Tuan Duong (2008) [co-advisor] (*graduated 2013*)
 Quentin Santana (2009) [co-advisor] (currently enrolled)
 Markus Wilken (2009) (*graduated 2016*)
 Gerda Fourie (2009) [co-advisor] (*graduated 2016*)
 Melissa Simpson (2012) (*graduated 2018*)
 Mmatshapho Phasha (2012) [co-advisor] (currently enrolled)
 Osmond Mlonyeni (2012) [co-advisor] (*graduated 2018*)
 Donghyeon Lee (2012) [co-advisor] (*graduated 2016*)
 Aquillah Kanzi (2013) [co-advisor] (*graduated 2017*)
 Darryl Herron (2013) [co-advisor] (currently enrolled)
 Tayo Adenigba (2013) [co-advisor] (currently enrolled)
 Mohammad Sayari (2014) (currently enrolled)
 Mkhululi Maphosa (2014) (currently enrolled)
 Arista Fourie (2014) [co-advisor] (currently enrolled)
 Stephanie van Wyk (2015) [co-advisor] (currently enrolled)
 Andi Wilson (2016) (currently enrolled)
 Benny Swalarsk-Parry (2017) [co-advisor] (currently enrolled)
 Jane Ramaswe (2018) (currently enrolled)

Post Doctoral Students and Research Fellows

Oliver Preisig [1994-1996]
 Treena Burgess [1999 -2000]
 Thierry Regnier [2000 -2001]
 Nitsane. Moleleki [2002 - 2004]
 Karin Jacobs [2002 - 2004]
 Lawrie Wright [2004 - 2006]
 Martin. Coetzee [2004 - 2005]
 Wieland Maier [2004 - 2007]
 Jane Wright [2005 - 2007]

Marieka Gryzenhout [2006- 2008]
 Mesfin Bogale [2006 - 2008]
 Lu Min [2008-2009]
 Eunsong Oh [2009 - 2010]
 Irene Barnes [2009 - 2010]
 Wubetu Bihon [2010 - 2013]
 Pedro Romon [2010 - 2013]
 Lieschen de Vos [2012 - present]
 Stephanie Slinski [2012 - 2014]
 Magriet van der Nest [2013 - present]
 Tuan Duong [2013-2017]
 Almuth Hammerbacher [2015-2017]
 Alistair McTaggart [2015-2017]
 Markus Wilken [2016-present]
 Gerda Fourie [2016-2018]
 Donghyeon Lee [2016-2017]
 Awelani Mutshembele [2016-2017]
 Aquillah Kanzi [2017-present]
 Vuyiswa Bushula [2017-present]

MEMBERSHIPS OF SCIENTIFIC SOCIETIES and COMMITTEES

South African Society for Microbiology (Council member 1990-1992)(member 1988-present)
 South African Society for Molecular Biology and Biochemistry (Task group member Free State Representative 1995, Council member 1997-2000)
 Southern African Society for Plant Pathology (1997 - present)
 South African Experimental Biology Group (Committee member 1987)
 SAWISE, representative for Free State region (1995). Also representation on the National Science and Technology Forum (NSTF) (1995)
 Third World Organisation for Women in Science (TWOWS)
 Mycological Society of America
 Society for Molecular Biology and Evolution
 American Society of Fungal Genetics
 South African Society of Plant Pathology
 Member of the Advisory Committee for regulation of Genetically Modified Organisms (South Africa) 2000 to 2004
 Member of the adjudication board for the NSTF awards, 1998 and 1999
 Member of the NSTF EXCO 2001 – present
 Chairperson of the NSTF (2007 - 2014)
 Member of SETAG and SETAG EXCO 2004-present
 Member of the Academy of Science of South Africa (ASSAf) 2000 – present
 Member of Academy of Science of South Africa (ASSAf) council 2013 – present
 Vice-President of Academy of Science of South Africa (ASSAf) 2015- present [2nd term]
 Member of Expert committee for Biotechnology Strategy (2001) for South Africa
 Member of the Board of Trustees of PlantBio (2004 – 2008)
 Vice Chairman Board of Trustees of PlantBio (2007 – 2008)
 Member of the Royal Society of South Africa (2007 - present)
 Fellow of the Royal Society of South Africa (2008 - present)
 Fellow of the Third World Academy of Science (TWAS) (2009 - present)

Member of the American Society of Plant Pathology 2013 - present
 Member of the International Society of Plant Pathology [ISPP] Executive for 2013-2018
 [portfolio - Secretary General]
 INRA Scientific Advisory Board, SMaCH (2014 – 2015)
 Panel meeting for European Research Commission (ERC) LS9, Brussels 2016
 Panel member on the Norwegian Centres of Excellence committee 2016
 Panel meeting for European Research Commission (ERC) LS9, Brussels 2018

AWARDS

University of Pretoria Exceptional Achievers Award 2007, 2004, 2001
 University of Pretoria Chancellors Award for Research 2012
 Winner Dept. Water Affairs & Forestry Women in Water, Sanitation & Forestry Research Award 2007
 Finalist Department of Science & Technology Distinguished Women in Science Award 2007
 Winner Department of Science & Technology Distinguished Women in Science Award 2008
 Winner African Union Regional Awards for Women in Science (Southern Region) 2009
 NRF Y rating 1990, NRF C rating 1994, NRF B2 rating 1998, NRF B3 rating 2004, NRF B2 rating 2009, NRF A2 rating 2014
 Winner 2014 NSTF BHP Billiton Award for researchers for an outstanding contribution to SET through research capacity development over the last 5 to 10 years
 Person medal, Southern African Society of Plant Pathology (SASPP) 2015 (first female recipient)
 Recipient of the Harry Oppenheimer Memorial Fellowship Award 2015
 Awarded DST/NRF SARCHI research chair in Fungal Genomics 2016
 American Phytopathological Society Fellow Award 2017
 Honorary Member of Mycological Society of America 2017 (highest honour for an international mycologist)
 South African Society of Microbiology Gold Medal 2018 (first female recipient)

INVITED LECTURES

South African Experimental Biology Group. Second Meeting, Tygerberg (1984).
 "Cauliflower Mosaic Virus".
 Department of Microbiology, University of Cape Town. (1984). "Cauliflower Mosaic Virus".
 Department of Microbiology, University of Cape Town. (1987).
 "Killer yeasts".
 Department of Microbiology, University of the Orange Free State, (1988). "Killer Yeasts".
 Department of Biology, University of New York, Buffalo New York, U.S.A. (1989). "Killer Yeasts".
 Keynote address at the 30th Annual Congress of the South African Society of Plant Pathology (1992). "Future Prospects for the molecular characterisation of Plant Pathogenic fungi".
 Department of Plant Pathology, University of Viscosa, Viscosa, Brazil. (1993). "Molecular Characterisation of Plant Pathogens".
 Department of Molecular Biology, University of Brasilia, Brasilia, Brazil. (1993).
 "Molecular Characterisation of Plant Pathogens"
 Department of Plant Pathology, Iowa State University, Ames, Iowa, U.S.A. (1994).
 "Molecular taxonomy of selected tree pathogens".
 South African Society for Plant Pathology, OFS regional meeting (1994). "A PCR based identification method for species of *Armillaria*".
 University of Zimbabwe, Harare, Zimbabwe (1995). "A PCR based identification method for

- species of *Armillaria*.”
- Forestry Research Institute (FRIM), Kuala Lumpur, Malaysia, (1995). “A PCR based identification method for species of *Armillaria*.”
- University of Hong Kong, Hong Kong (1995). “A PCR based identification method for species of *Armillaria*.”
- Department of Microbiology, University of Durban Westville (1995). “A simple method of Mitochondrial DNA RFLPs, exemplified by studies on *Heterobasidion annosum*.”
- University of Zimbabwe, Harare, Zimbabwe (1998). “Molecules and Mycology: Identifying African *Armillarias*.”
- University of Medunsa, Speaker at the Woman’s day forum 1999.
- Australian Plant Pathology Society regional meeting, Canberra, ACT, Australia. (2000) “Another kind of tree - research on *Armillaria mellea* in South Africa”.
- Invited session chair. Asian Mycological Congress, Kungming, October 2002.
- International congress of Plant Pathology, Christchurch, New Zealand (2003) “Understanding the threat of Pitch Canker to exotic plantation forestry in the Southern Hemisphere”.
- American Phytopathological Society annual meeting, (APS),(2004) invited speaker “Phylogeographic studies on tree pathogens reveal differing patterns of speciation and host pathogen co-evolution” California, USA.
- Asian Mycological Congress, Invited speaker. “Generic boundaries of Plant Pathogens confuse Plant Pathologists”, Chang Mai, Thailand November 2004.
- Mycological Society of America (2005) An overview of African *Armillaria* species. Mycological Society of America Meeting. Hilo, Hawaii USA.
- International Mycological Congress (2006) Invited Speaker and Symposium Chair. *Cryphonectria* canker of *Eucalyptus*: a little-known disease caused by an assemblage of fungi of extreme quarantine relevance. Cairns, Australia.
- International Symposium "Ophiostomatoid fungi. Expanding Frontiers" 2006 Invited speaker “Emerging evidence for discrete generic boundaries.” Moreton Bay Research Station, North Stradbroke Island, Brisbane, Australia
- Keynote address at the Bio08 meeting in Grahamstown 2008 “DNA sequence data have radically altered Plant Pathogen identification and they will continue to do so”
- Workshop SASPP 2013
- Invited Speaker and Symposium organiser IMC 10 2014 “Using Population Genetics to understand the biology of an apparently asexual and important pine pathogen”
- Guest speaker April graduation 2015 University of the Witwatersrand
- Duke University Mycology Research Unit, Duke University 2016 "Unisexual reproduction in *Huntia moniliformis*"
- Department of Plant Pathology and Applied Microbiology, Penn State 2016 "Unisexual reproduction in *Huntia moniliformis*"
- Co-chair of session “Mating and Clonality in Fungi”, Fungal Genetics meeting Asilomar 2017
- Leading Women in Fungal Biology symposium in August 2017 held by the Westerdijk Institute in Utrecht, Holland: chaired the one session on Fungal Biodiversity and opened the session on Fungal Genomes with a talk titled “Mating Matters in Fungi”.
- Keynote Address: Genes to Genomes and Back again. SASM 2018

OVERSEAS RESEARCH VISITS

- U.S.D.A. Peoria Illinois 1989
 University of New York, Buffalo, 1989
 Rutgers University, New Jersey, 1989

NIH, New Brunswick, 1989
 University of California, Berkeley, 1992
 University of Iowa, Ames, 1992
 University of Minnesota, 1992
 Duke University, Durham, 1992
 NC State University, Raleigh, 1992
 Viscosa University, Viscosa, Brazil, 1993
 University of Brasilia, Brasilia, Brazil, 1993
 Iowa State University, Ames, Iowa, U.S.A. 1994 (Sabbatical. Dec. 1993- Aug. 1994
 in the laboratories of T.C. Harrington Iowa State University Ames, Iowa, U.S.A.)
 University of British Columbia, Vancouver, BC Canada, 1994
 University of Zimbabwe, Harare, 1995
 Forestry Research Institute, Kuala Lumpur, Malaysia, 1995
 University of Hong Kong, Hong Kong, 1995
 Joint APS/MSA meeting Indianapolis, Indiana 1996
 Iowa State University, Ames, Iowa, U.S.A. 1996
 NC State University, Raleigh, 1996
 Iowa State University, Ames, Iowa, U.S.A. 1997
 University of Zimbabwe, Harare, 1998
 ICPP Edinburgh UK, 1998
 Eucalyptus Genetics meeting, Hobart, Australia 1999
 CSIRO, Canberra, Australia 1999
 Forest Biotechnology meeting, Oxford, UK 1999
 Tropical Mycology Meeting, Liverpool, 2000
 CSIRO, Canberra, Australia 2000 (Sabbatical June – Dec 2000 in the Plant Industry
 group at CSIRO with Dr. Jeremy Burdon)
 Joint MSA/SON/APS meeting Utah, USA, August 2001
 IUFRO Tree Biotechnology Meeting, Washington State, USA, July 2001
 Mycological Society of America, annual meeting, Salt Lake City, Utah, 2001
 International Mycological Congress, Oslo, Norway 2002
 Asian Mycological Meeting, Kungming, China 2002
 IUFRO Tree Biotechnology meeting Umëa, Sweden 2003
 International congress of Plant Pathology, Christchurch, New Zealand 2003
 CSIRO, Canberra, Australia 2004
 CBS centennial, Netherlands 2004
 APS meeting California, USA 2004
 Asian Mycology Meeting, Chang Mai, Thailand 2004
 Mycological Society of America Meeting, Hawaii 2005
 Murdoch University, Perth Australia (Research leave June– August 2006)
 International Mycology Congress Cairns 2006
 International Symposium "Ophiostomatoid fungi. Expanding Frontiers" Moreton
 Bay Research Station, North Stradbroke Island, Brisbane, Australia 2006
 CBS, Netherlands 2007
 IUFRO Forest Biosecurity Conference in Rotorua April 2009
 University of California, Davis, USA Sabbatical with Dr Tom Gordon July-Dec 2009
 IMC Edinburgh 2010
 Asimolar, California, USA – Fungal Genetics Meeting 2011
 University of British Colombia 2012
 Asimolar, California, USA – Fungal Genetics Meeting 2013

ICPP, Beijing, China 2013
 IMC, Bangkok, Thailand 2014
 Asimolar, California, USA – Fungal Genetics Meeting 2015
 Australasian Plant Pathology Society Meeting, Freemantle Australia 2015
 Panel meeting for European Research Commission (ERC) LS9, Brussels 2016
 Norwegian Centres of Excellence committee 2016
 Asimolar, California, USA – Fungal Genetics Meeting 2017
 Pennsylvania State University, State College, USA Sabbatical with Dr David Geiser
 March-August 2017
 Panel meeting for European Research Commission (ERC) LS9, Brussels 2018

EDITORIAL AND EXTERNAL EXAMINATION RESPONSIBILITIES

Assistant editor for the SASM Newsletter 1990-1992
 Editor for the SASM Newsletter 1997
 Review manuscripts and grants for Applied and Environmental Microbiology,
 Australasian Plant Pathology, FEMS Microbiology Letters, Fungal Genetics, Journal
 of Phytopathology, New Phytologist, Molecular Ecology, Molecular Ecology Notes,
 Molecular Plant Pathology, Mycological Progress, Mycological Research, Mycologia,
 Plant Pathology, Mycological Progress, South African Journal of Botany, Genome
 Canada and Virus Research.
 Appointed to the Editorial Board of Fungal Biology (Journal of the British
 Mycological Society previously Mycological Research) 2005 – present
 External Examiner for theses from University of Stellenbosch, University of KwaZulu
 Natal, University of the Free State, Hong Kong University, Melbourne University,
 University of Sydney, University of Namibia
 University of Namibia, (2012- 2015) external examiner for Bachelor degree
 NMMU – Reviewer for Department of Microbiology and Biochemistry
 Appointed to the Editorial Board Current Genetics - 2014 – present.

PUBLICATIONS

1. VAN VUUREN, H.J.J. AND B.D. WINGFIELD (1986). Killer Yeasts - The Cause of Stuck Fermentations in a Wine Cellar. *South African Journal of Enology and Viticulture* **7**, 113-118.
2. JANSE, B.J.H., B.D. WINGFIELD, I.S. PRETORIUS AND H.J.J. VAN VUUREN (1987). Plasmids in *Leuconostoc oenos*. *Plasmid* **17**, 173-175.
3. NEL, L., B.D. WINGFIELD AND H.J.J. VAN VUUREN (1987). Isolation and characterisation of *Leuconostoc oenos* bacteriophages from wine and sugar cane. *FEMS Microbiological letters* **44**, 63-67.
4. WINGFIELD, M.J., P.S. VAN WYK, AND B.D. WINGFIELD (1987). Reclassification of *Phialocephala* based on conidial development. *Transactions of the British Mycological Society* **89**, 509-520.
5. WINGFIELD, B.D., H.J.J. VAN VUUREN, AND I.S. PRETORIUS (1989). Size

- differentiation of M₂ genomes among K₂ killer yeasts. *Mycological Research* **92**, 364-367.
6. WINGFIELD, B.D., V.J. SOUTHGATE, I.S. PRETORIUS AND H.J.J. VAN VUUREN (1989). A K₂ neutral *Saccharomyces cerevisiae* strain contains a variant K₂ M genome. *Yeast* **6**, 159-169.
 7. WINGFIELD, B.D., L.J. VAN DER MEER, I.S. PRETORIUS AND H.J.J. VAN VUUREN (1990). K₃ killer yeast is a mutant K₂ killer yeast. *Mycological Research* **94**, 901-906.
 8. WINGFIELD, B.D. (1990). Killer yeasts in wine fermentations. *Acta Varia* **5**, 69-75.
 9. RIEDEL, K-H., B.D. WINGFIELD AND T.J. BRITZ (1992). Combined influence of Magnesium concentration and polymerase chain reaction specificity enhancers. *FEMS Microbiology Letters* **92**, 69-72.
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BIOGRAPHICAL SKETCH

Brenda Diana Wingfield nee Fairbairn was born in Livingstone, Northern Rhodesia [Zambia] on the 8th December, 1958 and lived there for seven years before her family moved to Hartley [Chegutu] in Rhodesia [Zimbabwe]. She attended Hartley Junior School and her secondary education was obtained from Jameson High School, Gatooma [Kadoma] where she completed her GCE 'O' level examinations in 1974 with distinctions in Mathematics, Chemistry, Physics and Biology. This was followed by GCE 'M' level in 1975 with a distinction in Biology.

Brenda entered the University of Natal (Pietermaritzburg) in 1976 and obtained a B.Sc. degree in Biochemistry and Genetics in 1978. In 1979 she completed a B.Sc. Med.(Hons) degree at the University of Cape Town Medical School in Medical Biochemistry. In 1980 she filled the position of Technical Officer for the Medical Research Council's Institute for Electron Microscopy. Thereafter, she enrolled for an M.Sc. degree in Biochemistry at the University of Minnesota in 1981 and completed this degree in 1984. Her thesis in partial fulfilment of the degree was entitled "Replication and transcription in cauliflower mosaic virus".

On returning to South Africa in 1984 she accepted a post as research officer in the Department of Biochemistry at the University of Cape Town. In this position, her primary objective was to establish a laboratory to study the molecular biology of histone proteins in sea urchins. In 1986 she moved to the University of Stellenbosch in the position of Research Officer and commenced research on wine killer yeasts. This study was completed at the end of 1988 when she moved to a position as lecturer/researcher in the Department of Microbiology and Biochemistry at the University of the Orange Free State, Bloemfontein. She was awarded her Ph.D. in 1989 by the University of Stellenbosch for her work on the "Molecular characterisation of K₂ killer and neutral wine yeasts".

During the ten years that she worked at the University of the Orange Free State Brenda developed a research programme focusing on the molecular taxonomy of fungi causing disease on forest plantation trees and the Forest Molecular Biology Co-operative Programme, which she directed. In 1998 Brenda and her husband Mike moved their combined programmes to the University of Pretoria. Brenda holds a Research Chair in Fungal Genomics and is a Professor in the Dept. Genetics at the University of Pretoria. She served as Acting and Deputy Dean of the Faculty of Natural and Agricultural Science from 2009-2016. She is the past chairman of the National Science and Technology Forum, vice president of the Academy of Science of South Africa and the Secretary General of the International Society of Plant Pathology.

Brenda is married to Michael Wingfield, President of IUFRO and Mondi Professor of Forest Pathology at the University of Pretoria. They have two children, Anthony (31 years) and Beverley (28 years).