

UNIVERSITY OF PRETORIA

FORMAT OF CURRICULUM VITAE

The University prefers the following CV format. Specific items can be added to or omitted to reflect Faculty specific and/or individual circumstances, but the given numbering should, as far as possible, be followed to facilitate the evaluation process.

Provision of information about race and gender is optional, but will assist the University to report in terms of current Employment Equity legislation.

1. BIOGRAPHICAL SKETCH

1.1 GENERAL INFORMATION									
Surname	Coutinho								
First names	Teresa Ann				ID Number		6107300005086		
Citizenship	South African				Title	Prof	Female	X	Male
Place of birth	Welkom, South Africa				Date of birth		30 July 1961		
Population group	African		Coloured		Indian		White	X	Other <i>(Please specify)</i>
Department	Microbiology & Plant Pathology				Position		Professor		
Direct Telephone	012-4203934				Direct Telefax		012-4203960		
E-mail	teresa.coutinho@up.ac.za								
Date of appointment	01-04-1998				Permanent full-time		X	Temporary full-time	

1.2 ACADEMIC QUALIFICATIONS OBTAINED				
Degree/ Diploma	Field of study	Higher education institution	Year	Distinctions
PhD	Plant pathology	University of Natal	1991	
MSc	Plant pathology	University of Natal	1988	
BSc hons	Plant pathology	University of Natal	1985	
BSc	Plant pathology Botany	University of Natal	1984	

1.3 WORK EXPERIENCE TO DATE

Name of employer	Capacity and/or type of work	Period From (mm//yy to mm//yy)
University of Natal	Post-doctoral research	01/91 to 11/91
National Research Foundation	Liaison officer/coordinator	12/91 to 12/93
University of the Free State	Post-doctoral research Lecturer in Microbiology	01/94 to 12/94 01/95 to 03/98
University of Pretoria	Senior Lecturer Associate Professor Professor	04/98 to 12/00 01/01 to 12/03 01/04 to date

2. TEACHING ACTIVITIES

2.1 Courses presented

Course	Level (e.g. second year, Masters)	Self developed (Yes or No)
Parasitology and epidemiology (PLG412) 1998-2001	Third year	Yes, based on prescribed text book
Phytobacteriology (PLG321) 1998-2001	Third year	Yes, based on prescribed text book
Growth, diversity and control of bacteria, practicals (MBY 251) 2002 to date	Second year	Yes
Current concepts in plant pathology 2003	Honours	Yes
Environmental microbiology 2004 to 2013 (MBY 352)	Third year	Yes, based on prescribed text book
Principles of Plant Pathology (MBY 262) 2012-2014	Second year	Yes
Growth, diversity and control of fungi, 8 lectures (MBY 261) 2015	Second year	Yes, based on prescribed text book
Microbial systematics (MBY 753) 2000 to 2011	Honours	Yes together with Prof SN Venter
Applied biotechnology (MBY 752) 2008 to 2010	Honours	No
Fundamentals in plant pathology (PLG262) 2010 to 2014	Second year	Yes, based on prescribed text book
Seminar course (MCP752) 2012 to date	Honours	For specific seminar
Growth, diversity and control of fungi (MBY 261) (2015 to date)	Second year	Yes, based on prescribed text book

2.2 Other education and pedagogic courses presented

Course	Year	Institution
Phytobacteriology (3 rd year course)	1988-1991	UKZN
Fungal taxonomy (3 rd year course)	1994	UFS
Basic microbiology (1 st year course)	1995-3/1998	UFS
Advanced concepts in mycology (honours course)	1995-3/1998	UFS

3. TEACHING OUTPUTS

3.1 Educational publications and products

Provide full details including full titles, names of all the authors, publishers, dates, page numbers etc. Specify your exact contribution to the publications or products. Note that the publications here should be of a didactic nature e.g. articles in educational publications, papers presented at educational conferences, etc. A summary and description of educational products developed can be provided (e.g. study guides, learning materials, multimedia productions (CDs), educational videos, web materials, text books etc.) relevant to university education.

n/a

4. OTHER TEACHING CONTRIBUTIONS

4.1 Membership of national and international bodies

List all the teaching associations or societies to which you belong. Name your involvement, e.g. honorary member, founder member, full member, chairman, president, secretary.

n/a

4.2 Visits to local and overseas universities as guest professor or lecturer in regard to teaching

Provide details

n/a

4.3 Participation in national and international teaching associations, bodies, committees

List all memberships of associations and bodies, as well as teaching committees (e.g. curriculum and assessment committees, teaching review committees, etc) in which you participate. Name the type and extent of participation.

n/a

5. POSTGRADUATE SUPERVISION

5.1 Supervision or co-supervision of students who have completed degrees

Name of student	Degree ¹ /Title of dissertation/ thesis and date completed	Supervisor	Co-supervisor(s)	Duration of studies (years)
H Smith	PhD/A comparison of the biology and taxonomy of <i>Botryosphaeria dothidea</i> and <i>Sphaeropsis sapinea</i> in South Africa/2001	MJ Wingfield	TA Coutinho	5
LM van Zyl	PhD/Coniothyrium canker of	MJ Wingfield	TA Coutinho	4

¹ Indicate whether Honours, Masters research, Masters coursework with dissertation or Doctorate

	<i>Eucalyptus</i> in South Africa/1999			
ET Steenkamp	PhD/A molecular study of mating type genes in <i>Fusarium subglutinans</i> fsp <i>pini</i> /2000	BD Wingfield	MJ Wingfield TA Coutinho	4
H Britz	PhD/Taxonomy and population genetics of <i>Fusarium subglutinans sensu lato</i> on pine and mango/2001	MJ Wingfield	TA Coutinho BD Wingfield	5
Y Pakela	PhD/Studies on the <i>Colletotrichum</i> spp. infecting cowpea/2003	TAS Aveling	TA Coutinho	6
B Slippers	PhD/Taxonomic and phylogenetic study on <i>Botryosphaeria</i> spp. of woody hosts/2003	MJ Wingfield	TA Coutinho BD Wingfield	5
BOZ Maseko	PhD/ <i>Phytophthora</i> spp. associated with cold tolerant eucalypts in South Africa/2010	TA Coutinho	MJ Wingfield	10 (part time)
T Goszczyńska	PhD/ <i>Pantoea ananatis</i> and <i>P. agglomerans</i> associated with diseases of onion/2007	TA Coutinho	SN Venter	4
CL Brady	PhD/Taxonomy of <i>Pantoea</i> /2008	SN Venter	TA Coutinho	3
D Pavlic	PhD/Botryosphaeriaceae associated with <i>Eucalyptus</i> and <i>Syzygium</i> spp./2009	B Slippers	MJ Wingfield TA Coutinho	4
A Jacobs	Taxonomy of species within the <i>Gibberella fujikuroi</i> complex/2011	TA Coutinho	MJ Wingfield MFO Marasas BD Wingfield	9 (part time)
P de Maayer	PhD/ Comparative genomics to identify pathogenicity factors of a plant associated <i>Pantoea ananatis</i> strain/2011	TA Coutinho	SN Venter P Birch	5
E Ngadze	Studies on soft rot pathogens of potato in Zimbabwe/2012	J van der Waals	TA Coutinho	6 (part time)
G Mitchell	PhD/ Reducing the risk of the pitch canker fungus (<i>Fusarium circinatum</i>) to <i>Pinus patula</i> in South Africa/2012	TA Coutinho	MJ Wingfield ET Steenkamp	6 (part time)
D Shyntum	PhD/Functional characterization of the T6SS in <i>Pantoea ananatis</i> / 2014	TA Coutinho	SN Venter I Toth L Moleleki	6
T Weller-Stuart	PhD/Functional genomics of motility as a virulence factor in <i>P. ananatis</i> /2015	TA Coutinho	P de Maayer I Toth	3
S Sibanda	PhD/ Gene regulation in quorum sensing /2017	TA Coutinho	L Moleleki D Shyntum	4
J Zimudze	PhD/ Bacterial diseases of potato in Zimbabwe/2017	J van der Waals	TA Coutinho	4
BOZ Maseko	MSc/Studies on the Oomycetes of citrus and eucalypts/1999	TA Coutinho	MJ Wingfield F Wolfaardt	4
MPA Coetzee	MSc/ <i>Armillaria</i> spp. in South Africa/1997	BD Wingfield	MJ Wingfield TA Coutinho	2
M Venter	MSc/Taxonomy and phylogeny of <i>Endothia</i> spp./2000	MJ Wingfield	TA Coutinho	3
J de Wet	MSc/Taxonomy of <i>Sphaeropsis sapinea</i> and possible biocontrol with ds RNA mycoviruses/1999	MJ Wingfield	TA Coutinho BD Wingfield	2
G Hunter	MSc/ <i>Mycosphaerella</i> spp associated with <i>Eucalyptus</i> in South Africa/2002	MJ Wingfield	TA Coutinho BD Wingfield	3
G Nakabonge	MSc/Forestry diseases in Uganda/2002	J Roux	TA Coutinho MJ Wingfield	2
B Hurley	MSc/Fungal gnats and their possible vectoring of <i>Fusarium circinatum</i> /2006	MJ Wingfield	TA Coutinho P Govender	5
C Rodas	MSc/Fungal diseases of Eucalyptus and other Myrtaceae in Colombia/2003	MJ Wingfield	B Slippers TA Coutinho	3
D Pavlic	MSc/ <i>Botryosphaeria</i> spp. as endophytes in eucalypts/2005	TA Coutinho	MJ Wingfield	4
L Lombard	MSc/Diseases of <i>Eucalyptus</i>	TA Coutinho	MJ Wingfield	3

	cuttings in nurseries and at establishment in South Africa/2004			
A Hammerbacher	MSc/The epidemiology of <i>Fusarium circinatum</i> in nurseries and at establishment in South Africa/2005	TA Coutinho	MJ Wingfield BD Wingfield	3
J Fouche	MSc/Bacterial wilt of eucalypts/2004	D Berger	TA Coutinho	3
C Brady	MSc/Taxonomic study on <i>Pantoea</i> associated with bacterial blight of eucalypts/2005	SN Venter	TA Coutinho	2
N Makhado	MSc/Epi- and endophytes belonging to the Enterobacteriaceae associated with eucalypts/2005	TA Coutinho	SN Venter	3
I Greyling	MSc/ <i>Pantoea</i> spp. associated with Coniothyrium canker/2007	TA Coutinho	SN Venter MJ Wingfield	5
H van der Merwe	MSc/Studies on soft rot of potatoes/2009	J van der Waals	TA Coutinho L Korsten	3
L van der Westhuizen	MSc/ <i>Pantoea</i> and <i>Xanthomonas</i> spp. associated with bacterial blight of eucalypts/2010	TA Coutinho	SN Venter	4
B Porter	MSc/ Development of a screening system for <i>Fusarium circinatum</i> /2010	TA Coutinho	MJ Wingfield	6
T Weller	MSc/ Recognition and Attachment of Epiphytic Populations of <i>Pantoea ananatis</i> on <i>Eucalyptus</i> leaves/2010	J Theron	TA Coutinho	2
A Botha	MSc/ Enterobacteriaceae endophytes in healthy <i>Eucalyptus</i> leaves /2012	SN Venter	TA Coutinho	5
G Carstensen	MSc/ The identity of nodule-forming bacteria in <i>Pavetta</i> spp./ 2012	TA Coutinho	SN Venter	2
A Chan	MSc/Restruction of the metabolic pathogens in the genome of <i>Pantoea ananatis</i> /2012	SN Venter	TA Coutinho	2
K Nxumalo	MSc/Studies on Fusarium wilt of potato/2013	J vd Waals	TA Coutinho	7 part time
V Moloto	MSc/ Characterization of Agrobacterium spp. in South Africa /2012	TA Coutinho	T Goszczynska	4 part time
L Mashashva	MSc/ Characterization of virulence factors in <i>Pectobacterium carovorum</i> ssp. <i>brasiliense</i> /2013	L Moleleki	TA Coutinho	5
P Sibanda	MSc/ Quorum sensing systems in <i>Pantoea ananatis</i> /2013	TA Coutinho	J Theron	2
G Khubheka	MSc/Studies on the interaction between <i>Pectobacterium carotovorum</i> ssp. <i>Braziliense</i> with potato/2013	L Moleleki	TA Coutinho	5
M du Plessis	MSc/Phylo- and comparative genomes on the <i>Pantoea</i> core genome/2014	SN Venter	ET Steenkamp TA Coutinho MPA Coetzee	2.5
E Appelgryn	MSc/ Interaction between avocado and <i>Phytophthora cinnamomi</i>	N van den Berg	TA Coutinho	2
O Makhari	MSc/ Vegetative compatibility groups in <i>Fusarium circinatum</i>	ET Steenkamp	TA Coutinho MJ Wingfield	7 part time
J Hakizimana	MSc/ Investigations into the biocontrol of avocado root rot/2009	N van den Berg	TA Coutinho	5
S Stanton	MSc/ Phytochemical and morphological comparison between <i>Pachystigma</i> spp./2011	M Meyer	TA Coutinho	4
S du Raan	MSc/ Management of soft rot	J van der Waals	TA Coutinho	3

	and black leg of potatoes in South Africa /2012			
G Shin	MSc/ Population genetic of <i>P. ananatis</i> /2015	SN Venter	TA Coutinho	3
K Bophela	MSc/ <i>Enterobacter</i> and <i>Xanthomonas</i> spp. Associated with bacterial blight of eucalypts/2015	TA Coutinho	SN Venter	3
V Cronje	MSc/ Interaction between <i>Eucalyptus</i> and <i>Pantoea ananatis</i> /2016	TA Coutinho	N van den Berg	4
R Nesamari	MSc/ Diseases of cycads in South Africa/2016	J Roux	TA Coutinho	3
P Madupe	MSc/ Comparative genomics of <i>Xanthomonas vasicola</i> from different hosts/2016	TA Coutinho	SN Venter	2
A du Preez	MSc/ Flagella glycosylation in <i>Pantoea ananatis</i> /2016	P de Maayer	TA Coutinho	2

5.2 Current post-graduate students

Name of student	Degree ² enrolled for and date of first registration	Project title	Supervisor	Co-supervisor(s)	Year of registration
G Carstensen	PhD/2012	A study on the <i>Eucalyptus/Ralstonia solanacearum</i> interaction	TA Coutinho	SN Venter MJ Wingfield	3 rd
V Moloto	PhD/2013	Bacterial pathogens of onions in South Africa	TA Coutinho	T Gosczyńska (ARC)	3 rd part time
M Muller	PhD/2014	Bacterial diseases of cherry trees and fruit in South Africa	TA Coutinho	Y Pietersen (ARC)	1 st
V Shutt	PhD/2014	Bacterial wilt of solanaceous crops in Africa	TA Coutinho	J van der Waals	1 st
G Shin	PhD/2016	Small RNAs in <i>Pantoea ananatis</i>	TA Coutinho	L Moleleki	0
K Bophela	PhD/2016	Bacterial canker of plums and peaches	TA Coutinho	Y Petersen	0
V Nakata	PhD/2015	<i>Xanthomonas</i> wilt of banana in central Africa	TA Coutinho		1

6. RESEARCH FUNDING

6.1 Obtaining research funds (Optional)

Origin of research funds (e.g. contract research, THRIP, international funding organizations, other(s))	Title of research project or programme	Duration	Money allocated (R) (Optional - exact amounts not required)
Japanese/SA bilateral agreement	<i>Pantoea</i> diversity	3yrs	R100000/ Year

² Indicate whether Honours, Masters research, Masters coursework with dissertation or Doctorate

RTF grant	Bacterial diseases of stone fruit trees in South Africa	3yrs	R250000 running costs R100000 PhD bursary
NRF competitive grant for rated researchers	Motility and quorum sensing in <i>Pantoea ananatis</i>	3yrs	R250000/yr
NRF competitive grant for rated researchers	Bacterial host jumps	3yrs	R300000/yr
HORTGRO	Bacterial canker of stone fruit trees	3yrs	R210000/yr

7. RESEARCH OUTPUTS

7.1 Publications in peer-reviewed or refereed journals

Provide full details of each publication, including full titles, names of all the authors, journals, dates, page numbers etc.

- Coutinho T.A. & Wallis F.M. (1991) A new bacterial streak disease of maize. *Journal of Phytopathology* **133**, 112-120.
- Coutinho T.A., Rijkenberg F.H.J. & Van Asch M.A.J. (1992) The preinvasion behaviour of *Hemileia vastatrix* on host and non-host leaf surfaces. *Journal of Phytopathology* **135**, 274-280.
- Van Asch M.A.J., Rijkenberg F.H.J. & Coutinho T.A. (1992a) Resistance induced in wheat by an avirulent race of *Puccinia recondita* f.sp. *tritici*. *Plant Disease* **76**, 412-415.
- Van Asch M.A.J., Rijkenberg F.H.J. & Coutinho T.A. (1992b) Phytotoxicity of fumonisin B1, Moniliformin, and T-2 toxin to corn callus cultures. *Phytopathology* **82**, 1330-1332.
- Coutinho T.A., Rijkenberg F.H.J. & Van Asch M.A.J. (1993) Development of infection structures by *Hemileia vastatrix* in resistant and susceptible selections of *Coffea* and in *Phaseolus vulgaris*. *Canadian Journal of Botany* **71**, 1001-1008.
- Coutinho T.A., Rijkenberg F.H.J. & Van Asch M.A.J. (1994b) The effect of leaf age on infection of *Coffea arabica* by *Hemileia vastatrix*. *Plant Pathology* **43**, 97-103.
- Coutinho T.A., Rijkenberg F.H.J. & Van Asch M.A.J. (1994a) Appressorium formation by *Hemileia vastatrix*. *Mycological Research* **97**, 951-956.
- Coutinho T.A., Rijkenberg F.H.J. & Van Asch M.A.J. (1995a) Teliospore formation of *Hemileia vastatrix*. *Mycological Research* **99**, 932-934.
- Coutinho T.A., Van Asch M.A.J. & Rijkenberg F.H.J. (1995b) The effect of triadimefon on early infection structure development of *Hemileia vastatrix* in *Coffea arabica* cv. Caturra. *Mycological Research* **99**, 793-798.
- Viljoen A., Wingfield M.J., Marasas W.F.O. & Coutinho T.A. (1995) Characterization of *Fusarium* isolates from *Gladiolus* corms pathogenic to pines. *Plant Disease* **79**, 1240-1244.
- Smith H., Wingfield M.J., Crous P.W. & Coutinho T.A. (1995) *Sphaeropsis sapinea* and *Botryosphaeria dothidea* endophytic in *Pinus* spp. and *Eucalyptus* spp. in South Africa. *South African Journal of Botany* **62**, 86-88.
- Wingfield M.J., Crous P.W. & Coutinho T.A. (1997) A serious canker disease of *Eucalyptus* in South

Africa caused by a new species of *Coniothyrium*. *Mycopathologia* **136**, 139-145.

13. Viljoen A., Wingfield M.J., Marasas W.F.O. & Coutinho T.A. (1997) Pitch canker of pines - a contemporary review. *South African Journal of Science* **93**, 411-413.
14. Coutinho T.A., Wingfield M.J., Alfenas A.C. & Crous P.W. (1998) Eucalyptus rust: a disease with the potential for serious international implications. *Plant Disease* **82**: 819-825.
15. Britz H., Wingfield M.J., Coutinho T.A. & Marasas W.F.O. (1998) Female fertility and mating type distribution in a South African population of *Fusarium subglutinans f.sp. pini*. *Applied and Environmental Microbiology* **64**: 2094-2095.
16. Smith H., Wingfield M.J. & Coutinho T.A. (1998) Eucalyptus die-back in South Africa associated with *Colletotrichum gloeosporioides*. *South African Journal of Botany* **64**: 226-228.
17. Britz H., Coutinho T.A., Wingfield M.J., Marasas W.F.O. & Gordon T.R. (1999) Establishment of *Gibberella fujikuroi* mating population in H for *Fusarium subglutinans f.sp. pini*. *Applied and Environmental Microbiology* **65**, 1198-1201.
18. Steenkamp E.T., Wingfield B.D., Coutinho T.A., Wingfield M.J. & Marasas W.F.O. (1999) Distinguishing *Fusarium subglutinans f.sp. pini* from other closely related isolates of *Fusarium subglutinans* based on histone gene sequence. *Applied and Environmental Microbiology* **65**, 3401-3406.
19. Jacobs A.S., Pretorius Z.A. & Coutinho T.A. (2000) Quantification of early infections structures of *Puccinia recondita f.sp. tritici* in wheat with leaf rust resistance derived from *Triticum monococcum*. *South African Journal of Science* **96**, 86-90.
20. Coetzee M.P.A., Wingfield B.D., Harrington T.C., Coutinho T.A. & Wingfield M.J. (2000) Geographical diversity of *Armillaria mellea s. s.* based on phylogenetic analysis. *Mycologia* **92**, 105-113.
21. Smith H., Wingfield M.J., de Wet J. & Coutinho T.A. (2000) Genotypic diversity of *Sphaeropsis sapinea* from South Africa and Northern Sumatra. *Plant Disease* **84**, 139-142.
22. De Wet J., Wingfield M.J., Coutinho T.A. & Wingfield B.D. (2000) Molecular characterization of *Sphaeropsis sapinea* isolates from South Africa, Mexico and Indonesia. *Plant Disease* **84**, 151-156.
23. Coutinho T.A., Wingfield M.J., Roux J., Riedel K-H. & Terblanche J. (2000) First report of bacterial wilt caused by *Ralstonia solanacearum* on eucalypts in South Africa. *Forest Pathology* **30**, 205-210.
24. Coetzee M.P.A., Wingfield B.D., Coutinho T.A. and Wingfield M.J. (2000) Identification of the causal agent of *Armillaria* root rot of *Pinus* species in South Africa. *Mycologia* **92**, 777-785.
25. Steenkamp E.T., Wingfield B.D., Coutinho T.A., Zeller K.A., Wingfield M.J., Marasas W.F.O. and Leslie J.F. (2000) PCR-based identification of *MAT-1* and *MAT-2* in the *Gibberella fujikuroi* species complex. *Applied and Environmental Microbiology* **66**, 4378-4382.
26. Steenkamp E., Britz H., Coutinho T., Wingfield B., Marasas W. and Wingfield M. (2000) Molecular characterisation of *Fusarium subglutinans* associated with mango malformation. *Molecular Plant Pathology* **1**, 187-193.
27. Roux J., Coutinho T.A., Wingfield M.J. and Bouillet J.P. (2000) Diseases of plantation *Eucalyptus* in the Republic of the Congo. *South African Journal of Science* **96**, 454-456.
28. Slippers B., Wingfield M.J., Wingfield B.D. and Coutinho T.A. (2000) Relationships amongst *Amylostereum* species associated with Siricid woodwasps, inferred from mitochondrial ribosomal DNA sequence. *Mycologia* **92**, 955-963.
29. Slippers B., Wingfield M.J., Wingfield B.D. and Coutinho T.A. (2001) Population structure and possible origin of *Amylostereum areolatum* in South Africa. *Plant Pathology* **50**, 206-210.
30. Roux J., Coutinho T.A., Majuni Byabashaija D. and Wingfield M.J. (2001) Diseases of plantation *Eucalyptus* in Uganda. *South African Journal of Science* **97**, 16-18.
31. Smith H., Crous P.W., Wingfield M.J., Coutinho T.A. and Wingfield B.D. (2001) *Botryosphaeria eucalyptorum* sp. nov., a new species in the *B. dothidea*-complex on *Eucalyptus* in South Africa. *Mycologia* **93**, 277-285.
32. Venter M., Wingfield M.J., Coutinho T.A. (2001) Molecular characterization of *Endothia gyrosa* isolates from *Eucalyptus* in South Africa and Australia. *Plant Pathology* **50**, 211-217.
33. Coetzee M.P.A., Wingfield B.D., Harrington T.C., Steimel J., Coutinho T.A. and Wingfield M.J. (2001) The root rot fungus *Armillaria mellea* introduced into South Africa by early Dutch settlers. *Molecular Ecology* **10**, 387-396.

34. Wingfield M.J., Roux J., Coutinho T., Govender P. and Wingfield B.D. (2001) Plantation disease and pest management in the next century. *Southern African Forestry Journal* **190**, 67-71.
35. Maseko B., Burgess T., Coutinho T. and Wingfield M. (2001) First report of *Phytophthora nicotianae* associated with *Eucalyptus* die-back in South Africa. *Plant Pathology* **50**, 413.
36. Steenkamp E.T., Coutinho T.A., Desjardins A.E., Wingfield B.D., Marasas W.F.O. and M.J. Wingfield (2001) *Gibberella fujikuroi* mating population E is associated with maize and teosinte. *Molecular Plant Pathology* **2**, 215-221.
37. Britz H., Coutinho T.A., Gordon T.R. and M.J. Wingfield (2001) Characterisation of the pitch canker fungus, *Fusarium circinatum*, from Mexico. *South African Journal of Botany* **67**, 609-614.
38. Maseko, B., T. Burgess, T.A. Coutinho and M.J. Wingfield. 2001. First report of *Phytophthora nicotianae* associated with *Eucalyptus* die-back in South Africa. *Plant Pathology* **50**, 413.
39. Coutinho T.A., Preisig O., Mergaert J., Cnockaert M.C., K-H. Riedel, J. Swings and M.J. Wingfield (2002) Bacterial blight and die-back of *Eucalyptus* species, hybrids and clones in South Africa. *Plant Disease* **86**, 20-25.
40. Wingfield M.J., Jacobs A, Coutinho T.A., Ahumada R. and Wingfield B.D. (2002) First report of the pitch canker fungus, *Fusarium circinatum*, on pines in Chile. *Plant Pathology* **51**, 397.
41. Britz H., Steenkamp E.T., Coutinho T.A., Wingfield B.D., Marasas W.F.O. and Wingfield M.J. (2002) Two new species of *Fusarium* section *Liseola* associated with mango malformation. *Mycologia* **94**, 722-730.
42. Van Zyl L.M., Coutinho T.A., Wingfield M.J., Pongpanich K. and Wingfield B.D. (2002) Morphological and molecular relatedness of geographically diverse isolates of *Coniothyrium zuluense* from South Africa and Thailand. *Mycological Research* **106**, 51-59.
43. Venter M., Myburg H., Wingfield B.D., Coutinho T.A. and Wingfield M.J. (2002) A new species of *Cryphonectria* from South Africa and Australia, pathogenic to *Eucalyptus*. *Sydowia* **54**, 98-117.
44. De Wet J., Wingfield M.J., Coutinho T. & Wingfield B.D. (2002) Characterisation of the "C" morphotype of the pine pathogen *Sphaeropsis sapinea*. *Forest Ecology and Management* **161**, 181-188.
45. Smith H., Coutinho T.A., Wolfaardt F.W. & Wingfield M.J. (2002) Relative susceptibility of northern and southern provenances of *Pinus greggii* to infection by *Sphaeropsis sapinea*. *Forest Ecology and Management* **166**, 331-336.
46. Smith H., Wingfield M.J. and Coutinho T.A. (2002) The role of latent *Sphaeropsis sapinea* infection in post-hail associated die-back of *Pinus patula*. *Forest Ecology and Management* **164**, 177-184.
47. Britz H., Coutinho T.A., Wingfield M.J. & Marasas W.F.O. (2002) Validation of the description of *Gibberella circinata* and morphological differentiation of the anamorph *Fusarium circinatum*. *Sydowia* **54**, 9-22.
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7.2 Books and/or chapters in books

Provide full details, including full titles, names of all the authors, publishers, dates, page numbers etc. Specify your exact contribution to the book e.g. editorial role, co-author

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7.3 Published full-length conference papers/keynote addresses

Provide full details of each publication, including full titles, names of all the authors, journals, dates, page numbers etc.

1. Coutinho T., Wingfield M.J., Viljoen A. & Marasas W.F.O. (1997) Pitch canker: the South African situation. Proceedings of the Tree Seed Pathology Workshop held in Opucno, Czech Republic, 9 - 11 October 1996. International Seed Testing Association. Pp. 29-35.
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4. Van Zyl L.M., Wingfield M.J. & Coutinho T.A. (1997) Diversity among isolates of *Coniothyrium zuluense*, a newly recorded *Eucalyptus* stem pathogen in South Africa. Proceedings of the IUFRO Conference on Silviculture and Improvement of Eucalypts. Salvador, Bahia, Brazil, 22 - 27 August 1997. Colombo: EMBRAPA. 3, 135-141.
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13. Wingfield, M.J., Slippers, B., Hurley, B., Coutinho, T.A., Wingfield, B.D. & Roux, J. (2007) Eucalypt pests and diseases: Growing threats to plantation productivity. International Union of Forestry Research Organizations Working Party 2.08.03 Congress on the Improvement and Culture of Eucalypts 'Eucalypts and diversity: balancing productivity and sustainability' 22 - 26 October 2007, Durban, South Africa.
14. Endah R, Coutinho T & Chikwamba R (2010) *Xanthmonas campestris* pv. *musacearum* induces sequential expression of two NRP-1 like genes in banana. *Aspects of Applied Biology* 96, *Agriculture: Africa's "engine for growth" – Plant science and biotechnology hold the key*, pp. 325-330.

7.4 Non-refereed publications or popular articles

Provide full details of each publication, including full titles, names of all the authors, journals, dates, page numbers etc.

1. Compilation of the booklet "Biotechnology in South Africa" Volume 1 (1992) and 2 (1993). Published by the FRD (Programme Series No. 2). ISSN 0-9583181-5-8.
2. Compilation of the "Biotechnology Student Workshop '93 Proceedings" (1993). Published by the FRD (Programme Series No. 5). ISBN 1-874916-10-1.
3. Disease diagnostic TPCP pamphlets (1996 - present) Pitch canker of pines, Armillaria root disease, Rhizina root rot, Eucalyptus rust, *Sphaeropsis sapinea*, Dothistroma leaf blight, Phytophthora root rot, Mycosphaerella leaf diseases. Bacterial Wilt.

7.5 Patents

Provide full details of provisional or full patents

n/a

7.6 Technical reports

Provide full details.

Coutinho T.A. & Wingfield WJ (1994) Report on the screening of *Pinus radiata*, *P. patula* and *P. taeda* callus for resistance to *Fusarium subglutinans* f.sp. *pini*. (Contract Research for CSIR, Forestek)

Coutinho T.A. (1996) Coffee leaf rust in Malawi. (Contract Research, Bayer, SA).

Coutinho T.A. (1997) Report to Outspan International on the research conducted on the root rot complex of citrus.

Coutinho T.A. (2002) Report to Bayer Crop Science on research conducted on coffee leaf rust.

8. OTHER SCHOLARLY RESEARCH-BASED CONTRIBUTIONS

8.1 Participation in conferences, workshops and short courses - specify type of contribution

Provide full details of participation in national and international conferences etc

8.1.1 National

1. Coutinho T.A., Wallis F.M. and Bandu V. (1985) Comparison of transmission electron microscopy techniques for viewing flagella of plant pathogenic bacteria. Electron Microscopy Society of Southern Africa 15, 81-82.
2. Coutinho T.A. & Wallis F.M. (1987) Further studies on bacterial streak disease of maize. Proceedings of the twenty-fifth Annual Plant Pathology Congress, UOFS, Bloemfontein.
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5. Coutinho T.A., Viljoen A., Wingfield M.J. & Marasas W.F.O. (1995) Selection of sexually fertile parents of *Fusarium subglutinans* f.sp. *pini*. Proceedings of the Thirty-third Annual Plant Pathology Congress, Thaba 'Nchu Sun, Free State.

6. Coutinho T.A. & Rijkenberg F.H.J. (1995) Life cycle of *Hemileia vastatrix*: a microscopy study. Proceedings of the Thirty-third Annual Plant Pathology Congress, Thaba 'Nchu Sun, Free State.
7. Wingfield M.J., Coutinho T.A. & Wingfield B.D. (1995) The Tree Pathology Cooperative Programme - UOFS. Proceedings of the All African Conference on Biotechnology, 13 - 15 November, University of Pretoria, Pretoria.
8. Zhao G.H., Wingfield M.J., Coutinho T.A. & Crous P.W. (1996) A preliminary survey of poplar leaf and canker diseases in South Africa. Proceedings of the 34th Congress of the Southern African Society for Plant Pathology, Stellenbosch 14 - 17 January 1996. *South African Journal of Science* 92, viii.
9. Britz, H., Wingfield M.J., Wingfield B.D., Coutinho T.A. & Marasas W.F.O. (1996) Towards establishing a molecular technique to discriminate between host specific groups in *Fusarium subglutinans*. Proceedings of the 34th Congress of the Southern African Society for Plant Pathology, Stellenbosch 14 - 17 January 1996. *South African Journal of Science* 92, xi.
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37. Smith H., Wingfield M.J. & Coutinho T.A. (1998) The role of latent *Sphaeropsis sapinea* infections in post-hail associated die-back of *Pinus patula* and *Pinus radiata* in South Africa. Proceedings of the 36th Congress of the Southern African Society for Plant Pathology, Champayne Sports Resort, 25 - 28 January 1998. *South African Journal of Science* 94, xxvi.
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- Society for Plant Pathology, Pietermaritzburg, 17 – 20 January 1999. *South African Journal of Science* 95, ix.
39. Coutinho T.A., Britz H., Wingfield M.J. & Marasas W.F.O. (1999) A critical appraisal of the taxonomy of the newly described *Gibberella circinata* (anamorph: *Fusarium circinatum*). Proceedings of the 37th Congress of the Southern African Society for Plant Pathology, Pietermaritzburg, 17 – 20 January 1999. *South African Journal of Science* 95, vii.
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61. Coutinho, TA, Venter SN, Roux J, Zhou XD & Wingfield MJ (2011) Bacterial diseases of *Eucalyptus*. Joint meeting of the Australasian and Asian Plant Pathology Societies, Darwin, Australia, 26-29 April 2011.
62. De Maayer P, Venter SN & Coutinho TA (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 2011.
63. Hakizimana JD, Gryzenhout M, Coutinho TA & van den Berg N (2011) Endophytic diversity in *Persea americana* (avocado) trees and their ability to display biocontrol activity against *Phytophthora cinnamomi*. World Avocado Congress, Australia, July 2011.
64. Shyntum DY, Venter SN, Moleleki L and Coutinho TA (2012) The Type VI secretion system in *Pantoea ananatis* plays a role in bacterial competition. American Phytopathology Society Congress, Providence, Rhode Island, 4-8 August 2012.
65. De Maayer P, Venter SN, Coutinho TA (2012) Comparative genomic and biochemical analyses of the large pPANA1 plasmid of *Pantoea ananatis*. American Phytopathology Society Congress, Providence, Rhode Island, 4-8 August 2012.
66. Sibanda P, Theron J & Coutinho TA (2013) Functional characterization of quorum sensing systems in *Pantoea ananatis*. 10th International Congress of Plant Pathology, Beijing, China, 25-30 August 2013.
67. Coutinho TA & Venter SN (2013) Taxonomy of bacterial plant pathogens from Genera in the Enterobacteriaceae not commonly thought to include plant pathogens. 10th International Congress of Plant Pathology, Beijing, China, 25-30 August 2013.[invited presentation]
68. Coutinho TA, L. van der Westhuizen, S McFarlane, J Roux, G Carstensen & SN Venter (2013) *Xanthomonas vasicola* pv. *vasculorum* jumps hosts from sugarcane to Eucalyptus in South Africa. 10th International Congress of Plant Pathology, Beijing, China, 25-30 August 2013.
69. Carstensen GD, SN Venter, MJ Wingfield & TA Coutinho (2013) Classification of *Ralstonia solanacearum* isolates from diseased *Eucalyptus* using phylotyping and DNA sequence analyses. 10th International Congress of Plant

Pathology, Beijing, China, 25-30 August 2013.

70. Carstensen, G.D., Venter S.N., Wingfield M.J. and Coutinho, T.A. (2014) Phylotyping of *Ralstonia solanacearum* isolates causing disease in *Eucalyptus*. Proceedings of the 13th International Congress of Plant Pathogenic Bacteria, Shanghai, China, 8-13 June 2014.
71. Carstensen G.D., Venter S.N., Wingfield, M.J. and Coutinho, T.A (2014) A metagenomic study on the bacterial exudate collected from *Eucalyptus* spp. trees showing typical symptoms of bacterial wilt infection by *R. solanacearum*. Proceedings of the 13th International Congress of Plant Pathogenic Bacteria, Shanghai, China, 8-13 June 2014
72. Weller-Stuart T., Coutinho TA, Toth I and J Theron (2014) Mutations of flagellar (*flgK* and *motA*) and type IV pili (*pilA* and *pilT*) genes of *Pantoea ananatis* LMG20103 reduced motility, biofilm formation and virulence in onion seedlings. Proceedings of the 13th International Congress of Plant Pathogenic Bacteria, Shanghai, China, 8-13 June 2014.
73. Sibanda S, Shyntum D, Theron J and Coutinho TA (2014) Quorum sensing systems in *Pantoea ananatis* regulate acylated homoserine lactones synthesis, virulence, biofilm formation and exopolysaccharides production. Proceedings of the 13th International Congress of Plant Pathogenic Bacteria, Shanghai, China, 8-13 June 2014.
74. Sibanda S, Pretorius R, Moleleki L, Theron J and Coutinho TA (2014) A rapid assay for indirect measurement of acylated homoserine lactones (AHLs) using *Chromobacterium violaceum* in liquid systems without violacein extraction . Proceedings of the 13th International Congress of Plant Pathogenic Bacteria, Shanghai, China, 8-13 June 2014.
75. Coutinho TA (2015) Plant pathology in South Africa (and opportunistic plant pathogenic bacteria). British Society of Plant Pathology (BSPP) Molecular Plant Pathogens Congress, UWE, Bristol UK, 8-9 April 2015. [plenary lecture]
76. Venter SN, M du Plessis, MPA Coetzee, TA Coutinho & ET Steenkamp (2015) Applying an evolution-based species concept fo the delineation of bacterial speies: the *Pantoea* example. FEMS, Maastricht, the Netherlands, 8-11 June 2015 [invited lecture].

8.2 Teamwork and collaboration with others:

Other researchers (national and international)

Research leader in the Forestry and Agricultural Biotechnology Institute (FABI) (1998- to date)

Team member of the Tree Protection Co-operative Programme (1993 to 2016) and Centre of Excellence in Tree Health Biotechnology (2005 to 2016) [both under the directorship of Prof MJ Wingfield]

Team member of the Centre for Microbial Ecology and Genomics (2017-to date)

Profs Paul Birch and Ian Toth from the Hutton Research Institute, UK, on genomic projects

Profs Paul de Vos and Dr Ilse Cleenwerck from the Laboratorium voor Mikrobiologie, University of Gent, Belgium, on bacterial taxonomy projects

Prof Brion Duffy, KNAW, Switzerland, on genomic projects

Dr Sandra Denman, Forestry Research UK, on acute oak decline

Prof Y Takakawa, Japan, on the *Pantoea anantis* diversity project

Dr J Pietersen, ARC-Infruitec, on the stone fruit tree project

Other research institutions (national and international)

Industry

The South African Forestry Industry

HORTGRO

8.3 Membership in national and international bodies

List all the scientific associations or societies to which you belong. Name your involvement, e.g. honorary member, founder member, full member, chairman, president, secretary

Professional Memberships and Societies:

Southern African Society for Plant Pathology (1984 -)
(Chairperson of the Free State Branch of the Society from 1995 - 1997)
(Chairperson of the Northern Branch of the Society from 1999 to 2003)
(Chairperson of the Organising Committee for the 40th Congress held in January 2002)
(President from 2012-2015)
(Fellow, 2017)

South African Society for Microbiology (1994 -)

Botanical Society of South Africa (1996 -)

American Phytopathology Society (1996 -)
Office of Education Committee (2015-2017)

British Plant Pathology Society (1998 -)

Mycological Society of America (1999 -).

International Union of Microbiology Societies (2012 -)

American Society of Microbiology (2013-)

International Society of Plant Pathology (1998-)
EC Nomination Committee (2013-2018), specialist committee on plant pathogenic bacterial nomenclature (2012 to date)

8.4 Visits to local and overseas universities or research institutes as guest professor or researcher

Details are required

September to December 2003 – sabbatical research visit to the Laboratorium voor Microbiologie, University of Gent, Belgium – conducted research on the identification of *Pantoea* spp. associated with bacterial blight and die-back of *Eucalyptus*

September 2014 to May 2015 – sabbatical research at the ARC-Infruitec and Stellenbosch University – conducted research on stone fruit tree bacterial diseases

9. ARTISTIC OUTPUTS (if applicable)

9.1 Provide full details of artistic outputs, including public reviews of work, coordinating reports by experts in the field, publisher, production company etc

n/a

10. MANAGEMENT AND ADMINISTRATIVE DUTIES

10.1 List your involvement in departmental activities (e.g. administrative functions), faculty (e.g. Faculty Committees) or other university activities.

UP Heritage committee (2009 –)

Senior Appointments Committee (secundus for NAS) (2012-2014)
Member of the FABI management committee
Compiled and edited 8 editions of the FABI biennial report
Manage FABI when Prof MJ Wingfield is officially absent

11. COMMUNITY SERVICE OR PROFESSIONAL SKILLS

11.1 Outreach projects

(e.g. project titles, institutions and communities involved, etc.)

Managed a Diagnostic Clinic for the Tree Protection Co-operative Programme - extensively used by foresters, nursery managers and the public in South Africa (1994-2006).

11.2 Professional service performed

(e.g. courses presented, lectures at professional associations/clubs, radio or TV appearances, outside expert or appointment committee, etc.)

IUMS, SASPP representative (2002)
IUFRO South African Committee (2003)
International Congress of Plant Pathogenic Bacteria (ICPPB) Bacteriology Committee (2006-2010)
Member of the Pine Fusarium Working Group (PFWG) (2005 - 2011)
Chairperson of the organizing committee of the International *Fusarium* workshop held in Pretoria in 2003
Chairperson of the organizing committee of the 2nd International "*Erwinia*" workshop held in Reunion in 2010
Tenure assessments (NDSU, USA)
Promotions to full professor assessments (UNW and University of Wisconsin, USA)
ANR (France) proposal assessor (2014, 2015)
ARC (Australia) proposal assessor (2014, 2015)
OFR (Poland) proposal assessor (2015)

11.3 Clinical service

(e.g. full detail of rank/level of joint appointment, level of clinical service rendering responsibilities, university administration and academic responsibilities, CPD involvement, clinical trials involvement, etc.)

n/a

11.4 Involvement with other universities/scientific institutions

(e.g. external examiner, editor of journal, advisory council, CSIR, SA Council for Scientific Professions)

Editorial board member of the Southern Hemisphere Forestry Journal (2008 -)
Editorial board member of Journal of Pathogens (2011 -)
Editorial board member of Journal of Phytopathology (2013-)
NRF Postdoctoral Committee (2002 to 2009)
NRF Microbiology and Plant Pathology Assessment Committee (2008-2010)

External Examiner:

University of KwaZulu Natal

Mycology 210 and 212 (second year course), 1995 – present

University of Durban-Westville

Honours course in mycology, 1996 – 1998

University of Stellenbosch

Plant Pathology 454 (fourth year course), 2005 - present

11.5 Referee duties

(e.g. journals, dissertations/theses)

Review journal articles for Plant Disease, Plant Pathology, Phytopathology, European Journal of Plant Pathology, Australasian Plant Pathology, International journal of Systematic and Evolutionary Microbiology, Systematic and Applied Microbiology, Journal of Phytopathology, Microbiology, Canadian Journal of Microbiology

External Examiner:

University of KwaZulu Natal

External examiner: MSc of Ms J Omarjee, 2002

External examiner: MSc of Ms S Phillips, 2003

External examiner: MSc of Ms A Govender, 2010

External examiner of MSc upgrade to PhD: Mr CA Becker, 2014

External examiner: MSc O Okabe, 2014, 2015

University of Durban-Westville

External examiner: MSc of Ms M Jughoran, 1997

University of Pretoria

External examiner: MSc of Ms J Smith, 1998

Internal examiner: MSc of Mr F Fru, 2011

Internal examiner: MSc of Mr B Christie, 2012

Internal examiner: MSc of Ms K-A Pillay, 2012

Internal examiner: MSc of Mr Mongae, 2013

Internal examiner: MSc of Mr D Herron, 2013

Internal examiner: MSc of Ms A Prinsloo, 2013

Internal examiner: MSc of Ms R Viljoen, 2013

Internal examiner: MSc of Mr T Ralikwatha, 2013

Internal examiner: MSc of Ms J Bredenkamp, 2014

University of Cape Town

External examiner: MSc of Mr. C. Adams, 1999

University of the Free State

External examiner: PhD of Mr WHP Boshoff, 2000

External examiner: MSc of Ms J Terblanche, 2007

North West University

External examiner: MSc of Mr JH Habig, 2003

University of Durban-Westville

External examiner: MSc of Ms S Safodien, 2007

University of Johannesburg

External examiner: MSc of Ms C So, 2014

University of Mauritius

External examiner: MSc of Ms ZB Baichoo

University of Stellenbosch

External examiner: MSc of Ms. W. Stone, 2011
External examiner: MSc of Ms E Basson, 2012
External examiner: MSc of Ms C de Preez, 2015

University of Sydney, Australia

External examiner: PhD of Mr. C. Howard, 2008
External examiner: PhD of Mr. L. Shuttleworth, 2012

University of the Western Cape

External examiner: PhD of Mr. C Maronedze, 2009

12. AWARDS AND SCIENTIFIC/SCHOLARLY RECOGNITION

12.1 Evaluation status as scientist/scholar

(e.g. NRF; first evaluation and date, subsequent evaluations and dates)

Y-rating (1995 – 1998)
C3-rating (1999 –2003)
C2-rating (2004-2009)
C1-rating (2010-2011)
B3-rating (2012-2016)
B2 rating (2018-2023)

12.2 Research awards and prizes

Full details are required

An award from the Dept of Microbiology and Plant Pathology, University of Pretoria, in recognition of innovation in post-graduate training (1999).

An award from the Dept of Microbiology and Plant Pathology, University of Pretoria, for recognition of an outstanding publication record (2000).

A British Plant Pathology Fellowship for sabbatical support in Belgium (September to November 2003).

An Ernest Oppenheimer Memorial Trust Award for sabbatical support in Belgium (September to November 2003).

Publicity award (for organizing the 2004 International *Fusarium* Workshop) from SASPP (2005)

An award from the Dept of Microbiology and Plant Pathology, University of Pretoria, for recognition of an outstanding publication record (2007).

Exceptional achievers award from UP (2013-2015; 2016-18)

12.3 Teaching awards and prizes

Full details are required

n/a

12.4 Artistic awards and prizes

Full details required

n/a