

Brief Curriculum Vitae

Name:	Dr Treena Burgess BAgSc (Hons) PhD (Biol)
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My research field is the biology, ecology and genetics of beneficial and detrimental microorganisms in natural ecosystems and plantation forestry, with a focus on biodiversity and biosecurity issues. In Australia, I am particularly interested in the exchange or movement of pathogens between natural forests and plantations and on the role of endophytes in climate mediated declines in natural ecosystems. I have recently developed and interest in the role of Oomycetes in natural ecosystems

I have demonstrated multi-disciplinary skills (molecular and traditional plant pathology, molecular fungal genetics, plant physiology and nutrition, beneficial and detrimental plant-microbe interactions, biochemical plant defence, proteomics, histology, and microbiology). My work encompasses practical solutions for industry partners to basic science. I also have leadership and project management skills, student and post-doc supervision and an extensive network of collaborations nationally and internationally

Employment History (last 10 years):

October 2009-Present

Senior Lecturer, Biological Sciences
Murdoch University, Perth, Western Australia

March 2004-October 2009

Research Leadership Fellow
Murdoch University, Perth, Western Australia

This fellowship was awarded in addition to the position below. It includes more teaching, greater liaison with Industry and other research institutions, involvement in both the Plant Biosecurity CRC and the Forestry CRC and a more active role in acquiring research funding

March 2003-October 2009

Senior Post Doctoral Fellow
Murdoch University, Perth, Western Australia

New and emerging pathogens threatening the biosecurity and biodiversity of Australia's eucalypts

Jan 2002-Dec 2002

Post Doctoral Fellow
Murdoch University, Perth, Western Australia

Population genetics of *Botryosphaeria* spp associated with native and planted eucalypts in Western Australia

Professional Development:

- ◆ Supervision of Honours, Masters and PhD students
- ◆ Successful grant applications including ARC Discovery and Linkage projects
- ◆ Senior Editor of Australasian Plant Pathology (from Dec 2003)
- ◆ Referee for plant pathology journals and Thesis examination
- ◆ Adjunct position at the University of Pretoria
- ◆ Member of RWG7
- ◆ Member of EU working party FORTHREATS
- ◆ Member of EU COST Action PERMIT FP1002 and deputy leader of Working Group 2

Publications

All publications are available from the author or at the Murdoch Repository (<http://researchrepository.murdoch.edu.au/>)

Forest Pathology and Biosecurity

Andjic V, Dell B, Barber PA, Hardy GESJ, Wingfield MJ, Burgess TI. 2011. Plants for Planting; evidence for the movement of serious forest pathogen, *Teratosphaeria destructans* on infected germplasm. *European Journal of Plant Pathology* 131: 49-58.

Golzar H, Burgess TI. 2011. *Neofusicoccum parvum*, a causal agent associated with cankers and decline of Norfolk Island pine in Australia. *Australasian Plant Pathology*: DOI 10.1007/s13313-13011-10068-13314.

Burgess TI, Webster JL, Ciampini JA, White D, Hardy GESJ, Stukely MJC. 2009. Re-evaluation of *Phytophthora* species isolated during 30 years of vegetation health surveys in Western Australia using molecular techniques. *Plant Disease* 93: 215-223.

Barber PA, Carnegie AJ, Burgess TI, Keane PJ. 2008. Leaf diseases caused by *Mycosphaerella* species in *Eucalyptus globulus* plantations and nearby native forest in the Green Triangle Region of Australia. *Australasian Plant Pathology* 37: 372-381.

Andjic V, Barber PA, Carnegie AJ, Pegg G, Hardy GESJ, Wingfield MJ, Burgess TI. 2007. *Kirramyces viscidus* sp. nov., a new eucalypt pathogen from tropical Australia closely related to the serious leaf pathogen, *Kirramyces destructans* *Australasian Plant Pathology* 36: 478-487.

Andjic V, Pegg GS, Carnegie AJ, Callister A, Hardy GES, Burgess TI. 2010. Phylogeographic study reveals new cryptic species *Teratosphaeria pseudoecalypti* responsible for leaf blight of *Eucalyptus* in subtropical and tropical Australia. *Plant Pathology* 59: 900-912.

Dakin N, White D, Hardy GESJ, Burgess TI. 2010. The opportunistic pathogen, *Neofusicoccum australe*, is responsible for crown dieback of peppermint (*Agonis flexuosa*) in Western Australia. *Australasian Plant Pathology* 39: 202-206.

Thu PQ, Dell B, Burgess TI. 2009. Susceptibility of 18 eucalypt species to the gall wasp *Leptocybe invasa* Fisher & La Salle in the nursery and young plantations in Vietnam. *ScienceAsia* 35: 113-117.

Paap T, Burgess TI, McComb JA, Shearer BL, Hardy GESJ. 2008. *Quambalaria* species, including *Q. coyrecup* sp. nov., implicated in canker and shoot blight diseases causing decline of *Corymbia* species in the southwest of Western Australia. *Mycological Research* 112: 57-69.

Pegg G, O'Dwyer C, Carnegie AJ, Burgess TI, Wingfield MJ, Drenth A. 2008. *Quambalaria* species associated with eucalypt plantation development. *Plant Pathology* 57: 702-714.

Burgess TI, Andjic V, Hardy GESJ, Dell B, Xu D. 2006. First report of *Phaeophleospora destructans* in China. *Journal of Tropical Forest Science* 18: 144-146.

Dell B, Hardy GES, Burgess TI. 2008. Health and nutrition of plantation eucalypts in Asia. *Southern Forests* 70: 131-138.

- Jackson SL, Maxwell A, Burgess TI, Dell B, Hardy GES. 2008. Incidence and new records of *Mycosphaerella* species within a *Eucalyptus globulus* plantation in Western Australia Forest Ecology and Management 255 3931-3937.
- Burgess TI, Andjic V, Wingfield MJ, Hardy GESJ. 2007. The eucalypt leaf blight pathogen *Kirramyces destructans* discovered in Australia. Australasian Plant Disease Notes 2: 141-144.
- Cortinas M-N, Burgess TI, Dell B, Xu D, Wingfield MJ, Wingfield BD. 2006. First record of *Colletogloeopsis zuluense* comb. nov., causing a stem canker of *Eucalyptus* spp. in China. Mycological Research 110: 229-236.
- Burgess TI, Barber PA, Hardy GESJ. 2005. *Botryosphaeria* spp. associated with eucalypts in Western Australia including description of *Fusicoccum macroclavatum* sp. nov. Australasian Plant Pathology 34: 557-567.
- Ray JD, Burgess TI, Malajczuk N, Hardy GESJ. 2005. First report of Alternaria Blight of *Paulownia* spp. Australasian Plant Pathology 34: 107-109.
- Taylor A, Hardy GESJ, Wood P, Burgess TI. 2005. Identification and pathogenicity of *Botryosphaeria* species associated with grapevine decline in Western Australia. Australasian Plant Pathology 34: 187-195.
- Whyte G, Burgess TI, Barber PA, Hardy GESJ. 2005. First record of *Mycosphaerella heimii* in Australia. Australasian Plant Pathology 34: 605-606.
- Burgess T, Wingfield MJ. 2002. Quarantine is important in restricting the spread of exotic seed-borne tree pathogens in the southern hemisphere. International Forestry Review 4: 56-65.
- Burgess TI, Wingfield MJ. 2002. Impact of fungi in natural forest ecosystems; A focus on *Eucalyptus*. In: K Sivasithamparam, KW Dixon, RL Barrett (eds), Microorganisms in Plant Conservation and Biodiversity: pp. 285-306. Kluwer Academic Publishers, Dordrecht.
- Burgess T, Wingfield MJ. 2001. Exotic pine forestry in the Southern Hemisphere: A brief history of establishment and quarantine practices. South African Forestry Journal 192: 79-84.

Molecular Ecology and Evolution

- Bihon W, Burgess TI, Slippers B, Wingfield MJ, Wingfield BD. 2011. Distribution of *Diplodia pinea* and its genotypic diversity within asymptomatic *Pinus patula* trees Australasian Plant Pathology: DOI: 10.1007/s13313-13011-10060-z
- Bihon W, Slippers B, Burgess TI, Wingfield MJ, Wingfield BD. 2011. Sources of *Diplodia pinea* endophytic infections in *Pinus patula* and *P. radiata* seedlings in South Africa. Forest Pathology: doi: 10.1111/j.1439-0329.2010.00691.x.
- Jung T, Stukely MJC, Hardy GES, White D, Paap T, Dunstan WA, Burgess TI. 2011. Multiple new *Phytophthora* species from ITS clade 6 associated with natural ecosystems in Australia: evolutionary and ecological implications. Persoonia 26: 13-39.
- Sakalidis ML, Hardy GESJ, Burgess TI. 2011. Class III endophytes, clandestine movement amongst hosts and habitats and their potential for disease; a focus on *Neofusicoccum australe*. Australasian Plant Pathology: DOI 10.1007/s13313-13011-10077-13313.
- Sakalidis ML, Hardy GESJ, Burgess TI. 2011. Endophytes and potential pathogens of the baobab species *Adansonia gregorii*; a focus on the Botryosphaeriaceae Fungal Ecology 4: 1-14.
- Sakalidis ML, Ray JD, Lanoiselet V, Hardy GESJ, Burgess TI. 2011. Pathogenic Botryosphaeriaceae associated with *Mangifera indica* in the Kimberley Region of Western Australia. European Journal of Forest Pathology 130: 379-391.
- Adair RJ, Burgess TI, Serdani M, Barber PA. 2009. Fungal associations in *Asphondylia* (Diptera: Cecidomyiidae) galls from Australia and South Africa: implications for biological control of invasive acacias. Fungal Ecology 2: 121-134.
- Scott P, M., Burgess TI, Barber PA, Shearer BL, Stukely MJC, Hardy GESJ, Jung T. 2009. *Phytophthora multivora* sp. nov., a new species recovered from declining *Eucalyptus*, *Banksia*, *Agonis* and other plant species in Western Australia. Persoonia 22: 1-13.

- Slippers B, Burgess TI, Pavlic D, Ahumada R, Maleme H, Mohali SR, Rodas CA, Wingfield MJ. 2009. A diverse assemblage of Botryosphaeriaceae infect *Eucalyptus* in native and non-native environments. *Southern Forests* 71: 101-110.
- Taylor K, Barber PA, Hardy GESJ, Burgess TI. 2009. Botryosphaeriaceae from tuart (*Eucalyptus gomphocephala*) woodland, including the description of four new species. *Mycological Research* 113: 337-353.
- Hunter GC, van der Merwe NA, Burgess TI, Carnegie AJ, Wingfield BD, Crous PW, Wingfield MJ. 2008. Global movement and population biology of *Mycosphaerella nubilosa* infecting leaves of cold-tolerant *Eucalyptus globulus* and *E. nitens* *Plant Pathology* 57: 235-242.
- Nakabonge G, Burgess TI, Gryzenhout M, Roux J, Wingfield BD, Wingfield MJ. 2008. Population structure of the fungal pathogen *Holocryphia eucalypti* in Australia and South Africa. *Australasian Plant Pathology* 37: 154-161.
- Zhou Z-D, Burgess TI, De Beer W, Lieutier F, Klepzig K, Carnegie AJ, Portales JM, Wingfield BD, Wingfield MJ. 2007. High inter-continental migration rates and population admixture in the sapstain fungus *Ophiostoma ips*. *Molecular Ecology* 16: 89-99.
- Burgess TI, Sakalidis ML, Hardy GES. 2006. Gene flow of the canker pathogen *Botryosphaeria australis* between *Eucalyptus globulus* plantations and native eucalypt forests in Western Australia. *Austral Ecology* 31: 559-566.
- Ellwood S, Burgess TI, Oliver R. 2006. SSR analysis of the *Medicago truncatula* SARDI core collection reveals substantial diversity and unusual genotype dispersal throughout the Mediterranean. *Theoretical and Applied Genetics* 112: 977-983.
- Mohali S, Burgess TI, Wingfield MJ. 2005. Diversity and host association of the tropical tree endophyte *Lasidiopodia theobromae* revealed using SSR markers. *Forest Pathology* 35: 385-396.
- Burgess TI, Gordon TR, Wingfield MJ, Wingfield BD. 2004. Geographic isolation of *Diplodia scrobiculata* and its association with native *Pinus radiata*. *Mycological Research* 108: 1399-1406.
- Burgess TI, Wingfield BD, Wingfield MJ. 2004. Global distribution of *Diplodia pinea* genotypes as revealed using SSR markers. *Australasian Plant Pathology* 33: 513-519.
- Burgess TI, Wingfield BD, Wingfield MJ. 2001. Comparison of genotypic diversity in native and introduced populations of *Sphaeropsis sapinea* isolated from *Pinus radiata*. *Mycological Research* 105: 1331-1339.
- Barnes I, Gaur A, Burgess TI, Roux J, Wingfield BD, Wingfield MJ. 2001. Microsatellite markers and DNA sequence reflect relationships between isolates of the vascular wilt and canker pathogen *Ceratocystis fimbriata*. *Molecular Plant Pathology* 2: 319-327.

Molecular Taxonomy and Ecology

- Bihon W, Slippers B, Burgess TI, Wingfield MJ, Wingfield BD. 2011. *Diplodia scrobiculata* found in the southern hemisphere. *Forest Pathology* 41: 175-181.
- Carnegie AJ, Pegg GS, White D, Burgess TI. 2011. Species within Mycosphaerellaceae and Teratosphaeriaceae from eucalypts in eastern Australia. *Australasian Plant Pathology*: DOI 10.1007/s13313-13011-10049-13317.
- Crous PW, Groenewald JZ, Shivas RG, Edwards J, Seifert KA, Alfenas AC, Alfenas RF, Burgess TI, Carnegie AJ, Hardy GES, Hiscock N, Hüberli D, Jung T, Louis-Seize G, Okada G, Pereira OL, Stukely MJC, Wang W, White GP, Young AJ, McTaggart AR, Pascoe IG, Porter IJ, Quaedvlieg W. 2011. Fungal Planet description sheets: 69–91. *Persoonia* 26: 108–156.
- Hawksworth DL, Crous PW, Redhead SA, Reynolds DR, Samson RA, Seifert KA, Taylor JW, Wingfield MJ, Abaci O, Aime C, Asan A, Bai F-Y, de Beer W, Begerow D, Berikten D, Boekhout T, Buchanan PK, Burgess TI, Buzina W, Cai L, Cannon PF, Crane JL, Damm U, Daniel H-M, van Diepeningen AD, Druzhinina I, Dyer PS, Eberhardt U, Fell JW, Frisvad JC, Geiser DM, Chirlei J, Glienke C, Gräfenhan T, Groenewald M, Groenewald JZ, de Gruyter J, Guého-Kellermann E, Guo L-D, Hibbett DS, Hong S-B, de Hoog GS, Houbraken J, Huhndorf SM, Hyde KD, Ismail A, Johnston PR, Kadaifciler DG, Kirk PM, Kõljalg U, Kurtzman CP, Lagneau P-E, Lévesque CA, Liu X, Lombard L, Meyer W, Miller A, Minter DW, Najafzadeh J, Norvell L, Ozerskaya SM, Öziç R, Pennycook SR, Peterson SW, Pettersson OV, Quaedvlieg W, Robert VA, Ruibal C, Schnürer J, Schroers H-J, Shivas RG, Slippers B, Spierenburg H, Takashima M, Taşkın E, Thines M, Thrane U, Uztan AH, van Raak M, Varga J,

- Vasco A, Verkley G, Videira SIR, de Vries RP, Weir BS, Yilmaz N, Yurkov A, Zhang N. 2011. The Amsterdam Declaration on Fungal Nomenclature. *IMA Fungus* 2: 105-112.
- Jung T, Burgess TI, Hüberli D, Hardy GESJ, Stukely MJC. 2011. *Phytophthora fluvialis*. *Fungal Planet* 87.
- Rea A, Burgess TI, Hardy GES, Stukely MJC, Jung T. 2011. Two novel species of *Phytophthora* associated with episodic dieback of kwongan vegetation of south-west Western Australia. *Plant Pathology*: DOI: 10.1111/j.1365-3059.2011.02463.x.
- Sakalidis ML, Hardy GES, Burgess TI. 2011. Use of the Genealogical Sorting Index (GSI) to delineate species boundaries in the *Neofusicoccum parvum*- *N. ribis* species complex. *Molecular Phylogenetics and Evolution* 60: 333-344.
- Taylor K, Andjic V, Barber PA, Hardy GESJ, Burgess TI. 2011. New species of *Teratosphaeria* associated with leaf diseases on *Corymbia calophylla* (Marri). *Mycological Progress*: DOI: 10.1007/s11557-11011-10738-11551.
- Andjic V, Whyte G, Hardy GESJ, Burgess TI. 2010. New *Teratosphaeria* species occurring on *Eucalyptus* in Australia. *Fungal Diversity* 43: 27-38.
- Rea A, Jung T, Burgess TI, Stukely MJC, Hardy GES. 2010. *Phytophthora elongata* sp. nov. a novel pathogen from the *Eucalyptus marginata* forest of Western Australia. *Australasian Plant Pathology* 39: 477-491.
- Schoch CL, Crous PW, Groenewald JZ, Boehm EWA, Burgess TI, de Gruyter J, de Hoog GS, Dixon LJ, Grube M, Gueidan C, Harada Y, Hatakeyama S, Hirayama K, Hosoya T, Huhndorf SM, Hyde KD, Jones EBG, Kohlmeyer J, Kruys A, Li YM, Lücking R, Lumbsch HT, Marvanová L, Mbatchou JS, McVay AH, Miller AN, Mugambi GK, Muggia L, Nelsen MP, Nelson P, Owensby CA, Phillips AJL, Phongpaichit S, Pointing SB, Pujade-Renaud V, Raja HA, Rivas Plata E, Robbertse B, Ruibal C, Sakayaroj J, Sano T, Selbmann L, Shearer CA, Shirouzu T, Slippers B, Suetrong S, Tanaka K, Volkmann-Kohlmeyer B, Wingfield MJ, Wood AR, Woudenberg JHC, Yonezawa H, Zhang Y, Spatafora JW. 2010. A class-wide phylogenetic assessment of Dothideomycetes. *Studies in Mycology* 64: 1-15.
- Crous PW, Summerell BA, Carnegie AJ, Wingfield MJ, Hunter GC, Burgess TI, Andjic V, Barber PA, Groenewald JZ. 2009. Uravelling Mycosphaerella: do you believe in genera? *Persoonia* 23: 99-118.
- Jung T, Burgess TI. 2009. Re-evaluation of *Phytophthora citricola* isolates from multiple woody hosts in Europe and North America reveals a new species, *Phytophthora plurivora* sp. nov. *Persoonia* 22: 95-110.
- Pavlic D, Wingfield MJ, Barber PA, Slippers B, Hardy GESJ, Burgess TI. 2008. Seven new species of the Botryosphaeriaceae discovered on baobabs and other native trees in Western Australia. *Mycologia* 100: 851-866.
- Andjic V, Barber PA, Carnegie AJ, Hardy GESJ, Wingfield MJ, Burgess TI. 2007. Phylogenetic reassessment supports accommodation of *Phaeophleospora* and *Colletogloeopsis* from eucalypts in *Kirramyces* *Mycological Research* 111: 1184-1198.
- Andjic V, Cortinas M-N, Hardy GESJ, Wingfield MJ, Burgess TI. 2007. Multiple gene genealogies reveal important relationships between species of *Phaeophleospora* infecting *Eucalyptus* leaves. *FEMS Microbiology Letters* 268: 22-33.
- Burgess TI, Barber PA, Sufaati S, Xu D, Hardy GESJ, Dell B. 2007. *Mycosphaerella* spp. on eucalypts in Asia; new species, new hosts and new records. *Fungal Diversity* 24: 135-157.
- Carnegie AJ, Burgess TI, Beilharz V, Wingfield MJ. 2007. New species of *Mycosphaerella* from Myrtaceae in plantations and native forests in eastern Australia. *Mycologia* 99: 461-474.
- Maseko B, Coutinho TA, Burgess TI, Wingfield BD, Wingfield MJ. 2007. Two new species of *Phytophthora* from South African eucalypt plantations. *Mycological Research* 111: 1321-1338.
- Burgess TI, Barber PA, Mohali S, Pegg G, De Beer W, Wingfield MJ. 2006. Three new *Lasiodiplodia* spp. from the tropics, recognised based on DNA sequence comparisons and morphology. *Mycologia* 98: 423-435.
- Crous PW, Slippers B, Wingfield MJ, Rheeder J, Marasas O, Phillips A, Alves A, Burgess TI, Barber PA, Groenewald JZ. 2006. Resolving phylogenetic lineages in the *Botryosphaeriaceae*. *Studies in Mycology* 55: 235-253.

- Barber PA, Burgess TI, Keane PJ, Hardy GESJ, Slippers B, Wingfield MJ. 2005. *Botryosphaeria* species from *Eucalyptus* in Australia are pleoanamorphic, producing *Dichomera* synanamorphs in culture. *Mycological Research* 109: 1347-1363.
- de Wet J, Burgess TI, Slippers B, Presig O, Wingfield BD, Wingfield MJ. 2003. Multiple gene genealogies and microsatellite markers reflect relationships between morphotypes of *Sphaeropsis sapinea* and identify a new species of *Diplodia*. *Mycological Research* 107: 557-566.
- Burgess T, Wingfield MJ, Wingfield BD. 2001a. Simple sequence repeat (SSR) markers distinguish between morphotypes of *Sphaeropsis sapinea*. *Applied and Environmental Microbiology* 67: 354-362.

Biodiversity

- Archibald RD, Craig MD, Bialkowski K, Howe C, Burgess TI, Hardy GESJ. 2011. Managing small remnants of native forest to increase biodiversity within plantation landscapes in the south west of Western Australia. *Forest Ecology and Management* 261: 1254-1264.
- Archibald RD, Craig MD, Burgess TI, Hardy GES. 2010. Bird communities in small native remnants of contrasting understorey condition within bluegum plantations. *Ecological Management and Restoration* 11: 215-217.

Population Genetics

- Taylor KM, Barber PA, Hardy GES, Burgess TI. 2010. Isolation and characterisation of polymorphic microsatellite loci in *Teratosphaeria cryptica*, a destructive foliar pathogen of *Eucalyptus* spp. . Molecular Ecology Resources Primer Database: biomath.trinity.edu/manuscripts/11-12/mer-10-0430.pdf.
- Burgess TI, Bihon W, Wingfield MJ, Wingfield BD. 2009. A simple and rapid method to determine vegetative compatibility groups in fungi. *Inoculum* 60(6): 1-2.
- Slippers B, Burgess TI, Wingfield BD, Crous PW, Coutinho TA, Wingfield MJ. 2004. Development of SSR markers for *Botryosphaeria* spp. with *Fusicoccum* anamorphs. *Molecular Ecology Notes* 4: 675-677.
- Burgess TI, Wingfield MJ, Wingfield BD. 2003. Development and characterization of microsatellite loci for the tropical tree pathogen *Botryosphaeria rhodina*. *Molecular Ecology Notes* 3: 91-94.
- Zhou X-D, Burgess TI, de Beer ZW, Wingfield BD, Wingfield MJ. 2002. Development of polymorphic microsatellite markers for tree pathogen and sapstain agent, *Ophiostoma ips*. *Molecular Ecology Notes* 2: 309-312.

Ectomycorrhizas and Plant Physiology

- Jackson T, Burgess TI, Colquhoun I, Hardy GES. 2000. Biochemical effects of the fungicide phosphite on *Eucalyptus marginata* inoculated with *Phytophthora cinnamomi*. *Plant Pathology* 49: 147-154.
- Burgess TI, Collins S, Hardy GESJ, Colquhoun I, McComb JA. 1999. A survey of the frequency, duration and oxygen content of surface and sub-surface water during early vegetation rehabilitation at the Huntly minesite, Western Australia. *Environmental Research Bulletin* no 28. Alcoa of Australia.
- Burgess TI, Hardy GESJ, Colquhoun I, McComb JA. 1999. Increased susceptibility of *Eucalyptus marginata* to stem infection by *Phytophthora cinnamomi* resulting from root hypoxia. *Plant Pathology* 48: 797-806.
- Burgess TI, Hardy GESJ, McComb JA, Colquhoun I. 1999. Effects of hypoxia on root morphology and lesion development in *Eucalyptus marginata* infected with *Phytophthora cinnamomi*. *Plant Pathology* 48: 786-796.
- Burgess TI, McComb JA, Hardy GESJ, Colquhoun I. 1998. Influence of low oxygen levels in aeroponics chambers on eucalypt roots infected with *Phytophthora cinnamomi*. *Plant Disease* 82: 368-373.
- Burgess TI, McComb JA, Hardy GESJ. 1997. Response of *Eucalyptus marginata* (Jarrah) to simulated waterlogging and *Phytophthora cinnamomi* infection. *Acta Horticulture* 447: 401-406.
- Burgess TI, Dell B. 1996. Changes in protein biosynthesis during the differentiation of *Pisolithus-Eucalyptus grandis* ectomycorrhizas. *Canadian Journal of Botany* 74: 553-560.

- Burgess TI, Dell B, Malajczuk N. 1996. *In vitro* synthesis of *Pisolithus-Eucalyptus* ectomycorrhizas: synchronisation of lateral tip emergence and ectomycorrhizal development. *Mycorrhiza* 6: 189-196.
- Burgess TI, Malajczuk N, Dell B. 1995. Variation in *Pisolithus* based on morphological and cultural characteristics and analysis of polypeptides using 1D-SDS PAGE. *Mycological Research* 99: 1-13.
- Burgess TI, Laurent P, Dell B, Malajczuk N, Martin F. 1995. Effect of the fungal isolate aggressiveness on the biosynthesis of symbiosis-related polypeptides in differentiating eucalypt ectomycorrhiza. *Planta* 195: 408-417.
- Martin F, Burgess TI, Carnera Diaz ME, de Carvalho D, Laurent P, Murphy P, Nehls U, Tagu D. 1995. Ectomycorrhiza morphogenesis Insights from studies of developmentally regulated genes and proteins. In: V Stocchi, P Bonfante, M Nuti (eds), *Biotechnology of Ectomycorrhizae*. Plenum Press, New York.
- Martin F, Laurent P, de Carvalho D, Burgess TI, Murphy P, Nehls U, Tagu D. 1995. Fungal gene expression during ectomycorrhiza formation. *Canadian Journal of Botany* 73: S541-547.
- Albrecht C, Burgess TI, Dell B, Lapeyrie F. 1994. Chitinase and peroxidase activities are induced in eucalyptus roots according to the aggressiveness of Australian ectomycorrhizal strains of *Pisolithus* sp. *New Phytologist* 127: 217-222.
- Burgess TI, Dell B, Malajczuk N. 1994. Variation in mycorrhizal development and growth stimulation of 20 *Pisolithus* isolates inoculated onto *Eucalyptus grandis* W Hill ex maiden. *New Phytologist* 127: 731-739.
- Burgess TI, Malajczuk N, Grove TS. 1993. The ability of 16 isolates of ectomycorrhizal fungi to increase growth and phosphorus uptake of *Eucalyptus globulus* Labill and *E. diversicolor* F Muell. *Plant and Soil* 153: 155-164.
- Grove TS, Malajczuk N, Burgess TI, Thomson BD, Hardy GESJ. 1991. Growth responses of plantation eucalypts to inoculation with selected ectomycorrhizal fungi, *The Role of Eucalypts Proceedings IUFRO Symposium on Intensive Forestry*, pp. 86-93. IUFRO, Durban, South Africa.
- Burgess TI, Malajczuk N. 1990. The effect of ectomycorrhizal fungi on reducing the variation of seedling growth of *Eucalyptus globulus*. *Agriculture, Ecosystem and Environment* 28: 41-46.

Conferences presented at in past 5 years

- ◆ 18th Biennial Australasian Plant Pathology Society Conference, April 2011
- ◆ 5th IUFRO Meeting on *Phytophthora* Diseases in Forests and natural ecosystems, Rotorua, March 2010
- ◆ IUFRO International Forest Biosecurity Conference, Rotorua, March 2009
- ◆ International Congress of Plant Pathology, Turin, August 2008
- ◆ Phythium and Phytophthora Workshop. Turin, August 2008
- ◆ International Entomological Congress, Durban, July 2008