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CURRICULUM VITAE



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ACADEMIC QUALIFICATIONS

PhD: Genetics (University of Pretoria, 2010)

MSc: Industrial Biotechnology (University of Newcastle, UK, 2003)

BSc: Botany and Psychology (University of South Africa, 2001)

BA Hons: Anthropology (University of the Free State, 1994)

BSocSc: Anthropology and Criminology (University of the Free State, 1993)

WORK / RESEARCH EXPERIENCE

2013-current: Research Fellow, University of Pretoria, Forestry and Agricultural Biotechnology Institute, Department of Genetics

2010-2012: Postdoctoral Fellow, Swedish University of Agricultural Sciences, Department of Forest Mycology and Plant Pathology

1998-2001: Technical Assistant, University of Pretoria, FABI, Forestry Molecular Biology Cooperative Programme

1996-1997: Technical Assistant University of Free State, Dept Microbiology and Biochemistry

PUBLICATIONS IN PEER-REVIEWED / REFEREED JOURNALS

Van der Nest MA, Olson Å, Lind M, Véléz H, Dalman K, Brandström Durling M, Karlsson M, Stenlid J. Distribution and evolution of *het* gene homologs in the Basidiomycota. *Fungal Genetics and Biology*. Provisionally accepted.

van der Nest MA, Steenkamp ET, Wilken PM, Stenlid J, Wingfield MJ, Wingfield BD, Slippers B. 2013. Mutualism and asexual reproduction influence recognition genes in a fungal symbiont. *Fungal Biology*. 117, pp. 439-50.

Lind, M, van der Nest M, Olson Å., Brandström-Durling M, Stenlid J. 2012. A full 2nd generation linkage map of *Heterobasidion annosum s.l.* based on *in silico* anchoring of AFLP-markers. *PLoS ONE*. 7:e48347.

Wingfield BD, Steenkamp ET, Santana Q, Coetzee MPA, Bam S, Barnes I, Beukes CW, Chan A WY, de Vos L, Fourie G, Friend M, Gordon TR, Herron DA, Holt C, Korf I, Kvas M, Martin

- SH, Mlonyeni O, Naidoo K, Phasha MM, Postma A, Reva O, Roos H, Simpson M, Slinski S, Slippers B, Sutherland R, van der Merwe NA, van der Nest MA, Venter SN, Wilken PM, Yandell M, Zipfeland R Wingfield MJ. 2012. First fungal genome sequence from Africa: A preliminary analysis. *South African Journal of Science*. 108, pp. 104-112.
- van der Nest MA, Steenkamp ET, Slippers B, Mongae A, van Zyl K, Stenlid J, Wingfield MJ, Wingfield BD. 2011. Gene expression associated with vegetative incompatibility in *Amylostereum areolatum*. *Fungal Genetics and Biology*. 48, pp. 034-1043.
- de Vos L, van der Nest MA, van der Merwe NA, Myburg AA, Wingfield MJ, Wingfield BD. 2011. Genetic analysis of growth, morphology and pathogenicity in the F1 progeny of an interspecific cross between *Fusarium circinatum* and *Fusarium subglutinans*. *Fungal Biology*. 115, pp. 902-908.
- Van der Nest MA, Slippers B, Steenkamp ET, De Vos L, Van Zyl K, Stenlid J, Wingfield MJ, Wingfield BD. 2009. Genetic linkage map for *Amylostereum areolatum* reveals an association between vegetative growth and sexual and self recognition. *Fungal Genetics and Biology*, 46, pp. 632-641.
- Van der Nest MA, Slippers B, Stenlid J, Wilken PM, Vasaitis R, Wingfield MJ, Wingfield BD. 2008. Characterization of the systems governing sexual and self-recognition in the white rot homobasidiomycete *Amylostereum areolatum*. *Current Genetics*, 53, pp. 323-336.
- Steenkamp ET, Van Der Nest MA, Wingfield MJ, Wingfield BD. 2003. Detection of hybrids in commercially propagated *Eucalyptus* using 5S rDNA sequence. *Forest Genetics*, 10 (3), pp. 195-205
- Van der Nest MA, Steenkamp ET, Wingfield BD, Wingfield MJ. 2000. Development of simple sequence repeat (SSR) markers in *Eucalyptus* from amplified inter-simple sequence repeats (ISSR). *Plant Breeding*, 119 (5), pp. 433-436

BOOKS AND/OR CHAPTERS IN BOOKS

- van der Nest MA, Wingfield BD, Wingfield MJ, Stenlid J, Vasaitis R, Slippers B. 2012. Genetics of *Amylostereum* species associated with Siricids. In: *The Sirex Woodwasp and its Fungal Symbiont: Research and Management of a Worldwide Invasive Pest*, Eds. Wingfield MJ, Slippers B. Chapter 6, pp 81-94

PUBLISHED FULL-LENGTH CONFERENCE PAPERS / KEYNOTE ADDRESSES

van der Nest MA, Wingfield BD, Wingfield MJ, Stenlid J, Vasaitis R, Slippers B. 2011. Genetics of *Amylostereum* Species Associated with Siricidae Woodwasps. The *Sirex* Woodwasp and its Fungal Symbiont: Research and Management of a Worldwide Invasive Pest. 01/2011.

INTERNATIONAL CONFERENCE PRESENTATIONS

Van der Nest MA, Olson Å, Lind M, Velez H, Dalman K, Brandström DM, Karlsson M, Stenlid J. 2013. Distribution and evolution of non-self recognition genes in Basidiomycota. 10th International Congress of Plant Pathology, August 25-30, Beijing, China.

Botha CM, van der Nest MA, Coetzee, MPA, Postma A, Slippers B. 2013. The genetic characterisation of the mating type loci in the fungus, *Amylostereum areolatum* (Basidiomycota). 10th International Congress of Plant Pathology, August 25-30, Beijing, China.

van der Nest MA, Slippers, B, Steenkamp, E.T., Wilken, P.M., Stenlid, J., Wingfield, M.J., Wingfield, B.D. 2011. Influence of symbiosis on the evolution and mode of reproduction of *Amylostereum* species. Comparative Genomics Of Eukaryotic Microorganisms: Understanding The Complexity Of Diversity, EMBO Conference Series. 15-20 October. Sant Feliu de Guixols, Spain.

van der Nest MA, Slippers B, Wilken M, van Zyl K, De Vos L, Stenlid J, Wingfield MJ, Wingfield BD. 2009. Genetic linkage map for *Amylostereum areolatum* reveals an association between vegetative growth and sexual and self recognition. Mycological Society of America Meeting, Snowbird, Utah, United States of America.

van der Nest MA, Slippers B, Wilken M, van Zyl K, De Vos L, Stenlid J, Wingfield MJ, Wingfield BD. 2008. Location of sexual and vegetative compatibility loci on an AFLP-based genetic linkage map of *Amylostereum areolatum*. 9th International Congress of Plant Pathology, Torino, Italy.

van der Nest MA, Slippers B, Stenlid J, Wingfield MJ, Wingfield BD. 2006. The effect of selection against sexual recombination on the diversity of *A. Areolatum* mating-type genes. 8th International Mycological Congress, Cairns, Australia.

van der Nest MA, Slippers B, Stenlid J, Wingfield MJ, Wingfield BD. 2005. Vegetative incompatibility in *Amylostereum areolatum*. Mycological Society of America Meeting. Hilo, Hawaii USA.

NATIONAL CONFERENCE PRESENTATIONS:

- van der Nest MA, Olson Å, Lind M, Véléz H, Dalman K, Brandström Durling M, Karlsson M, Stenlid J 2013. Distribution and evolution of putative *het* gene homologs in the Basidiomycota. SASM 2013 - 18th Biennial Congress, Bela-Bela.
- Botha CM, van der Nest MA, Coetzee MPA, Slippers B. 2013. Characterisation of the mating type loci in the fungus, *Amylostereum areolatum*. SASM 2013 - 18th Biennial Congress, Bela-Bela.
- Van der Nest MA, Slippers B, van Zyl K, Stenlid J, Wingfield MJ, Wingfield BD. 2009. Identification and characterization of selectively induced genes expressed during vegetative incompatibility in *Amylostereum areolatum*. 46th Congress of the Southern African Society for Plant Pathology, Gordon's Bay.
- Van der Nest MA, Slippers B, Wilken M, van Zyl K, De Vos L, Stenlid J, Wingfield MJ, Wingfield BD. 2008. Placement of *Amylostereum areolatum* compatibility genes and QTLs for homokaryon vigour on an AFLP linkage map. 20th South African Genetics Society Congress, Pretoria.
- Van der Nest MA, Wilken PM, Slippers B, Stenlid J, Wingfield BD, Wingfield MJ. 2006. Sexual compatibility in *Amylostereum areolatum*. 44th Congress of the South African Society for Plant Pathology, Magalies Park Country Club.
- Van der Nest MA, Steenkamp ET, Wingfield BD, Wingfield MJ. 2000. Evaluation of microsatellite markers for *Eucalyptus* fingerprinting. 17th Congress of the South African Genetics Society, Pretoria.
- Van Der Nest MA, Steenkamp ET, Wingfield BD, Wingfield MJ. 2000. Development of simple sequence repeat (SSR) markers in *Eucalyptus*. 37th Congress of the Southern African Society for Plant Pathology, Combined Millennium Meeting, Grahamstown.