**ALANA DEN BREEYEN**

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Weeds Pathology Unit

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**PERSONAL INFORMATION**

Gender: Female

Nationality: South African

Date of Birth: 10 June 1965

Languages: Fluent in English, Afrikaans, and Dutch

**PROFESSIONAL PROFILE**

Accomplished researcher with a PhD in plant pathology with a comprehensive blend of practical and academic research experience.

Strong background in national and international invasive weed fungal biological control programmes and plant-fungal interactions in invasive weeds.

Strong research capability in postharvest pathology of pome fruit.

Experienced in managing research projects from conception to completion.

Published author in different media formats.

**EDUCATION**

**Doctor of Philosophy in Plant Pathology**, University of Florida, Gainesville, Florida, USA, December 2007

**DISSERTATION**: Biological control of *Imperata cylindrica* in West Africa using fungal pathogens

**Master of Science in Plant Pathology**, Stellenbosch University, Stellenbosch, South Africa, March 1994

**THESIS**: The histopathology of *Monilinia laxa* on plum fruits

**Bachelor of Science in Botany and Plant Pathology**, Stellenbosch University, Stellenbosch, South Africa, December 1990

**PROFESSIONAL EXPERIENCE**

**Research Plant Pathologist**, ARC-Plant Health and Protection, Stellenbosch, South Africa, December 2012 – to date

* + - Manage three national weed biological control research projects investigating biological control of the invasive weed species *Parthenium hysterophorus*, *Campuloclinium macrocephalum* and *Lantana camara* using rust fungi.
    - Involved in the long-term monitoring projects for *Uromycladium morrisii* on *Acacia saligna* and *Colletotrichum acutatum* on *Hakea sericea*.
    - Prepare funding proposals including budgets for each research project.
    - Independently undertake field and laboratory trials.
    - Maintain rust cultures and mass-produce the fungi as required.
    - Undertake pre- and post-release evaluations to determine the impact of the fungi on the target invasive weeds.
    - Data analysis.
    - Prepare release applications for peer-review by national and international experts.
    - Produce fact sheets for the biological control agents.
    - Present oral and poster presentations at national and international conferences.
    - Manage technical staff within research programme.
    - Publish research in peer-reviewed journals and semi-scientific publications.
    - Compile reports to funders at a national scale twice a year on project progress and performance.

**Post-Doctoral Research Fellow,** Fruit and Postharvest Pathology Research Programme, Department of Plant Pathology, Stellenbosch University, Stellenbosch, South Africa, March 2010 – November 2012; Completion of post-doctoral contract

* + Managed research project on the postharvest disease, *Phlyctema vagabunda* (bull’s eye rot), of pome fruit in South Africa.
  + Determined the etiology of the bull’s eye rot pathogen in South Africa.
  + Determined the incidence and distribution of the pathogen.
  + Determined the epidemiology of the disease under South African conditions.
  + Undertook research into molecular methods to detect the pathogen pre- and post-harvest on fruit and designed species and genus specific primers.
  + Participated in international and national conferences.
  + Published articles in national and international peer-reviewed journals

**Post-Doctoral Research Fellow,** DST-NRF Centre of Excellence for Invasion Biology, Botany and Zoology Department, Stellenbosch University, Stellenbosch, South Africa, February 2008 – December 2009; **Reason for leaving:** Completion of post-doctoral contract

* + Conducted research on the potential role of fungal endophytes in the invasiveness of *Acacia* species in South Africa.
  + Collected and isolated endophytic fungi from invasive *Acacia* and native *Vachellia* species.
  + Identified isolates to morphospecies using cultural and morphological characteristics.
  + Undertook relevant molecular phylogenetic analyses using a multiple gene strategy including ITS and EF-1α.
  + Participated in international and national conferences.
  + Published articles in national and international peer-reviewed journals.

**Research Plant Pathologist**, ARC-Plant Protection Research Institute, Stellenbosch, South Africa, April 1997 - December 2003; **Reason for leaving:** Undertook PhD studies in the USA

* + - Managed two national and one international collaborative weed biological control projects.
    - Biological control of *Lantana camara* using fungal pathogens.
      * Undertook pathogenicity and host range testing of *Mycovellosiella lantanae* var. *lantanae* on *Lantana camara* biotypes in the quarantine facility.
      * Prepared the release application for review.
      * Carried out the first release worldwide of a fungal biocontrol agent for *Lantana camara* in South Africa.
        + Biological control of *Chromolaena odorata* using fungal plant pathogens.
        + Planned and undertook overseas survey and collection trips to Jamaica and Cuba.
        + Undertook pathogenicity testing of potential fungi isolated in quarantine.
* Biological control of water hyacinth *Eichhornia crassipes*.

Collaborative scientist for research grant funded by the US Department of Agriculture, in collaboration with the University of Florida, to investigate biological control agents for water hyacinth;

Undertook overseas field survey and collection trips to Brazil, Uruguay, Argentina and China.

Regional manager for the International Mycoherbicide Programme for *Eichhornia crassipes* Control in Africa (IMPECCA programme).

Drew up all project proposals and budgets.

* + - Managed technical staff within research projects.
    - Participated in national and international conferences.
    - Organized several annual national Weed Biocontrol workshops.
    - Published review articles in national and international peer-reviewed journal.

**PUBLICATIONS**

**Book Chapter**

**Den Breeyen, A.** and Charudattan, R. 2009. Biological control of invasive weeds in forests and natural areas by using microbial agents. Pages 189-210 in: Management of Invasive Weeds (Vol. 5). (ed. Inderjit), Springer, 363pp.

**Refereed Journal Articles**

**Den Breeyen, A.**, Rochefort, J., Russouw, A., Meitz-Hopkins, J. and Lennox, C.L. 2019. Preharvest detection and postharvest incidence of *Phlyctema vagabunda* on ‘Cripps Pink’ apples in South Africa. Plant Disease 0: In press.

Sutton, G.F., Canavan, K., Day, M.D., **den Breeyen, A.**, Goolsby, J.A., Cristofaro, M., McConnachie, A. and Paterson, I.D. 2019. Grasses as suitable targets for classical weed biological control. BioControl [64](https://doi.org/10.1007/s10526-019-09968-8) (6): 605-622.

Ndolo, D., Njuguna, E., Adentunji, C.O., Harbor, C., Rowe, A., **den Breeyen, A.**, Sangeetha, J., Singh, G., Szewczyk, B., Anjorin, T.S., Thangadurai, D. and Hospet, R. 2019. Research and development of biopesticides: Challenges and prospects. Outlooks on Pest Management 30(6): In press.

Retief, E., van Rooi, C., and **Den Breeyen, A**. 2016. Environmental requirements and host-specificity of *Puccinia eupatorii*, a potential biocontrol agent of *Campuloclinium macrocephalum* in South Africa. **Australasian Plant Pathology** 45 (2): 135-144. DOI 10.1007/s13313-016-0401-z.

Rochefort, J., **Den Breeyen, A.,** and Lennox, C.L. 2015. Disease incidence and orchard detection of *Neofabraea alba* on ‘Cripps Pink’ apples in the Western Cape of South Africa. **IOBC-WPRS Bulletin** 110 :147-149.

Rochefort, J., **Den Breeyen, A**., and Lennox, C.L. 2015. Fungicide sensitivity of a South African *Neofabraea alba* population towards the fungicides pyrimethanil and fludioxonil. **IOBC-WPRS Bulletin** 110 :107-108.

**Den Breeyen**, **A**. & Lennox, C.L. 2012. Towards the development of a rapid detection method for bull’s eye rot in apples. **IOBC-WPRS Bulletin** 84: 5-8.

Gaertner, M., **Den Breeyen, A.,** Hui, C. and Richardson, D. 2009. Impacts of alien plant invasions on species richness in Mediterranean-type ecosystems: a meta-analysis. **Progress in Physical Geography** 33(3): 1–20.

**Den Breeyen, A**., Groenewald, J.Z., Verkley, G.J.M. and Crous, P.W. 2006. Morphological and molecular characterisation of Mycosphaerellaceae associated with the invasive weed, *Chromolaena odorata*. **Fungal Diversity** 23: 89-110.

**Disease Notes**

Crous, P.W., Groenwald, J.Z., **Den Breeyen, A.** 2014. *Arxiella dolichandrae* Crous, *sp. nov.*, Fungal Planet Description Sheet 287. **Persoonia** 33: 226-227.

Crous, P.W., Groenwald, J.Z., **Den Breeyen, A**. and King, A. 2014. *Cercosporella dolicandrae* Crous & den Breeyen, *sp. nov.,* Fungal Planet Description Sheet 243.**Persoonia**32: 232-233*.*

Wood, A.R., **Den Breeyen, A.** and Beed, F. 2009. First report of smut on *Imperata cylindrica* caused by *Sporisorium schweinfurthianum* in South Africa. **Plant Disease** 93 (3): 322.

**Technical Papers**

**Den Breeyen, A.** 2014. *Puccinia xanthii*. Summer rust fungus for biocontrol of parthenium weed. ARC-PPRI Factsheets on Invasive Alien plants and their control in South Africa. www.arc.agric.za.

**Den Breeyen, A.** 2013. *Puccinia eupatorii*. A rust fungus for biocontrol of pompom weed. ARC-PPRI Factsheets on Invasive Alien plants and their control in South Africa. www.arc.agric.za.

Beed, F., Charudattan, R. and **Den Breeyen, A.** 2005. Development of ISSR's to characterise biotypes of *Imperata cylindrica* from southeastern USA and West Africa and field tests of plant pathogens for suitability as biocontrol agents. **International Bioherbicide Group Newsletter,** p 9-10.

[Beed, F.](http://biblio.iita.org/?page=author&kind=single&ID=1016), [Charudattan, R.](http://biblio.iita.org/?page=author&kind=single&ID=514) and [**Den Breeyen, A**.](http://biblio.iita.org/?page=author&kind=single&ID=513) 2004. Biological control of *Imperata cylindrica* in southeastern USA and West Africa. International Bioherbicide Group Newsletter, p7.

**Den Breeyen, A.** 2002.The Lantana leaf spot fungus (*Mycovellosiella lantanae* var. *lantanae*): A fungal pathogen of lantana (*Lantana camara*) in South Africa. **Dossiers on Biological Control Agents no. 26, ARC-PPRI**[, Pretoria, South Africa.](http://www.arc.agric.za/uploads/images/0_Mycovellosiella_lantanae.doc)

**Den Breeyen, A**. 2000. Biological control of water hyacinth in South Africa using plant pathogens. **Water Hyacinth News** 2: 3-6.

**Popular Articles**

Lennox, C.L., **Den Breeyen, A.** and Meitz-Hopkins, J. 2017. Management of postharvest diseases of apples using appropriate methods: A South African perspective. South African Fruit Journal Dec 2017/Jan 2018, 85 – 87.

Strathie, L., **Den Breeyen, A.** and Chidawanyika, F. 2015. Variable field establishment and a new biocontrol agent for *Parthenium hysterophorus* in South Africa **International Parthenium News** No. 11: 2-5.

**Den Breeyen, A.** and Strathie, L. 2014. International workshop on biological control and management of *Parthenium hysterophorus*. **Plant Protection News** 102: 11.

**Den Breeyen, A.** 2013. Rust fungi for the management of Parthenium weed in South Africa. **International Parthenium News** No. 8: 3-5.

**Den Breeyen, A.** 2009. Role of fungal endophytes in promoting invasiveness of Australian *Acacia* species in South Africa. **Plant Protection News** 79: 12.

**Refereed Conference Presentations**

**Den Breeyen, A.,** Richardson, D.M. and Wingfield, M.J. 2009. Endophytic fungi in native and exotic *Acacia* species in South Africa - friend or foe? **South African Journal of Botany** 75 (2):398-399.

Gaertner, M., **Den Breeyen, A**., Hui, C. and Richardson, D.M. 2009. Does invasion by alien plants cause a decline of native species richness? 5 mechanisms across 4 continents - A review. South African Journal of Botany 75: 401. 10.1016/j.sajb.2009.02.049.

**Den Breeyen, A.** 2004. Release strategies for the establishment of the leaf spot pathogen, *Mycovellosiella lantanae* var. *lantanae*, on *Lantana camara* in South Africa. In: Proceedings of the XI International Symposium on Biological Control of Weeds (eds Cullen, J.M., Briese, D.T., Kriticos, D.J., Lonsdale, W.M., Morin, L. and Scott, J.K.). pp.386-388. CSIRO Entomology, Canberra, Australia.

Lennox, C.L., Morris, M.J., Van Rooi, C., Serdani, M., Wood, A.R., **Den Breeyen, A**., Markram, J.L., and Samuels, G.A. 2004. A decade of biological control of *Acacia saligna* in South Africa using the gall rust fungus, *Uromycladium tepperianum*. In: Proceedings of the XI International Symposium on Biological Control of Weeds (eds Cullen, J.M., Briese, D.T., Kriticos, D.J., Lonsdale, W.M., Morin, L. and Scott, J.K.). pp.574-575. CSIRO Entomology, Canberra, Australia.

**Den Breeyen, A**. 2003. Biological control of *Chromolaena odorata* using plant pathogens: A South African perspective. In: Proceedings of the Fifth International Workshop on Biological Control and Management of *Chromolaena odorata,* (eds Zachariades, C., Muniappan, R., and Strathie, L.W.). pp 167-169. ARC-PPRI, Pretoria, South Africa.

**Den Breeyen, A**. 1999. Biological control of water hyacinth using plant pathogens: dual pathogenicity and insect interactions. In: Proceedings of the first IOBC Global Working Group Meeting for the Biological and Integrated Control of Water Hyacinth (eds Hill, M.P., Julien, M.H., and Center, T.D.). pp. 75-79. ARC-PPRI, Pretoria, South Africa.

Cilliers, C.J. and **Den Breeyen, A.** 1999. How long does it take to control water hyacinth? In: Proceedings of the first IOBC Global Working Group Meeting for the Biological and Integrated Control of Water Hyacinth (eds. Hill, M.P., Julien, M.H., and Center, T.D.). pp. 174-178. ARC-PPRI, Pretoria, South Africa.

**Presentations**

**Den Breeyen, A.** 2017. Does augmenting the pompom rust fungus *Puccinia eupatorii* impact field infections? 50th Congress of the Southern African Society for Plant Pathology, KwaZulu-Natal, 15 – 19 January 2017.

**Den Breeyen, A.** 2015. Rust fungi implemented as biocontrol agents against the invasive annual Parthenium weed in South Africa.49th Congress of the Southern African Society for Plant Pathology, Bloemfontein, 18 – 21 January 2015.

**Den Breeyen, A.** 2014.Developing an optimal augmentative release strategy for the pompom rust fungus *Puccinia eupatorii*, a biological control agent of *Campuloclinium macrocephalum* (pompom weed) in South Africa. Speed talk presented at XIVth International Symposium on Biological Control of Weeds, Kruger National Park, Skukuza, 2 – 7 March 2014.

**Den Breeyen, A.** 2014. Update on the rust fungi implemented as biocontrol agents against *Parthenium* weed in South Africa. International Workshop on Biological Control and Management of *Parthenium*. Addis Ababa, Ethiopia, 13 – 17 July 2014.

**Den Breeyen, A.** and Lennox, C.L. 2013. A review of *Neofabraea alba* on ‘Cripps Pink’ apples in South Africa. Presented at the 48th Congress of the Southern African Society for Plant Pathology, 20 – 23 January 2013, Bella Bella, South Africa.

**Den Breeyen, A.** and Lennox, C.L. 2012. Distribution and incidence of bull’s eye rot of apples in South Africa. Presented at the CIGR Section VII International Technical Symposium on *“Innovating the Food Value Chain”* Postharvest Technology and Agri-Food Processing Stellenbosch, South Africa, 25 – 29 November, 2012.

**Den Breeyen, A.** and Lennox, C.L. 2011. Etiology of *Neofabraea* spp. on storage apples in the Western Cape. Presented at the 47th Congress of the Southern African Society of Plant Pathology, 23 – 27 January 2011, Kruger National Park, South Africa.

**Den Breeyen, A.** 2011. Bull’s eye rot research: Update. Dole Technical Day, 24 November 2011.

**Den Breeyen, A.** and Lennox, C.L. 2011. A study on bull’s eye rot of apples in South Africa. Presented at the 9th International Congress on Postharvest Pathology, 11– 14 April 2011, Spain.

**Den Breeyen, A.** and Lennox, C.L. 2011. Towards the development of a rapid detection method for bull’s eye rot in apples. Presented at the 9th International IOBC/WPRS Workshop on Pome Fruit Diseases, 29 August – 2 September 2011, Belgium.

**Invited speaker**

Invited speaker at the ICGEB (International Centre for Genetic Engineering and Biotechnology) Biopesticides workshop titled “Challenges to the Adoption of Biopesticides in Agriculture: Exploring solutions” held in Cape Town from 27 -29th November 2018

**Presentation 1:** General opportunities for the use of biopesticides in agriculture

**Presentation 2:** Key principles for the evaluation of biopesticide efficacy

**Presentation 3:** Development and commercialisation of biopesticides – a research perspective

Workshop outcomes published in Outlooks on Pest Management 30(6): In press.

**Guest Lectures**

**Den Breeyen, A.** Biocontrol of invasive weeds. Guest lecture presented to Fourth year and Honours students, Department of Plant Pathology, Stellenbosch University, August 2019.

**Den Breeyen, A.** Biocontrol of invasive weeds. Guest lecture presented to Fourth year and Honours students, Department of Plant Pathology, Stellenbosch University, August 2018.

**Den Breeyen, A.** (Almost) three decades of *Acacia saligna* biological control using *Uromycladium tepperianum.* Guest lecture presented to Fourth year and Honours class, Department of Plant Pathology, Stellenbosch University, July 2015.

**Den Breeyen, A.** *Neofabraea alba*: Postharvest decay causing bull’s eye rot. Presented to Fourth years and Honours students, Department of Plant Pathology, Stellenbosch University, August 2012.

**Abstracts**

**Den Breeyen, A.** 2019. Do augmentative releases of the pompom rust fungus *Puccinia eupatorii* optimally impact pompom weed in South Africa? Title. In: H.L. Hinz et al. (Eds), Proceedings of the XV International Symposium on Biological Control of Weeds, Engelberg, Switzerland, p. 266. <https://www.ibiocontrol.org/proceedings/>.

Strathie, L., **Den Breeyen, A**, Sambo, S., Chidawanyika, F., Goodall, J., Gareeb, M. and Magoso, X. 2019. Evaluating establishment and impact of four biological control agents on Parthenium hysterophorus in South Africa. In: H.L. Hinz et al. (Eds), Proceedings of the XV International Symposium on Biological Control of Weeds, Engelberg, Switzerland, p. 285. <https://www.ibiocontrol.org/proceedings/>.

Wood, A.R. and **Den Breeyen, A.** 2019. *Colletotrichum acutatum* infection levels on *Hakea sericea* under natural conditions. 51st Southern African Society of Plant Pathology Congress, Club Mykonos, Langebaan, 20 – 24 January 2019.

**Den Breeyen, A.** 2015. Rust fungi implemented as biocontrol agents against the invasive annual parthenium weed in South Africa.49th Congress of the Southern African Society for Plant Pathology, Bloemfontein, 18 – 21 January 2015.

**Den Breeyen, A.** 2015. *Puccinia eupatorii,* biocontrol rust fungus on pompom weed in South Africa. Poster presented at the49th Congress of the Southern African Society for Plant Pathology, Bloemfontein, 18 – 21 January 2015.

Rochefort, J., **Den Breeyen, A.** and Lennox, C.L. 2015. Disease incidence and distribution, and timing of bull’s eye rot infection on ‘Cripps Pink apple in growing regions of the Western Cape. 49th Congress of the Southern African Society for Plant Pathology, Bloemfontein, 18 – 21 January 2015.

Rochefort, J., **Den Breeyen, A.** and Lennox, C.L. 2015. Determining the sensitivity of a *Neofabraea alba* population from ‘Cripps Pink’ apple towards fungicides pyrimethanil and fludioxonil. Poster presented at the49th Congress of the Southern African Society for Plant Pathology, Bloemfontein, 18 – 21 January 2015.

**Den Breeyen, A.** 2014. Augmentative releases of the pompom rust fungus *Puccinia eupatorii*, a biological control agent of *Campuloclinium macrocephalum* (pompom weed) in South Africa. 42nd Annual Symposium on the Management of Invasive Alien Plants, Protea Karridene Beach Hotel, Illovo, KwaZulu-Natal, 18 – 20 June 2014.

**Den Breeyen, A.** 2014.Developing an optimal augmentative release strategy for the pompom rust fungus *Puccinia eupatorii*, a biological control agent of *Campuloclinium macrocephalum* (pompom weed) in South Africa. XIVth International Symposium on Biological Control of Weeds, Kruger National Park, Skukuza, 2 – 7 March 2014.

**Den Breeyen, A.** and Lennox, C.L. 2013. A review of *Neofabraea alba* on ‘Cripp’s Pink’ apples in South Africa. 48th Congress of the Southern African Society for Plant Pathology, 20 – 23 January 2013, Bella Bella, South Africa.

**Den Breeyen, A.** and Lennox, C.L. 2012. Distribution and incidence of bull’s eye rot of apples in South Africa. International Technical Symposium on *“Innovating the Food Value Chain”* Postharvest Technology and Agri-Food Processing Stellenbosch, South Africa, 25 – 29 November, 2012.

**Den Breeyen, A.**, Hite, A.H. and Lennox, C.L. 2012. *In vitro* sensitivity of *Neofabraea alba* with the fungicides, flusilazole and pyrimethanil. Poster presented at the CIGR Section VII International Technical Symposium on *“Innovating the Food Value Chain”* Postharvest Technology and Agri-Food Processing Stellenbosch, South Africa, 25 – 29 November, 2012.

**Den Breeyen, A.** and Lennox, C.L. 2011. Etiology of *Neofabraea* spp. on storage apples in the Western Cape. 47th Congress of the Southern African Society of Plant Pathology, 23 – 27 January 2011, Kruger National Park, South Africa.

**Den Breeyen, A.** and Lennox, C.L. 2011. A study on bull’s eye rot of apples in South Africa. Presented at the 9th International Congress on Postharvest Pathology, 11th – 14th April 2011, Spain.

**Den Breeyen, A.** and Lennox, C.L. 2011. Towards the development of a rapid detection method for bull’s eye rot in apples. Accepted for the 9th International IOBC/WPRS Workshop on Pome Fruit Diseases, 29th August – 2nd September 2011, Belgium.

**Den Breeyen, A.** Richardson, D.M. and Wingfield, M.J. 2009. The enemy within – are fungal endophytes a potential mechanism for invasiveness? Poster presented at the 46th Congress of the Southern African Society for Plant Pathology (SASPP) and 6th Congress of the African Mycological Association (AMA) – Programme and Abstracts, 25 – 28th January 2009, Gordon’s Bay.

Gaertener, M., **Den Breeyen, A.,** Hui, C. and Richardson, D.M. 2009. Does invasion by alien plant species cause a decline of native species richness? A review of five mechanisms over four continents. In: Proceedings of the 35th Annual Conference of the South African Association of Botanists (SAAB), Stellenbosch University, Stellenbosch, 19 – 22 January 2009.

**PROFESSIONAL SERVICE**

Co-supervisor for MSc student, *Department of Plant Pathology, Stellenbosch University, MSc awarded with distinction*, 2013-2014

Reviewer (ad hoc), *Phytopathology*, 2005

Reviewer (ad hoc), *Biological Control,* 2004; 2006; 2013

Reviewer (ad hoc), *Weed Science*, 2008; 2013

Reviewer (ad hoc), *European Journal of Plant Pathology*, 2015; 2016; 2017

Reviewer (ad hoc), *Journal of Applied Microbiology*, 2017; 2018

Reviewer and Assessor, *DAAD – NRF Joint In-County for Doctoral and Masters Scholarships*, 2017

Reviewer and Assessor, *National Research Foundation (NRF) – Extended Support for Completion of Masters and Doctoral Degrees*, 2017; 2019

Reviewer and Assessor, *NRF – Free Standing Free Standing Innovation and Scarce Skills for Masters*, 2017

Reviewer, *Department of Science and Technology – National Research Foundation (NRF) Project Proposals*, 2011

Reviewer, *NRF –* *Competitive Support for Unrated Researchers Project Proposal*, 2016; 2019

Reviewer, *NRF – Competitive Programme for Rated Researchers Project Proposal*,2015; 2019

Chairperson, *Abstract Review Committee: EMAPI Conference*, 2009

Coordinator, *Post-Doctoral Research Day, STIAS, Stellenbosch University*, October 2011

Scientific committee, *PhD Research Day*, *Southern African Society of Plant Pathology - Western Cape Branch, STIAS, Stellenbosch University,* November 2014

Scientific and Editorial committee, *IOBC-WPRS Postharvest, STIAS, Stellenbosch University,* 24 – 28 November 2014

Scientific and Editorial committee, *51st Congress of the Southern African Society for Plant Pathology (SASPP), Club Mykonos, Langebaan,* 20 – 24 January 2019

External examiner, MSc (Agricultural Sciences) Theses, Stellenbosch University, Stellenbosch, 2013; 2019; University of KwaZulu-Natal, 2012

Vice President, *Stellenbosch University Post-Doc Society*, 2009

President, *University of Florida* *Plant Pathology Graduate Student Association*, 2005 – 2006

**PROFESSIONAL MEMBERSHIPS**

Southern African Society of Plant Pathology (SASPP)