

PLANT SCIENCES RESEARCH OUTPUTS

Conference Contributions 2022

Papers delivered

Achilonu, C.C., Marais, G.J., Ghosh, S. & Gryzenhout, M. 2022. *First report of black spot disease and seedling wilt of pecans (Carya illinoensis) caused by Alternaria alternata in South Africa.* Paper delivered at the 52nd Congress of the Southern African Society for Plant Pathology (SASPP), Future Africa, University of Pretoria, Pretoria, South Africa. 1-3 August 2022.

Adams, L.D., Clark, V.R., Thabethe, V., Raji, I.A., Martin, G., Steenhuisen, S. & Downs, C. 2022. *Role of avian frugivores in germination of an invasive alien shrub Pyracantha angustifolia in Free State grasslands, South Africa.* Paper delivered at the 15th Pan-African Ornithological Congress, Victoria Falls, Zimbabwe. 21-25 November 2022.

Adams, L.D., Clark, V.R., Thabethe, V., Raji, I.A., Martin, G., Steenhuisen, S & Downs, C. 2022. *Role of avian frugivores in germination of an invasive alien shrub Pyracantha angustifolia in Free State grasslands, South Africa.* Paper delivered at the 28th International Ornithological Congress, hosted virtually by the University of KwaZulu-Natal. 15-19 August 2022.

Adams, L.D., Martin, G., Clark, V.R. & Steenhuisen, S. 2022. *Reproductive ecology of an invasive alien plant Pyracantha angustifolia in the eastern Free State Grasslands.* Paper delivered at the 1st Southern African Mountain Conference (SAMC2022), Champagne Sports Resort, South Africa. 14-17 March 2022.

Adams, L.D., Martin, G., Steenhuisen, S. & Downs, C. 2022. *Community perceptions on fleshy-fruited invasive alien plants in the grasslands.* Paper delivered at the School of Life Sciences Biodiversity Cluster UKZN (virtual). 28 September 2022.

Adams, L.D., Martin, G., Steenhuisen, S. & Downs, C. 2022. *Fleshy-fruited invasive alien plants in the Grasslands.* Paper delivered at the 4th South African National Biodiversity Institute (SANBI) Student Research Day (online). 12 April 2022.

Adams, L.D., Martin, G., Steenhuisen, S. & Downs, C. 2022. *Fleshy-fruited invasive alien plants in grasslands: preliminary results from a systematic review.* Paper delivered at the Biological Invasions Symposium, Alice, South Africa. 6-8 July 2022.

Alison, J., Steenhuisen, S., Payne, S.L. & Hoye, T. 2022. *Camera surveillance uncovers novel plant-pollinator interactions in montane ecosystems.* Paper delivered at the 1st Southern African Mountain Conference (SAMC2022), Champagne Sports Resort, South Africa. 14-17 March 2022.

Bender, C.M., Boshoff, W.H.P., Visser, B., Wood, A.R., Rothmann, L. & Pretorius, Z.A. 2022. *Fig rust: an unexplored disease in South Africa.* Paper delivered at the 52nd Congress of the

Southern African Society for Plant Pathologists (SASPP), Future Africa, University of Pretoria, Pretoria, South Africa. 1-3 August 2022.

Bester, S.P. & Joubert, L. 2022. *In search of the true identity of Nemesia ligulata*. Paper delivered at the 47th Annual Conference of the South African Association of Botanists (SAAB). Hosted online by North West University. 17-20 January 2022.

Bijzet, Z., Booyse, M. & Labuschagne, M. 2022. *Selecting for trait stability in a citrus breeding programme*. Paper delivered at the XIV International Citrus Conference, Turkey. 6-11 November 2022.

Bilal, H., Boshoff, W.H.P. & Mohase, L. 2022. *Exogenous application of salicylic acid and Puccinia triticina pre-inoculation reduces Diuraphis noxia induced leaf damage in wheat*. Paper delivered at the 25th International Plant Resistance to Insects Symposium. Hosted online by Malmo University, Sweden. 31 May-2 June 2022.

Boshoff, W.H.P., Terefe, T.G., Visser, B., Bender, C.M. & Pretorius, Z.A. 2022. *Rust diseases of food and forage crops in South Africa: new threats and research to mitigate their impact*. Paper delivered at the 52nd Congress of the Southern African Society for Plant Pathologists (SASPP), Future Africa, University of Pretoria, Pretoria, South Africa. 1-3 August 2022.

Chiuraise, N., Visser, B., Maré, A. & Boshoff, W.H.P. 2022. *Status of resistance to Puccinia triticina in Zimbabwean wheat germplasm*. Paper delivered at the 14th South African Plant Breeders' Association (SAPBA) Symposium, Protea Hotel, Stellenbosch, South Africa. 6-9 March 2022.

Cillié, C.D., Joubert, L. & Van der Merwe, R. 2022. *Evaluation of Hemerocallis accessions towards breeding for pollinators*. Paper delivered at the Annual Post-Graduate Symposium of the Department of Botany and Plant Biotechnology, University of Johannesburg, Johannesburg. South Africa. 22-23 November 2022.

Cobbold, J.M., Rothmann, L.A. & Joubert, L. 2022. *To bee or not to bee – floral rewards and pollination efficiency in South African Macadamia*. Paper delivered at the 47th Annual Conference of the South African Association of Botanists (SAAB). Hosted online by North West University. 17-20 January 2022.

Coertzen, R.D., Van Biljon, A. & Van der Merwe, R. 2022. *Physiological and biochemical responses associated with water-limited-induced-stress tolerance in vegetable type soybean*. Paper delivered at the 14th Southern African Plant Breeding Symposium, Protea Hotel, Stellenbosch, South Africa (hybrid). 6-9 March 2022.

Cozien, R., Van der Niet, T., Steenhuisen, S. & Johnson, S. 2022. *Geographic variation in floral traits and pollinators of the Drakensberg's Hidden Flower: Evidence for reptile- and rodent-*

pollinated chemotypes in Guthriea capensis (Achariaceae). Paper delivered at the 1st Southern African Mountain Conference (SAMC2022), Champagne Sports Resort, South Africa. 14-17 March 2022.

Edwards A., Swart, W.J. & Rothmann, L.A. 2022. *Characterising plant health promoting microorganisms (PGPM's) and potential biological control agents (BCA's) from the soybean microbiome*. Paper delivered at the Annual Post-Graduate Symposium of the Department of Botany and Plant Biotechnology, University of Johannesburg, Johannesburg. South Africa. 22-23 November 2022.

Effiom, A.C., Neumann, F.H., Gensel, J., Bamford, M.K., Schefuß, E., Zabel, M. & Scott. L. 2022. *Pollen Analysis of the Mkhuze Swamps, KwaZulu-Natal, South Africa*. Paper delivered at the Southern African Society for Quaternary Research (SASQUA) XXIII, Biennial Conference, St Lucia KwaZulu-Natal, South Africa. 25-30 September 2022.

Ferreira, E.L., Van Aardt, A.C. & Joubert, L. 2022. *Possible effect of community composition on pollination rewards in three Nemesia species from Namaqualand*. Paper delivered at the 47th Annual Conference of the South African Association of Botanists (SAAB). Hosted online by North West University. 17-20 January 2022.

Figuroa, M., Dodds, P.N., Henningsen, E.C., Lewis, D., Hewitt, T., Mago, R., Sperschneider, J., Hyles, J., Dillon, S., Webers, C., McElroy, K., Stone, E., Steffenson, B.J., Kanyuka, K., Berlin, A., Huang, Y.-F., Hickey, L., Klos, K., Gordon, T., Kianian, S.F., Liachko, I., Visser, B., Pretorius, Z.A., Boshoff, W., Pereira, D. & Stuckenbrock, E. 2022. *Delivering durable genetic resistance to oat crown rust: leveraging an extensive network of scientists and efforts*. Paper delivered at the 11th International Oat Conference (OAT2022), Perth, Australia. 10-13 October 2022.

Gerrano, A.S., Mbuma, N.W., Mumm, R., Thungo, Z., Mashilo J. & Mathew, I. 2022. *Variability and influence of environment on nutritional quality in fresh leaves and immature green pods of cowpea (Vigna unguiculata L. Walp)*. Paper delivered at the 14th South African Plant Breeders' Association (SAPBA) Symposium, Protea Hotel, Stellenbosch, South Africa. 6-9 March 2022.

Glennon, K.L., Mtileni, P., Mathura, S., Payne, S., Le Matire, N. & Steenhuisen S. 2022. *Drakensberg confetti: What drives flower colour variation in a mountain endemic?* Paper delivered at the 1st Southern African Mountain Conference (SAMC2022), Champagne Sports Resort, South Africa. 14-17 March 2022.

Grobler, H., Jackson, M. & Joubert, L. 2022. *Nectar spur development in Nemesia (Scrophulariaceae)*. Paper delivered at the Annual Conference of the Microscopy Society of South Africa (MSSA). Johannesburg, South Africa. 5-9 December 2022.

Grobler, H., Jackson, M. & Joubert, L. 2022. *Nectar spur development in Nemesia Vent. (Scrophulariaceae)*. Paper delivered at the 47th Annual Conference of the South African Association of Botanists (SAAB). Hosted online by North West University, South Africa. 17-20 January 2022.

Hlahla, J.M., Mafa, M.S., Van der Merwe, R. & Moloi, M.J. 2022. *The photosynthetic efficiency and carbohydrate responses of edamame cultivars under drought stress*. Paper delivered at the 47th Annual Conference of the South African Association of Botanists (SAAB). Hosted online by North West University, South Africa. 17-20 January 2022.

Herselman, L. 2022. *The omics of molecular plant breeding*. Plenary paper delivered at the University of Limpopo's 12th Faculty of Science and Agriculture Research Day, Polokwane, South Afrika. 21-23 September 2022.

Herselman, L. 2022. *The ongoing battle against destructive cereal killers*. Paper delivered at the 1st National Grain Research Programme Research Day, Future Africa, University of Pretoria, South Africa. 9 May 2022.

Khajoane, T.J., Labuschagne, M., Ramburan, S. & Mbuma, N.W. 2022. *Genotype and environmental effects on maize hybrids for grain yield, nutritional value and milling quality in South Africa*. Paper delivered at the Annual Post-Graduate Symposium of the Department of Botany and Plant Biotechnology at the University of Johannesburg, Johannesburg. South Africa. 22-23 November 2022.

Labuschagne, M., Matongera, N., Ndhela, T. & Van Biljon, A. 2022. *Incorporating zinc into provitamin A, quality protein maize and normal maize hybrids*. Paper delivered at the 36th European Federation of Food Science and Technology (EFFoST) International Conference, Dublin, Ireland, 7-9 November 2022.

Mafa, M.S. 2022. *The carbohydrates alarm signals in grain crops exposed to the biotic and abiotic conditions. What doesn't kill plants makes them weaker*. Paper delivered at the 1st National Grain Research Programme Research Day, Future Africa, University of Pretoria, South Africa. 9 May 2022.

Makhetha, T., Boshoff, W.H.P. & Marè, A. 2022. *The phenotypic and genotypic validation of leaf rust resistance in wheat varieties*. Paper delivered at the Annual Post-Graduate Symposium of the Department of Botany and Plant Biotechnology, University of Johannesburg, Johannesburg. South Africa. 22-23 November 2022.

Mapaura, A., Canavan, K., Richardson, D.M., Clark, V.R. & Steenhuisen, S. 2022. *Climate change and predicted changes in distribution of invasive Nassella species in South Africa and*

Lesotho. Paper delivered at the 1st Southern African Mountain Conference (SAMC2022), Champagne Sports Resort, South Africa. 14-17 March 2022.

Mbuma, N.W., Moloi, M.J., Gerrano, A.S. & Labuschagne, M.T. 2022. *Preliminary results on the investigation of the effect of drought stress on physiological parameters and nutritional quality traits of cowpea genotypes.* Paper delivered at the 14th South African Plant Breeders' Association (SAPBA) Symposium, Protea Hotel, Stellenbosch, South Africa. 6-9 March 2022.

McLean, C.C., Van Tol, J.J., Van Aardt, A.C., Kotze, E., Edwards, A., Swart, W. & Kotze, J.J. 2022. *Quantifying soil degradation through microbial activity of alpine soils in the Northern Drakensberg, South Africa.* Paper delivered at the 1st Southern African Mountain Conference (SAMC2022), Champagne Sports Resort, South Africa. 14-17 March 2022.

Meiring, M.C., McLaren, N.W. & Rothmann, L.A. 2022. *Bibliographical analysis of Sclerotinia sclerotiorum disease management on oilseed crops.* Paper delivered at the 52nd Congress of the Southern African Society for Plant Pathologists (SASPP), Future Africa, University of Pretoria, Pretoria, South Africa. 1-3 August 2022.

Meyer, W.B., Boshoff, W.H.P. & Visser, B. 2022. *Identification of new Puccinia helianthi race variants in South Africa and their impact on sunflower hybrids.* Paper delivered at the 52nd Congress of the Southern African Society for Plant Pathologists (SASPP), Future Africa, University of Pretoria, Pretoria, South Africa. 1-3 August 2022.

Meyer, W.B., Boshoff, W.H.P. & Visser, B. 2022. *Puccinia helianthi race variants and sunflower hybrid responses.* Paper delivered at the Annual Post-Graduate Symposium of the Department of Botany and Plant Biotechnology, University of Johannesburg, Johannesburg. South Africa. 22-23 November 2022.

Meyer, W.B., Boshoff, W.H.P. & Visser, B. 2022. *South African sunflower rust race variants and hybrid responses.* Paper delivered at the 33rd South African National Seed Organization (SANSOR) Congress, President Hotel, Cape Town, South Africa. 7-9 June 2022.

Minnaar-Ontong, A. 2022. *Screening and breeding soybean for disease resistance.* Paper delivered at the 1st National Grain Research Programme Research Day, Future Africa, University of Pretoria, South Africa. 9 May 2022.

Mmboyi, A., Bijzet, Z., Labuschagne, M.T. & Booyse, M. 2022. *Effect of storage temperatures on pollen viability of four litchi cultivars.* Paper delivered at the 14th South African Plant Breeders' Association (SAPBA) Symposium, Protea Hotel, Stellenbosch, South Africa. 6-9 March 2022.

Mngomezulu, N.T., Veldkornet, D.A., Rajkaran, A. & Peer, N. 2022. *Salt marsh vegetation loss at the Berg Estuary, South Africa.* Paper delivered at the Annual Post-Graduate Symposium,

Department of Botany and Plant Biotechnology at the University of Johannesburg, Johannesburg, South Africa. 22-23 November 2022.

Mohase, L., Masupha, P., Kemp, G. & Jankielsohn, A. 2022. *Salicylic and abscisic acids regulate defence responses of wheat to Diuraphis noxia*. Paper delivered at the 25th International Plant Resistance to Insects Symposium. Hosted online by Malmo University, Sweden, 31 May-2 June 2022.

Moloi, K.T., Martin, G., Clark, V.R. & Steenhuisen, S. 2022. *Reproductive ecology of Cotoneaster pannosus in montane grasslands of eastern Free State*. Paper delivered at the 1st Southern African Mountain Conference (SAMC2022), Champagne Sports Resort, South Africa. 14-17 March 2022.

Moloi, K.T., Martin, G., Clark, V.R. & Steenhuisen, S. 2022. *Seed biology and dispersal of Cotoneaster pannosus in grasslands of eastern Free State*. Paper delivered at the 47th Annual Conference of the South African Association of Botanists (SAAB). Hosted online by North West University, South Africa. 17-20 January 2022.

Moloi, M.J. 2022. *Applications of photosynthesis in production of grain crops*. Paper delivered at the 1st National Grain Research Programme Research Day, Future Africa, University of Pretoria, South Africa. 9 May 2022.

Mosikidi, T., Le Maitre, N., Steenhuisen, S., Clark, V.R., Lloyd, K. & Le Roux, A. 2022. *Environmental factors affecting the onset of dawn chorus of warblers in a high-elevation wetland*. Paper delivered at the African Bioacoustics Conference, Kruger National Park, South Africa. 2-8 October 2022.

Müller, M., Van Tol, J.J. & Van Aardt, A.C. 2022. *Community distribution along topographical units in the Golden Gate Highlands National Park, Free State Province, South Africa*. Paper delivered at the 1st Southern African Mountain Conference (SAMC2022), Champagne Sports Resort, South Africa. 14-17 March 2022.

Ngara, R. 2022. *Sorghum responses to abiotic stresses: fitting one puzzle piece at a time*. Plenary paper delivered at the 47th Annual Conference of the South African Association of Botanists (SAAB). Hosted online by North West University, South Africa. 17-20 January 2022.

Payne, S., Alison, J., Høye, T. & Steenhuisen, S. 2022. *Camera surveillance of invertebrate abundance and plant phenology within a montane climate change experiment*. Paper delivered at the International Mountain Conference (IMC), Innsbruck, Austria. 11-15 September 2022.

Radebe, N., Steenhuisen, S. & Cozien, R. 2022. *Pollination ecology of the rare Drakensberg Nerine bowdenii subspecies wellsii*. Paper delivered at the 1st Southern African Mountain Conference (SAMC2022), Champagne Sports Resort, South Africa. 14-17 March 2022.

Rothmann, L.A. 2022. *Field pathology: diseases of sorghum, soybean and sunflower*. Paper delivered at the 1st National Grain Research Programme Research Day, Future Africa, University of Pretoria, South Africa. 9 May 2022.

Rothmann, L.A. 2022. *Syllabus redesign: A quest to conquer a 'wee beastie' in plant health education*. Paper delivered at the University of the Free State Annual Learning and Teaching Conference, Bloemfontein. 16 September 2022.

Rothmann, L.A. 2022. *The South African Sclerotinia Research Network: progress and the way forward*. Paper delivered at the Rhizobium Symposium, Council for Scientific and Industrial Research International Convention Centre, Pretoria, South Africa. 7 September 2022.

Rothmann, L.A. & McLaren, N.W. 2022. *Assessment of Sclerotinia sclerotiorum sclerotia recovered from soybean and sunflower silos across South Africa*. Paper delivered at the 52nd Congress of the Southern African Society for Plant Pathologists (SASPP), Future Africa, University of Pretoria, Pretoria, South Africa. 1-3 August 2022.

Sadler, R., Verboom, G.A., Manning, J., Parker, T., Jackson, M., Van Zyl, J., Bergh, N.G. & Ellis, A.G. 2022. *Phylogeny of the southern African marigolds: the daisy tribe Calenduleae*. Paper delivered at the 47th Annual Conference of the South African Association of Botanists (SAAB). Hosted online by North West University, South Africa. 17-20 January 2022.

Scott, L. & Van Aardt, A.C. 2022. *Updating the African Pollen Database (APD) for the Quaternary in the South African interior*. Paper delivered at the Workshop held of the French Institute of South Africa (IFAS), Pleistocene Archaeology and Palaeoecology of the Free State, Florisbad, Free State. 14 July 2022.

Sedimo, G., Jackson, M., Bester, S.P. & Joubert, L. 2022. *Taxonomic revision and molecular phylogenetic analysis of Nemesia species in the Free State*. Paper delivered at the 47th Annual Conference of the South African Association of Botanists (SAAB). Hosted online by North-West University, South Africa. 17-20 January 2022.

Steyn, C. & Minnaar-Ontong, A. 2022. *Improvement of South African soybean cultivars against Sclerotinia stem rot*. Paper delivered at the 1st National Grain Research Programme Research Day, Future Africa, University of Pretoria, South Africa. 9 May 2022.

Terefe, T.G., Visser, B., Pretorius, Z.A. & Boshoff, W.H.P. 2022. *The continual emergence of new Puccinia triticina races on wheat in South Africa*. Paper delivered at the 52nd Congress of the Southern African Society for Plant Pathologists (SASPP), Future Africa, University of Pretoria, Pretoria, South Africa. 1-3 August 2022.

Theron, N., Swart, W.J., Gryzenhout, M. & Marais, G.J. 2022. *Members of the genus, Cladosporium, and their role in pecan scab in South Africa*. Paper delivered at the 52nd Congress

of the Southern African Society for Plant Pathologists (SASPP), Future Africa, University of Pretoria, Pretoria, South Africa. 1-3 August 2022.

Van der Merwe, R. 2022. *Vegetable-type soybean research and breeding at the UFS*. Paper delivered at the 1st National Grain Research Programme Research Day, Future Africa, University of Pretoria, South Africa. 9 May 2022.

Van der Merwe, R., Van der Merwe, J.B. & Van Biljon, A. 2022. *Combining ability of nutritional components in vegetable-type soybean*. Paper delivered at the 14th South African Plant Breeders' Association (SAPBA) Symposium, Protea Hotel, Stellenbosch, South Africa. 6-9 March 2022.

Veldkornet, D.A., Adams, J.B., Boatwright J.S. & Rajkaran, A. 2022. *Barcoding of estuarine macrophytes and phylogenetic diversity of estuaries along the South African coastline*. Paper delivered at the Southern African Marine Science Symposium, Elangeni Hotel, Durban, South Africa. 20-24 June 2022.

Venter, K., Marè, A., Herselman, L., Pretorius, Z.A. & Boshoff, W.H.P. 2022. *Rust response of the Watkins Core Collection of wheat landraces*. Paper delivered at the 14th South African Plant Breeders' Association (SAPBA) Symposium, Protea Hotel, Stellenbosch, South Africa. 6-9 March 2022.

Visser, B. 2022. *Rust research at the UFS*. Paper delivered at the 1st National Grain Research Programme Research Day, Future Africa, University of Pretoria, South Africa. 9 May 2022.

Visser, B., Bender, C.M., Boshoff, W.H.P. & Pretorius, Z.A. 2022. *Back to the future: using herbarium specimens to reconstruct the genetic development of two wheat rusts in South Africa*. Paper delivered at the 52nd Congress of the Southern African Society for Plant Pathologists (SASPP), Future Africa, University of Pretoria, Pretoria, South Africa. 1-3 August 2022.

Walle, T. & Labuschagne, M. 2022. *Trends and advances in maize biofortification in Southern Africa*. Paper delivered at the 14th South African Plant Breeders' Association (SAPBA) Symposium, Protea Hotel, Stellenbosch, South Africa. 6-9 March 2022.

Wood, A.R., Boshoff, W.H.P., Visser, B., Bender, C.M. & Pretorius, Z.A. 2022. *The heteroecious life cycle of Puccinia digitariae on Digitaria eriantha and Solanum species, the first to be elucidated in South Africa in a century*. Paper delivered at the 52nd Congress of the Southern African Society for Plant Pathologists (SASPP), Future Africa, University of Pretoria, Pretoria, South Africa. 1-3 August 2022.

Posters presented

Achilonu, C.C., Marais, G.J., Ghosh, S., Cason, E.D., Madisha, T. & Gryzenhout, M. 2022. *Random amplified microsatellites (RAMS) analysis showed no link to geographical location of*

Alternaria alternata populations causing black spot of pecans (*Carya illinoensis*) in South Africa. Poster presented at the 52nd Congress of the Southern African Society for Plant Pathologists (SASPP), Future Africa, University of Pretoria, Pretoria, South Africa. 1-3 August 2022.

Achilonu, C.C., Marais, G.J., Ghosh, S., Johar, D., Hassanin, S.O. & Gryzenhout, M. 2022. In vitro fungicide evaluation and antifungal activities of pecan leaf and husk extracts against *Alternaria alternata*: HPLC analysis of phenolic compounds. Poster presented at the 52nd Congress of the Southern African Society for Plant Pathologists (SASPP), Future Africa, University of Pretoria, Pretoria, South Africa. 1-3 August 2022.

Adams, L.D., Martin, G., Steenhuisen, S. & Downs, C. 2022. Community perceptions on invasive alien plant *Pyracantha angustifolia* in the eastern South African grasslands. Poster presented at Oppenheimer Research Conference, Johannesburg, South Africa. 5-7 October 2022.

Basson, H.J., Maré, A., Van der Merwe, R. & Minnaar-Ontong, A. 2022. *Fusarium* sudden death syndrome: A pre-breeding approach for resistance in South African soybeans. Poster presented at the 14th South African Plant Breeders' Association (SAPBA) Symposium, Protea Hotel, Stellenbosch, South Africa. 6-9 March 2022.

Chiuraise, N., Visser, B., Maré, A. & Boshoff, W.H.P. 2022. Status of resistance to *Puccinia triticina* in Zimbabwean wheat germplasm. Poster presented at the 14th South African Plant Breeders' Association (SAPBA) Symposium, Protea Hotel, Stellenbosch, South Africa. 6-9 March 2022.

Clayton, J. & Swart, W.J. 2022. Exploring the cannabis (*Cannabis sativa*) microbiome for beneficial microorganisms. Poster presented at the 52nd Congress of the Southern African Society for Plant Pathologists (SASPP), Future Africa, University of Pretoria, Pretoria, South Africa. 1-3 August 2022.

Coertzen, J., Slippers, B., Gryzenhout, M. & Marais, G.J. 2022. Neofusicoccum parvum and other members of the Botryosphaeriaceae associated with dieback in pecans in South Africa. Poster presented at the 52nd Congress of the Southern African Society for Plant Pathologists (SASPP), Future Africa, University of Pretoria, Pretoria, South Africa. 1-3 August 2022.

Du Toit, I., Boshoff, W.H.P., Rothmann, L.A. & Visser, B. 2022. Fungicide sensitivity among South African *Puccinia graminis* f. sp. tritici isolates. Poster presented at the 52nd Congress of the Southern African Society for Plant Pathologists (SASPP), Future Africa, University of Pretoria, Pretoria, South Africa. 1-3 August 2022.

Edwards, A. & Swart, W.J. 2022. Characterising the effect of salicylic acid on *Sclerotinia* stem rot of soybean. Poster presented at the 52nd Congress of the Southern African Society for Plant

Pathologists (SASPP), Future Africa, University of Pretoria, Pretoria, South Africa. 1-3 August 2022.

Edwards, A., Swart, W.J., & Rothmann, L.A. 2022. *Characterising plant health promoting microorganisms (PGPM's) and potential biological control agents (BCA's) from the soybean microbiome.* Poster presented at the 52nd Congress of the Southern African Society for Plant Pathologists (SASPP), Future Africa, University of Pretoria, Pretoria, South Africa. 1-3 August 2022.

Fosa, H., Swart W.J. & Coetzer, G. 2022. *Biocontrol of Rhizopus rot on spineless cactus pear (Opuntia ficus-indica L.).* Poster presented at the 52nd Congress of the Southern African Society for Plant Pathologists (SASPP), Future Africa, University of Pretoria, Pretoria, South Africa. 1-3 August 2022.

Fosa, H., Swart, W.J., & Coetzer, G. 2022. *Isolation and identification of three Bacillus spp. causing soft rot of spineless cactus pear.* Poster presented at the 52nd Congress of the Southern African Society for Plant Pathologists (SASPP), Future Africa, University of Pretoria, Pretoria, South Africa. 1-3 August 2022.

Fosa, H., Swart, W.J., & Coetzer, G. 2022. *Root growth promotion of spineless cactus pear cladodes using Debaryomyces fabryi and Aureobasidium pullulans.* Poster presented at the 52nd Congress of the Southern African Society for Plant Pathologists (SASPP), Future Africa, University of Pretoria, Pretoria, South Africa. 1-3 August 2022.

Hlongwane, N.V., Swart, W.J., Rothmann, L.A., & Edwards, A. 2022. *Exploring soybean and sunflower microbiomes for beneficial bacterial microorganisms.* Poster presented at the 52nd Congress of the Southern African Society for Plant Pathologists (SASPP), Future Africa, University of Pretoria, Pretoria, South Africa. 1-3 August 2022.

Lessing, A., Swart, W.J. & Marais, G.J. 2022. *Evaluation of fungi for dry retting of kenaf.* Poster presented at the 52nd Congress of the Southern African Society for Plant Pathologists (SASPP), Future Africa, University of Pretoria, Pretoria, South Africa. 1-3 August 2022.

Masisi T.V., McLaren, N.W., Jackson, M. & Rothmann, L.A. 2022. *Sorghum grain mold: identifying fungal colonisers, quantifying concomitant mycotoxins and exploring conducive weather periods.* Poster presented at the 3rd African Society of Mycotoxicology joint Mytox-South Conference Stellenbosch, South Africa. 3-8 September 2022.

Masisi, T.V., Rothmann, L.A., McLaren, N.W. & Jackson, M. 2022. *Identification and occurrences of fungi and mycotoxin contamination in sorghum grain fractions.* Poster presented at the 52nd Congress of the Southern African Society for Plant Pathologists (SASPP), Future Africa, University of Pretoria, Pretoria, South Africa. 1-3 August 2022.

Mbambo, S.T., Tedder, M.J. & Steenhuisen, S. 2022. *Effects of drought stress on flowering phenology and growth of grassland forbs*. Poster presented at the 57th Grassland Society of Southern Africa (GSSA) Congress, Aldam Holiday Resort & Conference Centre, Free State, South Africa. 26-28 July 2022.

Meyer, W.B., Boshoff, W.H.P. & Visser, B. 2022. *Occurrence and pathogenicity of Puccinia helianthi on sunflower in South Africa*. Poster presented at the 14th South African Plant Breeders' Association (SAPBA) Symposium, Protea Hotel, Stellenbosch, South Africa. 6-9 March 2022.

Mishasha, T., Zhou, M. & Van der Merwe, R. 2022. *Family by environment interactions for brix content in sugarcane breeding*. Poster presented at the 14th South African Plant Breeders' Association (SAPBA) Symposium, Protea Hotel, Stellenbosch, South Africa. 6-9 March 2022.

Miya, S., De Wit, M., Van Biljon, A., Venter, S.L. & Amonsou, E. 2022. *Characterization of mucilage proteins and carbohydrates responsible for capacity and stability of foam food systems*. Poster presented at the Xth International Congress on Cactus Pear and Cochineal: Cactus the new green revolution in drylands, Brazil, 26-29 September 2022.

Miya, S., De Wit, M., Van Biljon, A., Venter, S.L. & Amonsou, E. 2022. *Correlation of Opuntia ficus-indica Mill. and O. robusta mucilage yield to different physico-chemical characteristics*. Poster presented at the Xth International Congress on Cactus Pear and Cochineal: Cactus the new green revolution in drylands, Brazil, 26-29 September 2022.

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