



Plant Sciences

Conference contributions 2013

Baloyi, N., Sydenham, S.L., de Villiers, C.I.P. & Gryzenhout, M. 2013. PCR validation and chemotyping of causal *Fusarium* species of Fusarium Head Blight on South African wheat. 12th European Fusarium Seminar, Bordeaux, France, 12-16 May 2013 (poster presentation).

Bender, C.M. & Pretorius, Z.A. 2013. Genetic analysis of wheat stem rust resistance in South African triticale. 48th Congress of the Southern African Society for Plant Pathology, Bela-Bela, 20-23 January 2013 (poster presentation).

Bender, C.M., Visser, B. & Pretorius, Z.A. 2013. The rusts of *Secale africanum* in South Africa. 5th BGRI Technical Workshop, New Delhi, 19-22 August (poster presentation).

Bousman, B., Brink, J., Meier, H., Bateman, M., Trower, G., Grün, R., Codron, D., Rossouw, L., Ramsey, C.B., Ringstaff, C. & Scott, L. 2013. Middle and later Stone Age occupations in the Modder River Valley, South Africa. Association of Southern African Professional Archaeologists 2013 Biennial Conference. University of Botswana, Gaborone, 3-7 July 2013 (oral presentation).

Bousman, B., Sampson, G., Mauldin, R., Scott, K., Plug, I., Brink, J., Zoppi, U., Higham, T. & Scott, L. 2013. Evidence for Pre-Ceramic herding in Southern Africa. Association of Southern African Professional Archaeologists 2013 Biennial Conference. University of Botswana, Gaborone, 3-7 July 2013 (oral presentation).

Cawood, M.E., Pretorius, J.C. & van der Westhuizen, A.J. 2013. The effect of plant extracts on biotic resistance responses of wheat and the identification of an active compound. Natural products and Biocontrol, France (poster presentation).

Coetzee, L. & McLaren, N.W. 2013. Effect of cultivar and environment on grain mold severity and mycotoxin accumulation in sorghum. Proceedings of the 48th Annual Plant Pathology Congress, 20-24 January 2013. ATKV-Klein Kariba, Bella Bella (oral presentation).

Ecker, M., Lee-Thorp, J., Rossouw, L. & Scott, L. 2013. New results for palaeoenvironment and vegetation change from Wonderwerk Cave, South Africa. European Society for the study of Human Evolution, 19-21 September 2013 (poster presentation).



Herselman, L., Senoko, K.J., Sydenham, S.L. & Pretorius, Z.A. 2013. Marker-assisted breeding for durable wheat rust and *Fusarium* head blight resistance. 12th International Wheat Genetics Symposium, Pacifico Yokohama, Japan, 8-14 September 2013 (poster presentation).

Herselman, L., van der Linde, M.J.P., Sydenham, S.L. & Pretorius, Z.A. 2013. Development of wheat lines with complex resistance to rusts. 5th BGRI Technical Workshop, New Delhi, India, 19-22 August 2013 (poster presentation).

Hlalele, M.A., Swart, V.R. & Marais, G.J. 2013. *Busseola fusca* infestation and incidence of *Fusarium verticillioides* in maize (*Zea mays*). XVIIIth Congress of the Entomological Society of Southern Africa. Potchefstroom, 30 June - 3 July 2013 (oral presentation).

Jami, F., Slippers, B., Wingfield, M.J. & Gryzenhout, M. 2013. Diversity and distribution of latent pathogenic Botryosphaeriaceae on native *Acacia* in South Africa. 10th International Congress of Plant Pathology, Beijing, China, 25-30 August 2013 (poster presentation).

Jami, F., Slippers, B., Wingfield, M.J. & Gryzenhout, M. 2013. Host specificity of Botryosphaeriaceae occurring on *Acacia karoo* and surrounding native trees in South Africa. 10th International Congress of Plant Pathology, Beijing, China, 25-30 August 2013 (poster presentation).

Jami, F., Slippers, B., Wingfield, M.J. & Gryzenhout, M. (2013). First comprehensive survey of Botryosphaeriaceae associated with *Acacia karoo* across ecologically diverse regions of South Africa. 48th Congress of the Southern African Society for Plant Pathology, ATKV Klein Kariba, 20-24 January 2013 (oral presentation).

Janse van Rensburg, B., McLaren N.W. & Flett, B.C. 2013. Effect of a fungicide spray regime for foliar diseases on the incidence of fumonisin-producing *Fusarium* spp. and fumonisin on selected maize cultivars. Proceedings of the 48th Annual Plant Pathology Congress, ATKV-Klein Kariba, Bella Bella, 20-24 January 2013 (poster presentation).

Janse van Rensburg, B., McLaren, N.W. & Flett, B.C. 2013. The potential risk of grain colonisation by fumonisin-producing *Fusarium* spp. and fumonisin synthesis in commercial maize in South Africa. 12th European *Fusarium* Seminar, Palais de la Bourse, Bordeaux, France, 12-16 May 2013 (poster presentation).

Janse van Rensburg, B., McLaren, N.W. & Flett, B.C. 2013. Effect of a prophylactic fungicide spray regime on incidence of fumonisin producing *Fusarium* spp. and fumonisins on maize in South Africa. ISM-MycoRed International Conference Europe 2013. Global Mycotoxin Reduction Strategies, Martina Franca, Apulia, Italy, 27-31 May 2013 (poster presentation).



Janse van Rensburg, B., McLaren, N.W., Flett, B.C. & Schoeman, A. 2013. Determining the risk of fumonisin producing *Fusarium* spp. and fumonisin synthesis in commercial South African maize. 10th International Congress of Plant Pathology, Beijing, China, 25-30 August 2013 (Poster presentation; published in *Acta Phytopathologica Sinica* 43, p 363).

Johansson, E., Alexandersson, E., Labuschagne, M., Jacobson, D., Vivier, M., Nguni, D., Mujaju, C., Andersson, S., Hailu, F., Mkhathya, N., Jönsson, E., Geiger, A., Weighill, D., van Biljon, A., Prieto Linde, M. & Persson Hovmalm, H. 2013. Plant breeding and genetic resources - Collaborations between SLU, South Africa and Southern Africa. The SLU Africa Food Security Research Symposium, Outcomes of a Swedish Government Initiative.

Kaufman, J., Champouret, N., Green, P., Hernandez-Pinzon, I., Wulff, B., Ward, E., Millet, E., Pretorius, Z. & Steffenson, B. 2013. Genetics of resistance to African *Pgt* races in Sharon goatgrass. 5th BGRI Technical Workshop, New Delhi, 19-22 August (poster presentation).

Kemler, M., Garnas, J., Wingfield, M.J., Gryzenhout, M., Pillay, K. & Slippers, B. 2013. Semiconductor DNA sequencing reveals high fungal diversity associated with *Eucalyptus grandis*. 48th Congress of the Southern African Society for Plant Pathology, ATKV Klein Kariba, 20-24 January 2013 (oral presentation).

Koekemoer, F.P., de Groot, S., Lesch, D., Wessels, R. & Pretorius, Z.A. 2013. Approaches to breeding for rust resistance at Sensako, South Africa. 5th BGRI Technical Workshop, New Delhi, 19-22 August (invited talk).

Labuschagne, M.T. 2013. The training of post-graduate students from various African countries in Plant Breeding: a 20 year perspective. Centre for African studies Africa Day Colloquium: researching Africa across the disciplines. 22 May 2013 (oral presentation).

Labuschagne, M.T. & van Biljon, A. 2013. The expression of gluten proteins measured by SE-HPLC and different mass spectrometer analyses following abiotic stress treatments. American Association for Cereal Chemists International Annual Conference. Albuquerque, NM, USA, 29 September - 2 October 2013 (oral presentation).

Labuschagne, M.T., Moloi, J., Steyn, C. & van Biljon, A. 2013. The effect of heat, drought and cold stress on protein composition on and some quality and Mixsmart characteristics in wheat. International Wheat Genetics Symposium. Yokohama, Japan, 8-14 September 2013 (poster presentation).



Manisterski, J., Ben-Yehuda, P., Sela, H., Millet, E., Pretorius, Z.A., Scott, J.C. & Steffenson, B.J. 2013. Identification of novel genes for resistance to African *Pgt* races in *Aegilops* spp. 5th BGRI Technical Workshop, New Delhi, 19-22 August (poster presentation).

Marsberg, A., Pillay, K., Slippers, B., Wingfield, M.J. & Gryzenhout, M. 2013. Pyrosequencing reveals higher numbers of fungal endophytes in non-native *Eucalyptus* than native relatives in South Africa. 48th Congress of the Southern African Society for Plant Pathology, ATKV Klein Kariba, 20-24 January 2013 (poster presentation).

Mavhunga, M., Koch, S., Flett, B.C. & McLaren, N.W. 2012. *Fusarium graminearum* mycotoxins associated with grain mold of maize and sorghum in South Africa. 10th International Congress of Plant Pathology, Beijing, China, 25-30 August 2013. (poster presentation; published in *Acta Phytopathologica Sinica* 43, p 361).

McLaren, N.W. 2013. Data Analysis. Workshop: Field trials design, inoculation trials & breeding strategies. Proceedings of the 48th Annual Plant Pathology Congress, ATKVKlein Kariba, Bella Bella, 20-24 January 2013 (oral presentation).

McLaren, N.W. 2013. Variation in sorghum grain mold and mycotoxins due to host genotype and environment. ISM-MycoRed International Conference Europe 2013. Global Mycotoxin Reduction Strategies, Martina Franca, Apulia, Italy, 27-31 May 2013 (oral presentation).

McLaren, N.W., van Rooyen, D. & Coetzee, L.A. 2013. Variation in sorghum grain mold and mycotoxins due to host genotype and environment. ISM-MycoRed International Conference Europe 2013. Global Mycotoxin Reduction Strategies. 27-31 May, 2013. Martina Franca, Apulia, Italy.

Millet, E., Pretorius, Z.A. & Steffenson, B.J. 2013. Introgression of resistance to African *Pgt* races from Sharon goatgrass (*Aegilops sharonensis*) into wheat. 5th BGRI Technical Workshop, New Delhi, 19-22 August (poster presentation).

Mohase, L., Taiwe, B.T. & van der Westhuizen, A.J. 2013. Aphid-derived elicitors of the Russian Wheat Aphid resistance response in wheat. Meeting of the German Phytomedical Society: Mycology and Host-Parasite Interactions, Georg-August Universität, Göttingen, Germany, 21-22 March 2013 (poster presentation).

Mohase, L., Taiwe, B.M. & Van der Westhuizen, A.J. 2013. Eliciting activity of Russian wheat aphid derived elicitors in wheat. Department of Plant Biology and Biotechnology, Münster University (WWU), Münster, Germany, 20 March 2013 (invited paper).



Muedi, H.H., McLaren, N.W. & Fourie, D. 2013. Distribution and severity of bacterial brown spot on dry beans in South Africa: An update. Proceedings of the 48th Annual Plant Pathology Congress, ATKV-Klein Kariba, Bella Bella, 20-24 January 2013 (oral presentation).

Nagel, J.H., Gryzenhout, M., Slippers, B., Wingfield, M.J., Hardy, G. E. St. J., Stukely, M.J.C. & Burgess, T.I. 2013. *Phytophthora* hybrids from ITS clade 6 are common in riparian ecosystems in South Africa and Australia. 18th Biennial Congress of the South African Society for Microbiology, Forever Resorts, Bela-Bela, 24-27 November 2013 (poster presentation).

Nagel, J.H., Slippers, B., Wingfield, M.J. & Gryzenhout, M. 2013. Multiple *Phytophthora* species associated with a riparian ecosystem in Gauteng. 48th Congress of the Southern African Society for Plant Pathology, ATKV Klein Kariba, 20-24 January 2013 (poster presentation).

Nagel, J.H., Slippers, B., Wingfield, M.J., Gryzenhout, M., Hardy, G. St. J., Stukely, M.J.C. & Burgess, T.I. 2013. Characterization of *Phytophthora* hybrids from ITS clade 6 associated with riparian ecosystems in South Africa and Australia. 48th Congress of the Southern African Society for Plant Pathology, ATKV Klein Kariba, 20-24 January 2013 (oral presentation).

Pienaar, F.C., Smit, G.N., Smit, Z.M. & du Preez, P.J. 2013. The classification, description and mapping of the vegetation of the Doornkloof Nature Reserve, Northern Cape. 48th Congress of the Grassland Society of Southern Africa (oral presentation).

Pretorius, Z.A. & Bender, C.M. 2013. Studying rust diseases in the field. Workshop at 48th Congress of the Southern African Society for Plant Pathology, Bela-Bela, 20-23 January 2013 (oral presentation).

Pretorius, Z.A. 2013. Considerations in designing field research in plant pathology. Workshop at 48th Congress of the Southern African Society for Plant Pathology, Bela-Bela, 20-23 January 2013 (oral presentation).

Pretorius, Z.A., Wessels, E., Wolmarans, K. & Prins, R. 2013. Resistance to *Pgt* race TTKSF in the wheat cv. Matlabas. 5th BGRI Technical Workshop, New Delhi, 19-22 August 2013 (poster presentation).

Prins, R., Agenbag, G.M., Pretorius, Z.A., Dreisigacker, S. & Boyd, L.A. 2013. A NorthSouth partnership identifies genetic biodiversity for durable rust resistance in African wheat genotypes. 5th BGRI Technical Workshop, New Delhi, 19-22 August 2013 (invited talk).



Rahmatov, M., Andersson, S., Wanyera, R., Steffenson, B., Rouse, M., Pretorius, Z.A., Hovmøller, M., Nazari, K. & Johansson, E. 2013. Wheat-alien chromosome addition lines for stem rust and yellow rust resistances. 5th BGRI Technical Workshop, New Delhi, 19-22 August 2013 (poster presentation).

Saaiman, J., Swart, V.R. & Marais, G.J. 2013. Fungi associated with the powdery stinkbug in pecan orchards in South Africa. 48th Congress of the Southern African Society for Plant Pathology ATKV Klein Kariba, Bela Bela, 20-24 January 2013 (oral presentation).

Saaiman, J., Swart, V.R. & Marais, G.J. 2013. The interaction between stinkbugs and fungi in pecan orchards in South Africa. XVIIIth Congress of the Entomological Society of Southern Africa. Potchefstroom, 30 June - 3 July 2013 (oral presentation).

Saba, L. & Cawood, M.E. 2013. Bioactivity and repellency of the essential oil and extracts of *Artemisia afra* against the Russian Wheat Aphid. Indigenous Plant Uses Forum (IPUF) conference, 1-5 July 2013 (oral presentation).

Schneider, S.-R., van der Merwe, N.C. & Visser, B. 2013. The influence of ESR1, TNRC9 and MAP3K1 on the expression of breast cancer in the Afrikaner BRCA2 carriers. 15th Biennial Congress of the Southern Society for Human Genetics (SASHG). 6-9 September 2013, Sandton, South Africa (poster presentation).

Scott, L. 2013. Challenges of Quaternary palaeoclimatic studies in South Africa. Quaternary climate and vegetation of southern Africa, East-West-North-South. 'Year of Science' celebrations, BPI Palaeontology / Palaeosciences Centre, Wits University, Johannesburg, 25-27 February 2013 (opening address).

Steyn, C., McLaren, N.W., Flett, B. & Minnaar-Ontong, A. 2013. Genetic variation of *Sclerotinia sclerotiorum* isolates in South Africa. 15th International Sclerotinia Workshop, Wuhan, China, 20-24 August 2013 (oral presentation).

Steyn, C., McLaren, N.W., Flett, B.C. & Minnaar-Ontong, A. 2013. Genetic variation of *Sclerotinia sclerotiorum* isolates in South Africa and resistance in soybeans. 23rd Soil Borne Diseases Interest Group, Stellenbosch, September 2013 (oral presentation).

Szabo, L.J., Visser, B., Sakthikumar, S., Johnson, J.L., Park, R.F. & Cuomo, C. 2013. Understanding the genetic landscape of *Puccinia graminis* f. sp. *tritici*, from a global to country perspective. 5th BGRI Technical Workshop, New Delhi, India, 19-22 August 2013 (oral presentation)



Terefe, T.G., Visser, B., Prins, R., Herselman, L., Negussie, T. & Pretorius, Z.A. 2013. Variation in *Puccinia triticina* on wheat in South Africa and reaction of commercial cultivars and breeding lines to recently identified races. 48th Congress of the Southern African Society for Plant Pathology, Bela-Bela, 20-23 January 2013 (oral presentation).

Terefe, T.G., Visser, B., Prins, R., Herselman, L., Negussie, T. & Pretorius, Z.A. 2013. Variation in *Puccinia triticina* on wheat in South Africa and reaction of commercial cultivars and breeding lines to recently identified races. 48th Congress of the Southern African Society for Plant Pathology, Bela-Bela, 20-23 January 2013 (poster presentation).

Terefe, T.G. & Pretorius, Z.A. 2013. Variation among *Puccinia graminis* f. sp. *tritici* isolates from wheat in South Africa, 2011 and 2012. 5th BGRI Technical Workshop, New Delhi, India, 19-22 August 2013 (poster presentation).

Van der Merwe, N.C., Combrink, H.M.V.E., Visser, B., Oosthuizen, J., Todd, C.J. & Buccamazza I. 2013. Familial breast cancer in the Indian population of South Africa. 15th Biennial Congress of the Southern Society for Human Genetics (SASHG), 6-9 September 2013, Sandton, South Africa (poster presentation).

Van der Merwe, N.C., Peter, N., Moeti, P. & Visser, B. 2013. Familial breast cancer screening of the Sotho/Tswana population of the Free State: do we have an effective testing strategy? 15th Biennial Congress of the Southern Society for Human Genetics (SASHG), 6-9 September 2013, Sandton, South Africa (poster presentation).

van der Merwe, R., van Biljon, A. & Hugo, A. 2013. Current and potential usage of soybean products as food in South Africa. 9th World Soybean Research Conference, Durban, South Africa. 17-22 February 2013 (oral presentation).

van Huyssteen, C.W., Fourie, H. & Du Preez, J. 2013. How wet is a wetland? Divisional Conference of all Commissions and Working Groups of Division I. 30 September - 5 October 2013. Ulm, Germany (oral presentation).

van Rooyen, D. & McLaren, N.W. 2013. Fungi associated with root rot of sorghum in South Africa. Proceedings of the 48th Annual Plant Pathology Congress, ATKV-Klein Kariba, Bella Bella, 20-24 January 2013 (oral presentation).

Visser, B., Herselman, L. & Pretorius, Z.A. 2013. SSR analysis of herbarium specimens of *Puccinia graminis* f. sp. *tritici* in South Africa. 5th BGRI Technical Workshop, New Delhi, India, 19-22 August 2013 (poster presentation).

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Wolmarans, K., Boshoff, W.H.P., Prins, R. & Pretorius, Z.A. 2013. Genetics of stem rust resistance in the wheat cultivar Matlabas. 48th Congress of the Southern African Society for Plant Pathology, Bela-Bela, 20-23 January 2013 (oral presentation).