



Plant Sciences

Conference Contributions 2016

Adendorff, J., Jankielsohn, A., Louw SvdM. & Mohase, L. 2016. *AlexinTM-treated wheat cultivars display more tolerance and antibiosis towards two South African Russian wheat aphid*

(*Diuraphis noxia*) biotypes. Paper delivered at the Joint conference of the South African Association of Botanists (SAAB) and the Southern African Society for Systematic Biology (SASSB), University of the Free State, Bloemfontein, South Africa.

Allemann, I., Cawood, M.E. & Allemann, J. 2016. *Effect of temperature stressed Amaranthus cruentus residues and extracts on vegetable seed germination and seedling growth.* Paper delivered at the South African Weed Science Society Conference, University of the Free State, Bloemfontein, South Africa.

Allemann, I., Cawood, M.E. & Allemann, J. 2016. *Influence of abiotic stress on Amaranthus cruentus allelopathic properties.* Paper delivered at Joint conference of the South African Association of Botanists (SAAB) and the Southern African Society for Systematic Biology (SASSB), University of the Free State, Bloemfontein, South Africa.

Castelyn, H.D., Boyd, L.A., Ereful, E., Visser, B. & Pretorius, Z.A. 2016. *Evaluating nextgeneration sequencing platforms for the transcriptomic analysis of stem rust infected adult wheat plants.* Poster presented at the European Molecular Biology Laboratory-European Bioinformatics Institute (EMBL-EBI) Bioinformatics training workshop, Cambridge, UK.



Cawood, M.E. & van Rensburg, W.J. 2016. *Anticoagulant activities of Rooibos tea extracts*. Poster presented at the Joint conference of the South African Association of Botanists (SAAB) and the Southern African Society for Systematic Biology (SASSB), University of the Free State, Bloemfontein, South Africa.

Craven, M., Smith, K., Berner, J. & McLaren, N.W. 2016. *Evaluation of fungicides for growth regulating properties on sorghum*. Poster presented at the in Proceedings of the Combined Crops, Soils, Horticulture and Weeds Congress, Bloemfontein.

De Gouveia, A., Jackson, M. & Joubert, L. 2016. *Leaf micromorphology and cystoliths of southern Africa *Crabbea* (Acanthaceae)*. Poster presented at the Joint conference of the South African Association of Botanists (SAAB) and the Southern African Society for Systematic Biology (SASSB), University of the Free State, Bloemfontein, South Africa.

Greyling, S.-M., Schoeman, A., Flett, B., McLaren, N.W. & Janse van Rensburg, B. 2016

Distribution of the Fusarium graminearum species complex (FGSC) and its mycotoxins in South

African maize. Poster presented at the 9th World Mycotoxin Forum and XIVth International Symposium on Mycotoxins, Winnipeg, Canada.

Janse van Rensburg, B., Ramaswe, J.B., Flett, B.C., McLaren, N.W. & Schoeman, A. 2016.

The effect of maize plant density and water availability on fumonisin producing Fusarium spp. infection and fumonisin synthesis. Poster presented at the 9th World Mycotoxin Forum and XIVth International Symposium on Mycotoxins, Winnipeg, Canada.



Keet, J.H., Jackson, M., Cindi, D., Du Preez, P.J. & Visser B. 2016. *Identification of naturalized and cultivated Berberis species in South Africa.* Poster presented at the Joint conference of the South African Association of Botanists (SAAB) and the Southern African Society for Systematic Biology (SASSB), University of the Free State, Bloemfontein, South Africa.

Maré, A., Castelyn H., Pretorius, Z. & Herselman, L. 2016. *Development of wheat lines with complex resistance to rusts and Fusarium head blight.* Paper delivered at the 11th SAPBA Symposium, Protea Hotel Technopark, Stellenbosch.

Masupha, P., Mohase, L. & Jankielsohn, A. 2016. *Factors affecting the production of wheat (Triticum aestivum L) in Mokhotlong and Thaba-Tseka in Lesotho.* Paper delivered at the Joint conference of the South African Association of Botanists (SAAB) and the Southern African Society for Systematic Biology (SASSB), University of the Free State, Bloemfontein, South Africa.

McLaren, N.W., Coetzee, L.A. & van Rooyen, D. 2016. Sorghum root and grain diseases associated with legume rotation systems. Paper delivered at the 26th Soilborne Plant Diseases Symposium, 2016, Stellenbosch.

Meyer, J.B., Fourie, P.H., McLaren, N.W. & Schutte, G.C. 2016. *Determining ascospore release of Phyllosticta spp. in different citrus production areas of South Africa.* Poster presented at the 9th **Citrus Research Symposium**, Champagne Sports Resort.



Mwenye, O., Van Rensburg, L. & Van der Merwe, R. 2016. *Association of grain yield, drought tolerance indices and proline accumulation in selection for drought stress tolerance in soybean.* Poster presented at the 20th Eucarpia General Conference, Swiss Federal Institute of Technology (ETH), Zurich, Switzerland.

Potgieter, G.P. 2016. *Evaluation of Trichoderma's bio-catalytic potential on growth, chlorophyll content and photosynthetic efficiency in nitrogen stressed spinach plants.*

Paper delivered at the

Joint conference of the South African Association of Botanists (SAAB) and the Southern African Society for Systematic Biology (SASSB), University of the Free State, Bloemfontein, South Africa.

Pretorius, H.P. & Potgieter, G.P. 2016. *The ability of a novel compound to enhance the effect of urea on nitrogen deficient tomatoes.* Paper delivered at the Joint

conference of the South

African Association of Botanists (SAAB) and the Southern African Society for Systematic Biology (SASSB), University of the Free State, Bloemfontein, South Africa.

Pretorius, Z.A. 2016. *Five critical concepts in breeding for rust resistance.* Invited keynote paper delivered at the 11th SAPBA Symposium, Protea Hotel Technopark, Stellenbosch.



Prins, R., Dreisigacker, S., Pretorius, Z., Wessels, E., van Schalkwyk, H., Smit, C., Bender, C., Singh, D. & Boyd, L. 2016. *QTL validation of marker-trait associations in a diverse panel of African wheat*. Poster presented at the 11th SAPBA Symposium, Protea Hotel Technopark, Stellenbosch.

Richter, J.M. & Cawood, M.E. 2016. *Chromatographic profiling of constituents in extracts from intact silverleaf nightshade plants and damaged by Leptinotarsa texana (Schaeffer)*. Paper delivered at the International Conference of Entomologists in Orlando, Florida, USA.

Smit, C., Pretorius, Z.A., Wessels, E., Bender, C.M., Knight, V., Boshoff, W.H.P. & Prins, R. 2016. *Genetic analysis of stripe rust resistance in the wheat line NRSPan4*. Poster presented at the 11th SAPBA Symposium, Protea Hotel Technopark, Stellenbosch.

Terefe, T., Visser, B. & Pretorius, Z.A. 2016. *Variation in Puccinia triticina collected from wheat and triticale in South Africa*. Poster presented at the in Proceedings of the Combined Crops, Soils, Horticulture and Weeds Congress, Bloemfontein.

van Aardt, A.C., Scott, L. & du Preez, P.J. 2016. *Western Free State vegetation ecology: From past to present*. Paper delivered at the Joint conference of the South African Association of Botanists (SAAB) and the Southern African Society for Systematic Biology (SASSB), University of the Free State, Bloemfontein, South Africa.

Van der Merwe, R., Smit, A., Smit, M. & Labuschagne, M.T. 2016. *Grain yield potential and stability of large-seeded vegetable type soybean genotypes*. Paper presented at the 20th Eucarpia General Conference, Swiss Federal Institute of Technology (ETH), Zurich, Switzerland.



Van der Merwe, R., Smit, A., Smit M. & Labuschagne, M.T. 2016. *Yield potential and stability of vegetable-type soybean genotypes*. Poster presented at the 11th SAPBA Symposium, Protea Hotel Technopark, Stellenbosch.

Van Schalkwyk, H.J., Prins, R., Pretorius, Z.A., Boyd, L.A., Uauy, C. & Saunders, D.G.O.

2016. *Pathogenomics of South African stripe rust in a global context*. Paper delivered at the 11th SAPBA Symposium, Protea Hotel Technopark, Stellenbosch.

Van Schalkwyk, H.J., Prins, R., Pretorius, Z.A. Boyd, L.A. Uauy, C. & Saunders, D.G.O.

2016. *Pathogenomic analysis of South African stripe rust populations*. Paper presented at the International Society for Molecular Plant-Microbe Interactions XVII, Portland, Oregon, USA.

Visser B., Terefe T.G., Herselman L. & Pretorius Z.A. 2016. *Ten years of genotypic analysis of the three wheat rusts in southern Africa*. Paper delivered at the 11th SAPBA Symposium, Protea Hotel Technopark, Stellenbosch.

Westcott, M., Marais, G., Potgieter, G.P., Berner, J.M. & Ferreira, K. 2016. *Effects of two plant growth promoters on photosynthetic capacity in Citrus spp.* Poster presented at the Joint conference of the South African Association of Botanists (SAAB) and the Southern African Society for Systematic Biology (SASSB), University of the Free State, Bloemfontein, South Africa.

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Zurn, J.D., Rouse, M.N., Chao, S., Aoun, M., Macharia, G., Pretorius, Z.A., Bonman, J.M. & Acevedo., M. 2016. *Identification of stem rust resistance genes in wheat landrace PI362698.*

Poster presented at the American Pathological Society Rust Symposium, Florida, USA.