



Plant Sciences - Research outputs 2009

Research articles

Botha, C., McLaren, N.W. & Swart, W.J. 2009. Evaluation of greenhouse inoculation techniques used to screen for Sclerotinia stem rot resistance in soybeans. *South African Journal of Plant and Soil* 26(1): 48-50.

Brand, R.F., du Preez, P.J. & Brown, L.R. 2009. A classification and description of the shrubland vegetation on Platberg, Eastern Free State, South Africa. *Koedoe* 51(1): 90-100.

Chase, B.M., Meadows, M.E., Scott, L., Thomas, D.S.G., Marais, E., Sealy, J. & Reimer, P.J. 2009. A record of rapid Holocene climate change preserved in hyrax middens from southwestern Africa. *Geology* 37(8): 703-706.

Coetzee, R., Herselman, L. & Labuschagne, M.T. 2009. Genetic diversity analysis of kanaf (*Hibiscus cannabinus* L.) using AFLP (amplified fragment length polymorphism) markers. *Plant Genetic Resources: Characterization and Utilization* 7(2): 122-126.

Dessaiegn, Y., Herselman, L. & Labuschagne, M. 2009. Comparison of SSR and AFLP analysis for genetic diversity assessment of Ethiopian arabica coffee genotypes. *South African Journal of Plant and Soil* 26(2): 119-125.

Grobbelaar, J.U. 2009. Factors governing algal growth in photobioreactors: the “open” versus “closed” debate. *Journal of Applied Phycology* 21: 489-492.



Grobbelaar, J.U. 2009. From laboratory to commercial production: a case study of a *Spirulina (Arthrospira)* facility in Musina, South Africa. *Journal of Applied Phycology* 21: 523-527.

Grobbelaar, J.U. 2009. Upper limits of photosynthetic productivity and problems of scaling. *Journal of Applied Phycology* 21: 519-522.

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Kawuki, R.S., Ferguson, M., Labuschagne, M.T., Herselman, L. & Kim, D.-J. 2009. Identification, characterisation and application of single nucleotide polymorphisms for diversity assessment in cassava (*Manihot esculenta* Crantz). *Molecular Breeding* 23: 669-684.

Kena, M. & Swart, W.J. 2009. Microbial activity and fungal composition of composted animal manure suppressive to soil-borne pathogens. *Lesotho Journal of Agricultural Sciences* 2:1-19.

Labuschagne, M.T., Elago, O. & Koen, E. 2009. Influence of extreme temperatures during grain filling on protein fractions, and its relationship to some quality characteristics in bread, biscuit, and durum wheat. *Cereal Chemistry* 86(1): 61-66.



Labuschagne, M.T., Elago, O. & Koen, E. 2009. The influence of temperature extremes on some quality and starch characteristics in bread, biscuit and durum wheat. *Journal of Cereal Science* 49: 184-189.

Liu, Y. & Labuschagne, M.T. 2009. The influence of environment and season on stalk yield in kenaf. *Industrial crops and products* 29: 377-380.

Marais, F., Marais, A., McCallum, B. & Pretorius, Z. 2009. Transfer of lead rust and stripe rust resistance genes *Lr62* and *Yr42* from *Aegilops neglecta* Req. ex Bertol. to common wheat. *Crop Science* 49: 871-879.

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Nunkumar, A., Caldwell, P.M. & Pretorius, Z.A. 2009. Development of *Phakopsora pachyrhizi* on soybean at controlled temperature, relative humidity and moisture periods. *South African Journal of Plant and Soil* 26(4): 225-230.

Rossouw, L., Stynder, D.D. & Haarhof, P. 2009. Evidence for opal phytolith preservation in the Langebaanweg 'E' Quarry Varswater formation and its potential for palaeohabitat reconstruction. *South African Journal of Science* 105: 223-227.



Solomon, K.F. & Labuschagne, M.T. 2009. Morpho-physiological response of durum wheat genotypes to drought stress. *South African Journal of Plant and Soil* 26(3): 141-156.

Swart, W.J. 2009. Strategies for the management of cactus pear diseases: A global perspective. *Acta Horticulturae* (ISHS) 811: 207-216.

Tesfaendrias, M.T., McLaren, N.W. & Swart, W.J. 2009. The effect of grain mould fungi on sorghum malt quality and its management during malting. *South African Journal of Plant and Soil* 26(1): 45-47.

Venter, H.J.T. 2009. A taxonomic revision of *Raphionacme* (Apocynaceae: Periplocoideae). *South African Journal of Botany* 75: 292-350.

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Venter, H.J.T. & Verhoeven, R.L. 2009. Morphology and taxonomy of *Baseonema* and *Batesanthus* (Apocynaceae: Periplocoideae). *South African Journal of Botany* 75: 445-455.

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Book chapters

Grobbelaar, J.U. 2009. Turbidity. In: Ecyclopedia of Inland Freshwaters, G.E. Likens (Ed.). Elsevier Ltd. 699 – 704.

Rossouw, J.D., Pretorius, Z.A., Silva, H.D. & Lamkey, K. 2009. Breeding for resistance to *Stenocarpella* ear rot in maize. Pages 223-245 in: Plant Breeding Reviews Vol 31, ed. J. Janik, Wiley-Blackwell.