

Short CV Maryna de Wit

Name: Maryna de Wit

Date of Birth: 1973-12-08

Position title: Senior lecturer

Education: Ph.D. Food Science, 2003, University of the Free State, South Africa

A) Positions

Position and employment:

Senior lecturer and researcher in Food Science Division: Plant processing

Professional memberships:

SASDT (South African Society of Dairy Technology) member

SAAFoST (South African Association of Food Science and Technology) Professional member

SASHS (South African Society of Horticultural Science) member

FAO-ICARDA CactusNet [Food and Agricultural Organization (FAO) of the United Nations (UN) and International Center for Agricultural Research in the Dry Areas (ICARDA) and International Technical Cooperation Network on Cactus Pear (Cactusnet)] **board member** for Agro-processing and post-harvest management

SA cactus network board member

Nu-Grain SA member

Research support:

TIA (Technology and Innovation Agency)

UFS Seed Fund

ARC-UFS-DUT Collaborative Consortium: (Commodity group leader: Cactus pears)

DETEA (Department of Economic Development, Tourism and Environmental Affairs)

B) Publications

Peer reviewed scientific publications:

The effect of variety and location on cactus pear (*Opuntia ficus-indica*) fruit quality

De Wit, M., Nel, P., Osthoff, G. and Labuschagne, M.

2010

Plant Foods for Human Nutrition 65(2):136-145.

DOI 10.1007/s11130-010-0163-7

link.springer.com/article/10.1007/s11130-010-0163-7

Determination of seasonal influences on sensory attributes of South African cactus pear cultivars

Rothman, M., de Wit, M., Bothma, C. and Hugo, A.

2011

Journal of the Professional Association for Cactus Development 14: 41-52.

www.jpacd.org/downloads/Vol14/05-MRothamnJPACD14.pdf

The influence of cultivar and season on cactus pear fruit quality

Rothman, M., De Wit, M., Hugo, A. and Fouché, H.J.

2013

Acta Horticulturae Volume 995: 201-212.

www.actahort.org/books/995/995_23.htm

Thermal treatment, Jelly processing and sensory evaluation of cactus pear fruit juice

de Wit, M., Bothma, C., Swart, P., Frey, M. and Hugo, A.

2014

Journal of the Professional Association for Cactus Development 16: 1-14.

www.jpacd.org/downloads/Vol16/1_JPACD_2014_16_1-14_De_Wit_et_al.pdf

The effect of genotype, location and season on the lipid content and lipid composition of cactus pear (*Opuntia ficus-indica*) seed

De Wit, M., Shongwe, N.C. and Hugo, A.

2015

Acta Horticulturae 1067: 173-179.

www.actahort.org/books/1067/1067_23.htm

Effect of cultivar, season and locality on lipid content and fatty acid composition of cactus pear seed oil

De Wit, M., Hugo, A., Shongwe, N. and van der Merwe, R.

2016

South African Journal of Plant and Soil 33(4): 279-288.

www.tandfonline.com/doi/abs/10.1080/02571862.2016.1141335

Quality Assessment of Seed Oil from Selected Cactus Pear Cultivars (*Opuntia ficus-indica* and *Opuntia robusta*) (Article in press)

De Wit, M., Hugo, A. and Shongwe, N.

2016

Journal of Food Processing and Preservation

onlinelibrary.wiley.com/doi/10.1111/jfpp.12898/abstract

onlinelibrary.wiley.com/doi/10.1111/jfpp.12898/pdf

Physico-chemical and sensory evaluation of cactus pear (*Opuntia ficus-indica* L. Mill and *Opuntia robusta* wendl) cladode flour in different baked products

De Wit, M., Bothma, C., Hugo, A., Sithole, T., Absalom, C. and van den Berg, C.

2015

Journal of the Professional Association for Cactus Development 17: 89-106.

www.jpacd.org/downloads/Vol17/07-PACD17_Dewit.pdf

Replacement of gelatine with liquid *Opuntia ficus-indica* mucilage in marshmallows. Part 1: Physical parameters

2016

Journal of the Professional Association for Cactus Development 18: 25-39.

L. Du Toit, C. Bothma, M. De Wit, and A. Hugo 2016

Replacement of gelatine with *Opuntia ficus-indica* mucilage in marshmallows. Part 2: Consumer liking of mucilage-containing marshmallow versus control and a commercial brand

2016

L. Du Toit, C. Bothma, M. De Wit, and A. Hugo

Journal of the Professional Association for Cactus Development 18: 40-51.

Antioxidant content and capacity of fruit from different colour cactus pear (*O. ficus-indica* and *O. robusta*) cultivars

Du Toit, A., De Wit, M., Osthoff, G. and Hugo, A.

2015

Acta Horticulturae 1067: 187-192.

www.actahort.org/books/1067/1067_25.htm

The suitability of cactus pear cladodes (*Opuntia ficus-indica* L. Mill and *O. robusta* Wendl) for the processing of a health juice beverage: a sensory evaluation.

Submitted

M. de Wit, C. Muller, A. du Toit, C. Bothma and A. Hugo

Journal of the Professional Association for Cactus Development

Popular publications:

A perspective on South African spineless cactus pear: research and development: an overview

Maryna de Wit and Herman Fouche

In: De Waal, HO; Louhaichi, M; Taguchi, M; Fouche, HJ; De Wit, M. 2015. Development of a cactus pear agro-industry for the sub-Saharan African Region. Proceedings of International Workshop, University of the Free State, Bloemfontein, South Africa, 27-28 January 2015. 96 pp.

Cactusnet Newsletter Special Issue 14 January 2015