



Regina Cornelia (Corli) Witthuhn

CURRICULUM VITAE

November 2012

1. PERSONAL PARTICULARS

1.1 Work Address

Office of the Dean: Faculty of Natural and Agricultural Sciences
 Room 10, Biology Building
 University of the Free State
 PO Box 339
 Bloemfontein
 9300
 South Africa

Tel: +27-51-401 9010
 Fax: +27-51-401 3728
 Cell: +27-73 141 0941
 E-mail: witthuhnrc@ufs.ac.za

1.2 Home Address

Residential:
 Enkalweni
 Rayton Ridge Road
 Rayton
 Bloemfontein

Postal:
 PO Box 11989
 Universitas
 9322

1.3 Personal Particulars

I was born on the 16th of May 1969 in Bloemfontein (43 years old), Free State Province, South Africa and matriculated in 1987 from Oranje Girls' High School, Bloemfontein. I married Leon Witthuhn on the 21st of March 1997 and I have two sons, Leon (born on the 29th of September 2000) and Joubert (born on the 31st of May 2002).

South African Identity Number: 6905160076083

1.4 Employment History

August 2011 – current	Professor and Vice Dean, Faculty of Natural and Agricultural Sciences, Free State University, Bloemfontein, South Africa
February 2009 – July 2011	Vice Dean, Faculty of AgriSciences, Stellenbosch University, Stellenbosch, South Africa
April 2007 – July 2011	Associate Professor, Department of Food Science, Stellenbosch University, Stellenbosch, South Africa

February 2006 – February 2009	Departmental Chair, Department of Food Science, Stellenbosch University, Stellenbosch, South Africa
February 2005 – February 2006	Acting Departmental Chair, Department of Food Science, University of Stellenbosch, Stellenbosch, South Africa
January 2003 – March 2007	Senior Lecturer, Department of Food Science, Stellenbosch University, Stellenbosch, South Africa
January 1999 – December 2002	Lecturer, Department of Food Science, University of Stellenbosch, Stellenbosch, South Africa
1 May 1997 – 31 July 1998	Part-time Physical Science and Biology teacher at Eunice Girls' High School, Bloemfontein

National Research Foundation (NRF), South Africa Rating: C2 obtained November 2011.

1.5 Education

- 1995 - 1998: University of the Free State, Bloemfontein, South Africa
Degree: PhD, January 1999
Dissertation: **Molecular taxonomy and mating type genes in *Ceratocystis sensu stricto***
- 1992 - 1993: University of the Free State, Bloemfontein, South Africa
Degree: MSc, December 1993
Dissertation: **Molecular characterisation of isolates of *Leptographium wagneri* and *Leptographium lundbergii***
- 1992: Classical Cultural Studies II
Political Science I
- 1993: Economics I
- 1991 University of the Free State, Bloemfontein, South Africa
Degree: BScHon (Microbiology), December 1991
Report: **Restriction Fragment Length Polymorphism of *Leptographium lundbergii* and *L. truncatum***
- 1988 - 1990: University of the Free State, Bloemfontein, South Africa
Degree: BSc, December 1990
Majors: Microbiology and Chemistry

1.6 Teaching Experience

I was responsible for the development of the course material and practical for the Food Science modules *Analysis of Food Products* (VW488 (previously VW414 and VW444) = 32 credits) and *Food Safety* (VW484 (previously VW354) = 16 credits). Active Web-CT pages were also developed for both the modules. The number of fourth year students registered for the two Food Science modules in 2008 was *ca.* 40 per module.

- 1.6.1 **2005 - 2009** – Analysis of Food Products (VW488) fourth year BSc Food Science (first and second semester)

- 1.6.2 **2007 - 2009** – Food safety component (one third of the module) of VW434 fourth year BSc Food Science (first semester)
- 1.6.3 **2003 - 2006** - Food safety (VW484) fourth year BSc Food Science (first and second semester)
- 1.6.4 **2001 - 2004** - Analysis of Food Products (VW414) fourth year BSc Food Science (first semester)
- 1.6.5 **2001 - 2004** – Advanced analysis of Food Products (VW444) fourth year BSc Food Science (second semester)
- 1.6.6 **2001 - 2002** – Food safety (VW354) third year BSc Food Science (second semester)
- 1.6.7 **1999 – 2000** – Food Preservation (VW241) second year BSc Food Science (second semester)
- 1.6.8 **1999 - 2003** – Honours Biotechnology course
- 1.6.9 **2000 - 2001** – Honours course on Ethnological Nutritional Habits
- 1.6.10 **April – May 2000** – Product development (VW474) fourth year BSc Food Science
- 1.6.11 **1996 - 1998** - Lectures to Microbiology honours students on Fungal Molecular Systematics
- 1.6.12 **April 1998** - Lecture to Microbiology honours students on fungal mating types
- 1.6.6 **1996 - 1997** - Presentation of the practical course in Molecular Biology to third year Microbiology (MKB 334) students
- 1.6.7 **February 1997** - Lecture to the third year Microbiology (MKB 334) students on gene expression in eucaryotes
- 1.6.8 **1995** - Presentation of the practical course in general Microbiology (MKB 124) to the first year Agriculture students
- 1.6.9 **1991 - 1993** - Demonstrator for the practical course in Molecular Biology to third year Microbiology (MKB 334) students
- 1.6.10 **1991** – Demonstrator for the practical course in general Microbiology (MKB 265) to second year nursing students
- 1.6.11 **1992 – 1993** - Demonstrator for the practical course in general Microbiology (MKB 124) to first year Agriculture students

1.7 Awards and Bursaries

1.7.1 Stellenbosch University:

Rector's Award for Outstanding Service, November 2010

1.7.2 FoodMicro 2008, 21st International ICFMH Symposium:

Prize awarded to Michelle Cameron by the Society for Applied Microbiology for the best student poster at the congress. Cameron, M. and R.C. Witthuhn. 2008. The use of DNA-intercalating dyes to allow PCR detection of only viable probiotic cells. FoodMicro 2008, 21st International ICFMH Symposium, 30 August – 4 September 2008, Aberdeen, Scotland.

1.7.3 International Foundation for Science (IFS), Sweden:

Full sponsorship to attend the FoodMicro2006 congress (20th International ICFMH Symposium) in Bologna, Italy, 29 August – 2 September 2006 to establish networks with recent IFS grantees.

1.7.4 Foundation for Research Development (FRD):

Travel Grants – 1996 and 2005

Doctoral Bursary 1995 - 1997

Masters Bursary 1992 - 1993

Honours Bursary 1991

1.7.5 Federation of European Microbiological Societies (FEMS):

Young Scientist Grant 2001

1.7.6 3rd International Symposium on Propionibacteria:

Third prize in the poster competition, 3rd International Symposium on Propionibacteria, Zurich, Switzerland (8 – 11 July 2001)

1.7.7 United Nations Education, Science and Culture Organisation (UNESCO):

Short term fellowship - 1996

1.7.8 American Pathological Society (APS):

Best student oral presentation, American Pathological Society (APS) Meeting, Indianapolis, Indiana, USA (27 - 31 July 1996)

1.8 International Research Experience

1.8.1 **March – April 2000** – Performed scientific research in the laboratory of Prof. Henk van Verseveld, Department Cell Physiology/Microbial Eco-Physiology, Vrije Universiteit, Amsterdam, The Netherlands.

1.8.2 **August 1996 - January 1997** - Performed scientific research in the laboratory of Prof. Tom Harrington, Department of Plant Pathology, Iowa State University, Ames, Iowa, USA.

1.9 Membership of Scientific Societies

1.9.1 2010 – 2011 – Member of the Society for Applied Microbiology (SfAM)

1.9.2 1999 – 2012 - Member of the South African Association of Food Science and Technology (SAAFoST)

1.9.2 2007 – 2012 – Member of the South African Society for Dairy Technology (SASDT)

1.9.3 1991 - 2008 - Member of the South African Society for Microbiology (SASM)

1.9.4 2005 - 2006 – Member of the American Society for Microbiology (ASM)

1.9.5 1991 - 1998 - Member of the South African Society for Plant Pathology (SASPP)

1.9.6 1996 - 1997 - Member of the Mycology Society of America (MSA)

1.9.7 1998 - Member of the British Mycological Society (BMS)

1.9.8 1995 - 1998 - Member of SAWise

1.9.9 1991 - 1998 - Member of the Microbiology and Biochemistry Student Society (MBSS), Department of Microbiology and Biochemistry, UOFS, Bloemfontein

1994 - Initiated the “Wacky Talks”, a lecture series to expose Microbiology and Biochemistry students to a wide range of scientific and other interests.

1995 – 1996 - Chairperson of the MBSS, during which the society received the award for the best academic society on the UFS campus (September 1996).

1996 - Editor of the Annual of the MBSS, The Acta Diurna.

1.10 Study leader and host for post-graduates

1.10.1 Post-doctoral fellows:

1. Dr Michelle Cameron (2007 – 2011)

2. Dr Laisve Lideikyte (2010 – 2011)

1.10.2 Completed:

PhD degrees:

1. D-M. Cawthorn (2011). *Establishment of a genetic database and molecular methods for the identification of fish species available on the South African market*. Promotor: R.C. Witthuhn, Co-promotor: H.A. Steinman.
2. D. Van Schalkwyk (2011). *Investigation into selected parameters required to develop a sustainable Namibian game meat industry*. Promotor: L.C. Hoffman, Co-promotor: R.C. Witthuhn.
3. W.H. Groenewald (2009). *Taxonomy of species of Alicyclobacillus from South African orchards and fruit concentrate manufacturing environments and the prevention of fruit juice contamination*. Promotor: R.C. Witthuhn, Co-promotor: P.A. Gouws.
4. C. Lamprecht (2009). *UASB granulation enhancement by microbial inoculum selection and process induction*. Promotor: T.J. Britz, Co-promotor: R.C. Witthuhn.
5. A. Dalton (2006). *Development and effect of an n-3 fatty acid rich spread on the nutritional and cognitive status of school children: a randomised controlled trail*. Promotor: C.M. Smuts, Co-promotors: R.C. Witthuhn, P. Wolmarans.
6. M. Keyser (2006). *PCR detection, denaturing gradient gel electrophoresis (DGGE) fingerprinting and identification of the microbial consortium in different types of UASB granules*. Promotor: R.C. Witthuhn, Co-promotor: T.J. Britz.

MSc degrees:

1. I.M. Bester (*cum laude*) (2011). *Detection and molecular subtyping of Listeria monocytogenes isolated from a South African avocado processing facility*. Study leader: R.C. Witthuhn, Co-study leader: M. Cameron.
2. A. Strydom (*cum laude*) (2011). *Phylogeny and molecular identification of Cronobacter strains isolated from South African food products*. Study leader: R.C. Witthuhn, Co-study leader: M. Cameron.
3. E. van der Merwe (2011). *Identification of precursors present in fruit juice that lead to the production of guaiacol by Alicyclobacillus acidoterrestris*. Study leader: R.C. Witthuhn, Co-study leader: P. Venter, M. Cameron.
4. C.E. Steyn (*cum laude*) (2011). *Evaluation of the distribution and accumulation of species of Alicyclobacillus in the fruit concentrate processing environment*. Study leader: R.C. Witthuhn, Co-study leader: M. Cameron.
5. Y. Smit (*cum laude*) (2009). *Growth and guaiacol production of species of Alicyclobacillus isolated from the South African fruit processing environment*. Study leader: R.C. Witthuhn, Co-study leader: P. Venter.
6. H. Arthur (2009). *Bioactivity and microbial content of Lippia multiflora leaves, a herbal tea from Ghana*. Study leader: R.C. Witthuhn, Co-study leader: E. Joubert.
7. L. Bester (2009). *Detection and identification of wine spoilage microbes using PCR-based DGGE analysis*. Study leader: R.C. Witthuhn, Co-study leader: M. du Toit.
8. M. du T. Lombard (2008). *Development of three microbiologically safe, sensory acceptable food products as possible supplements to the diet of undernourished children (5 - 6 years)*. Study leader: R.C. Witthuhn, Co-study leader: A. Dalton.

9. D-M. Cawthorn (*cum laude*) (2007). *Detection, identification and live/dead differentiation of the emerging pathogen Enterobacter sakazakii from infant formula milk and the processing environment*. Study leader: R.C. Witthuhn.
10. L. Siebrits (2007). *PCR-based DGGE identification of bacteria and yeasts present in South African grape must and wine*. Study leader: R.C. Witthuhn, Co-study leaders: P. van Rensburg and M. du Toit.
11. J. Powell (2006). *Bacteriocins and bacteriocin producers present in Kefir and Kefir grains*. Study leader: R.C. Witthuhn, Co-study leader: L.M.T. Dicks.
12. W. Duvenage (2006). *Detection and isolation of thermophilic acidophilic bacteria from fruit juices*. Study leader: R.C. Witthuhn, Co-study leader: PA Gouws.
13. L. Sadie (2005). *Characterisation of "glassiness" in commercially processed French fried potatoes*. Study leader: R.C. Witthuhn, Co-study leaders: M. Manley & A. Dalton.
14. F. Kemp (2005). *Detection of Enterobacter sakazakii in South African food products*. Study leader: R.C. Witthuhn, Co-study leader: T.J. Britz.
15. J. Theunissen (2004). *Identification of probiotic microbes from South African products using PCR-based DGGE analyses*. Study leader: R.C. Witthuhn, Co-study leader: T.J. Britz.
16. P. Dumalisile (2004). *Impact of processing temperatures on survival of microbial contaminants from pasteurised milk*. Study leader: T.J. Britz, Co-study leader: R.C. Witthuhn.
17. A. Latsky (2004). *Lab-scale optimisation of Kefir beverage production from mass-cultured and freeze-dried Kefir grains*. Study leader: R.C. Witthuhn, Co-study leader: T.J. Britz.
18. M. Cronjé (*cum laude*) (2003). *Production of Kefi grains using pure cultures as starters*. Study leader: T.J. Britz, Co-study leader: R.C. Witthuhn.
19. N.P. Uusiku (2003). *PCR detection of Propionibacteria incorporated into mass-cultured Kefi grains*. Study leader: R.C. Witthuhn, Co-study leader: T.J. Britz.
20. I-M. Garbers (2003). *PCR-based DGGE typification of the microbial community of Kefi grains*. Study leader: R.C. Witthuhn, Co-study leader: T.J. Britz.
21. A. Cilliers (2001). *Influence of different preservation techniques and packaging materials on the activity of stored Kefi grains*. Study leader: T.J. Britz, Co-study leader: R.C. Witthuhn.
22. S. Schepers (2001). *Anti-microbial activity of rooibos tea (Aspalathus linearis) on food spoilage organisms and potential pathogens*. Study leader: T.J. Britz, Co-study leaders: R.C. Witthuhn, E. Joubert.
23. T. Schoeman (2001). *Characterisation and identification of the active microbial consortium present in Kefi grains*. Study leader: R.C. Witthuhn, Co-study leader: T.J. Britz.
24. C.J. Spengler (2001). *PCR-based RFLP typification of microbes used in the production of a fermented fish product*. Study leader: R.C. Witthuhn, Co-study leader: T.J. Britz.
25. S. Engelbrecht (2000). *Microbial content, stability and inhibitory effects of antimicrobials on the shelf-life of high moisture dried fruit*. Study leader: T.J. Britz, Co-study leaders: R.C. Witthuhn & E. Joubert.

1.10.3 Current post-graduate students:

1. Ms. Custodia Macuamule – PhD (Promotor)
2. Ms. Amy Strydom – PhD (Promotor)
3. Mr. Oluwafemi Caleb – PhD (Co-promotor)

4. Ms. Georgina Kutaa – MSc (Study leader)
5. Ms. Rene Vorster – MSc (Study leader)
6. Ms. Leoni Schutte – MSc (Study leader)
7. Ms. Elzaan Singels – MSc (Co-study leader)

1.10.3 Visiting scholars

Ms. Victoria Ndolo, University of Malawi. Visiting scientist for a 6 month period (February 2010 – July 2010) as part of the AWARD programme.

Ms. Naledi Mutukwa, Botswana National Veterinary Laboratory. Visiting scientist for a period of 3 months (September – December 2010) sponsored by the International Atomic Energy Agency.

Mr. Itseng Saudu, Botswana National Veterinary Laboratory. Visiting scientist for a period of 3 months (September – December 2010) sponsored by the International Atomic Energy Agency.

1.11 Invited Lectures:

- 1.11.1 R. C. Witthuhn (2009). Women in Academia. Girlz just wanna have PHUN: celebrating women in science, iThemba labs, Somerset West, 25 October 2009.
- 1.11.2 R. C. Witthuhn (2009). *Alicyclobacillus*, fruit juice spoilage microbes in the South African processing environment. SFG/IRMA Conference, Erinvale Hotel, Somerset West, 20 April 2009.
- 1.11.3 R. C. Witthuhn (2006). *Enterobacter sakazakii* – contamination of infant formula milk. South African Society of Dairy Technology. Dairy Symposium 2006. Villa Via Hotel, Gordons Bay, 25 & 26 April 2006.
- 1.11.4 R. C. Witthuhn (2005). Identification of probiotic organisms in South African products in 2003. Prebiotics and probiotics, nature's friendly bacteria: an old idea with new marketing possibilities. One day symposium presented by the SAAFoST Northern Branch, Volkswagen Conference Centre, Midrand, 2 November 2005.
- 1.11.5 R. C. Witthuhn (2003). Food Safety. Department of Consumer Science, Stellenbosch University, 17 April 2003.
- 1.11.6 R. C. Witthuhn (2003). Kefir, the champagne of fermented milks. Institute for Wine Biotechnology, Stellenbosch University, 8 Oktober 2003.

2. SCIENTIFIC PUBLICATIONS

2.1 SCIENTIFIC PAPERS

Strydom, A., I.M. Bester, M. Cameron, C.M.A.P. Franz and R.C. Witthuhn. 2013. Subtyping of *Listeria monocytogenes* isolated from a South African avocado processing facility using PCR-RFLP and PFGE. **Food Control: In press.**

Strydom, A., M. Cameron, K. Jacobs and R.C. Witthuhn. 2013. Phylogenetic analysis of *Cronobacter* isolates based on the *rpoA* and 16S rRNA genes. **Current Microbiology: In press.**

Witthuhn, R.C., Y. Smit, M. Cameron and P. Venter. 2013. Guaiacol production by *Alicyclobacillus* and comparison of two guaiacol detection methods. **Food Control 30: 700-704.**

Caleb, O.J., P.V. Mahajan, U.L. Opara and C.R. Witthuhn. 2012. Modelling the respiration rates of pomegranate fruit and arils. **Postharvest Biology and Technology 64: 49-54.**

Strydom, A., D-M. Cawthorn, M. Cameron and R.C. Witthuhn. 2012. Species of *Cronobacter* - A review of recent advances in the genus and their significance in infant formula milk. **International Dairy Journal: 27:3-12.**

Witthuhn, R.C., E. van der Merwe, P. Venter and M. Cameron. 2012. Guaiacol production from ferulic acid, vanillin and vanillic acid by *Alicyclobacillus acidoterrestris*. **International Journal of Food Microbiology 157: 113-117.**

Cawthorn, D-M., H.A. Steinman and R.C. Witthuhn. 2012. DNA barcoding reveals a high incidence of fish species misrepresentation and substitution on the South African market. **Food Research International 46: 30-40.**

Cawthorn, D-M., H.A. Steinman and R.C. Witthuhn. 2012. Evaluation of the 16S and 12S rRNA genes as universal markers for the identification of commercial fish species in South Africa. **Gene 491: 40-48.**

Caleb, O.J., P.V. Mahajan, U.L. Opara, R.C. Witthuhn. 2012. Modelling the respiration rates of pomegranate fruit and arils. **Postharvest Biology and Technology 64: 49-54.**

Cawthorn, D-M., H.A. Steinman and R.C. Witthuhn. 2011. Establishment of a mitochondrial DNA sequence database for the identification of fish species commercially available in South Africa. **Molecular Ecology Resources 11: 979-991.**

Steyn, C.E., M. Cameron, G. Brittin and R.C. Witthuhn. 2011. Contamination of pear concentrate by *Alicyclobacillus* from recirculating flume water during fruit concentrate production. **World Journal of Microbiology and Biotechnology 27: 2449-2454.**

Strydom, A., M. Cameron and R.C. Witthuhn. 2011. PCR-RFLP analysis of the *rpoB* gene to distinguish the five species of *Cronobacter*. **Food Microbiology 28: 1472-1477.**

Cawthorn, D-M., H.A. Steinman and R.C. Witthuhn. 2011. Evaluating the availability of fish species on the South African market and the factors undermining sustainability and consumer choice. **Food Control 22: 1748-1759.**

Steyn, C.E., M. Cameron and R.C. Witthuhn. 2011. Occurrence of *Alicyclobacillus* in the fruit processing environment – A review. **International Journal of Food Microbiology 147: 1-11.**

Witthuhn, R.C., Y. Smit, M. Cameron and P. Venter. 2011. Isolation of *Alicyclobacillus* and the influence of different growth parameters. **International Journal of Food Microbiology** **146**: 63–68.

Arthur, H., E. Joubert, D. De Beer, C.J. Malherbe and R.C. Witthuhn. 2011. Phenylethanoid glycosides as major antioxidants in *Lippia multiflora* herbal infusion and their stability during steam pasteurisation of the plant material. **Food Chemistry** **127**: 581–588.

Smit, Y., M. Cameron, P. Venter, R.C. Witthuhn. 2011. *Alicyclobacillus* spoilage and isolation – A review. **Food Microbiology** **28**: 331-349.

Mofokeng, L., D-M. Cawthorn, R.C. Witthuhn, L.E.C.M. Anelich and P.J. Jooste. 2011. Characterization of *Cronobacter* species (*Enterobacter sakazakii*) isolated from various South African food sources. **Journal of Food Safety** **31** (1): 98–107.

Steyn, C.E., M. Cameron, G. Brittin and R.C. Witthuhn. 2011. Prevention of the accumulation of *Alicyclobacillus* in apple concentrate by restricting the continuous process running time. **Journal of Applied Microbiology** **110**: 658-665.

Arthur, H., M. Cameron, E. Joubert and R.C. Witthuhn. 2011. Identification of bacterial species on *Lippia multiflora* herbal tea leaves and the influence of steam pasteurization. **World Journal of Microbiology and Biotechnology** **27**: 443–447.

Van Schalkwyk, D.L., K.W. McMillin, M. Booyse, R.C. Witthuhn and L.C. Hoffman. 2011. Physico-chemical, microbiological, textural and sensory attributes of matured game salami produced from springbok (*Antidorcas marsupialis*), gemsbok (*Oryx gazella*), kudu (*Tragelaphus strepsiceros*) and zebra (*Equus burchelli*) harvested in Namibia. **Meat Science** **88**: 36–44.

Cawthorn, D.-M., H.A. Steinman and R.C. Witthuhn. 2011. Comparative study of different methods for the extraction of DNA from fish species commercially available in South Africa. **Food Control**: **22**: 231-244.

Van Wyk, J., R.C. Witthuhn and T.J. Britz. 2011. Optimisation of vitamin B12 and folate production by *Propionibacterium freudenreichii* strains in kefir. **International Dairy Journal** **21**: 69-74.

Van Schalkwyk, D.L., K.W. McMillin, R.C. Witthuhn and L.C. Hoffman. 2010. The contribution of wildlife to sustainable natural resource utilization in Namibia: a review. **Sustainability** **2**(11): 3479-3499.

Bester, L., M. Cameron, M. du Toit and R.C. Witthuhn. 2010. PCR and DGGE detection limits for wine spoilage microbes. **South African Journal of Enology and Viticulture** **31** (1): 26-33.

Cawthorn, D.M., H.A. Steinman and R.C. Witthuhn. 2010. Wheat and gluten in South African food products. **Food and Agricultural Immunology** **21** (2): 91-102.

Dalton, A., P. Wolmarans, R.C. Witthuhn, M.E. van Stuijvenberg, S.A. Swanevelder, C.M. Smuts. 2009. A randomised control trial on schoolchildren showed improvement in cognitive function after consuming a bread spread, containing fish-flour from a marine source. **Prostaglandins, Leukotrienes & Essential Fatty Acids 80: 143-149.**

Todorov, S.D., J.W. von Mollendorff, E. Moelich, N. Muller, R.C. Witthuhn and L.M.T. Dicks. 2009. Evaluation of potential probiotic properties of *Enterococcus mundtii*, its survival in boza and *in situ* bacteriocin production. **Food Technology and Biotechnology 47 (2): 178-191.**

Groenewald, W.H., P.A. Gouws and R.C. Witthuhn. 2009. Isolation, identification and typification of *Alicyclobacillus acidoterrestris* and *Alicyclobacillus acidocaldarius* strains from orchard soil and the fruit processing environment in South Africa. **Food Microbiology 26: 71-76.**

Cawthorn, D-M. and R.C. Witthuhn. 2008. Selective PCR detection of viable *Enterobacter sakazakii* cells utilising propidium monoazide or ethidium bromide monoazide. **Journal of Applied Microbiology 105: 1178-1185.**

Cawthorn, D-M., S. Botha and R.C. Witthuhn. 2008. Evaluation of different methods for the detection and identification of *Enterobacter sakazakii* isolated from South African infant formula milks and the processing environment. **International Journal of Food Microbiology 127: 129-138.**

Groenewald, W.H., P.A. Gouws and R.C. Witthuhn. 2008. Isolation and identification of species of *Alicyclobacillus* from orchard soil in the Western Cape, South Africa. **Extremophiles 12: 159-163.**

Witthuhn, R.C., W. Duvenage and P.A. Gouws. 2007. Evaluation of different growth media for the recovery of species of *Alicyclobacillus*. **Letters in Applied Microbiology 45 (2): 224-229.**

Todorov, S.D., J.E. Powell, M. Meincken, R.C. Witthuhn and L.M.T. Dicks. 2007. Factors affecting the adsorption of *Lactobacillus plantarum* bacteriocin bacST8KF to *Enterococcus faecalis* and *Listeria innocua*. **International Journal of Dairy Technology 60 (3): 221-227.**

Duvenage, W., P.A. Gouws and R.C. Witthuhn. 2007. PCR-based DGGE identification of bacteria present in pasteurised South African fruit juices. **South African Journal of Enology and Viticulture 28 (1): 56-60.**

Keyser, M., T.J. Britz and R.C. Witthuhn. 2007. Fingerprinting and identification of Bacteria present in UASB granules used to treat winery, brewery, distillery or peach-lye canning wastewater. **South African Journal of Enology and Viticulture 28 (1): 69-79.**

Witthuhn, R.C., F. Kemp, and T.J. Britz. 2007. Isolation and PCR detection of *Enterobacter sakazakii* in South African food products, specifically infant formula milks. **World Journal of Microbiology and Biotechnology 23: 151-157.**

Powell, J.E., R.C. Witthuhn, S.D. Todorov and L.M.T. Dicks. 2007. Characterization of bacteriocin ST8KF produced by a kefir isolate *Lactobacillus plantarum* ST8KF. **International Dairy Journal** 17: 190-198.

Groenewald, W.H., C.A. Van Reenen, S.D. Todorov, M. Du Toit, R.C. Witthuhn, W.H. Holzapfel and L.M.T. Dicks. 2006. Identification of lactic acid bacteria from vinegar flies based on phenotypic and genotypic characteristics. **American Journal of Enology and Viticulture** 57 (4): 519-525.

Keyser, M., R.C. Witthuhn and T.J. Britz. 2006. PCR-based denaturing gradient gel electrophoretic evaluation of changes in the non-methanogenic population of stressed upflow anaerobic sludge blanket granules. **World Journal of Microbiology and Biotechnology** 22: 1041-1048.

Powell, J.E., S.D. Todorov, C.A. van Reenen, L.M.T. Dicks and R.C. Witthuhn. 2006. Growth inhibition of *Enterococcus mundtii* in Kefir by *in situ* production of bacteriocin ST8KF. **Le Lait** 86 (5): 401-405.

Dalton, A., R.C. Witthuhn, C.M. Smuts, P. Wolmarans and D.G. Nel. 2006. Development, microbiological content and sensory analysis of a spread rich in n-3 fatty acids. **Food Research International** 39 (5): 559-567.

Keyser, M., R.C. Witthuhn, C. Lamprecht, M.P.A. Coetzee and T.J. Britz. 2006. PCR-based DGGE fingerprinting and identification of methanogens detected in three different types of UASB granules. **Systematic and Applied Microbiology** 29 (1): 77-84.

Dumilile, P., R.C. Witthuhn and T.J. Britz. 2005. Impact of different pasteurisation temperatures on the survival of microbial contaminants isolated from pasteurised milk. **International Journal of Dairy Technology** 58 (2): 74-82.

Witthuhn, R.C., S. Engelbrecht, E. Joubert and T.J. Britz. 2005. Microbial content of commercial South African high moisture dried fruits. **Journal of Applied Microbiology** 98: 722-726.

Witthuhn, R.C., T. Schoeman and T.J. Britz. 2005. Characterisation of the microbial population at different stages of Kefir production and Kefir grain mass cultivation. **International Dairy Journal** 15: 383-389.

Witthuhn, R.C., T. Schoeman, A. Cilliers and T.J. Britz. 2005. Impact of preservation and different packaging conditions on the microbial community and activity of Kefir grains. **Food Microbiology** 22: 337-344.

Theunissen, J., T.J. Britz, S. Torriani and R.C. Witthuhn. 2005. Identification of probiotic microbes in South African products using PCR-based DGGE analyses. **International Journal of Food Microbiology** 98: 11-21.

Witthuhn, R.C., A. Cilliers and T.J. Britz. 2005. Evaluation of different preservation techniques on the storage potential of Kefir grains. **Journal of Dairy Research** 72: 125-128.

Garbers, I-M., T.J. Britz and R.C. Witthuhn. 2004. PCR-based DGGE typification and identification of the microbial consortium present in Kefir grains. **World Journal of Microbiology and Biotechnology** 20 (7): 687-693.

Witthuhn, R.C., T. Schoeman and T.J. Britz. 2004. Isolation and characterisation of the microbial population of different South African Kefir grains. **International Journal of Dairy Technology** 57: 33-37.

Keyser, M., R.C. Witthuhn, L-C. Ronquest and T.J. Britz. 2003. Treatment of winery effluent with upflow anaerobic sludge blanket (UASB) - granular sludges enriched with *Enterobacter sakazakii*. **Biotechnology Letters** 25: 1893-1898.

Britz, T.J., C. van Schalkwyk, L-C. Ronquest, R.C. Witthuhn, M. Cameron, A. van Eeden and O. O'Kennedy. 2002. Mass culturing of granules for use in upflow anaerobic sludge blanket (UASB) bioreactors by process induction and microbial stimulation. *WRC Report 1022/1/02*. ISBN 1-86845-908-X. Published by the Water Research Commission, Pretoria, South Africa.

Witthuhn, R.C., T.C. Harrington, B.D. Wingfield, J.P. Steimel and M.J. Wingfield. 2000. Deletion of the *MAT-2* gene during uni-directional mating type switching in *Ceratocystis*. **Current Genetics** 38: 48-52.

Schoch, C.L., P.W. Crous, R.C. Witthuhn, G. Cronright, N.E. El-Gholl and B.D. Wingfield. 2000. Recombination in *Calonectria morgani* and phylogeny with other heterothallic small-spored *Calonectria* species. **Mycologia** 92: 665-673.

Witthuhn, R.C., T.C. Harrington, J.P. Steimel, B.D. Wingfield and M.J. Wingfield. 2000. Comparison of isozymes, rDNA spacer regions and *MAT-2* DNA sequences as phylogenetic characters in the analysis of the *Ceratocystis coerulescens* complex. **Mycologia** 92: 447-452.

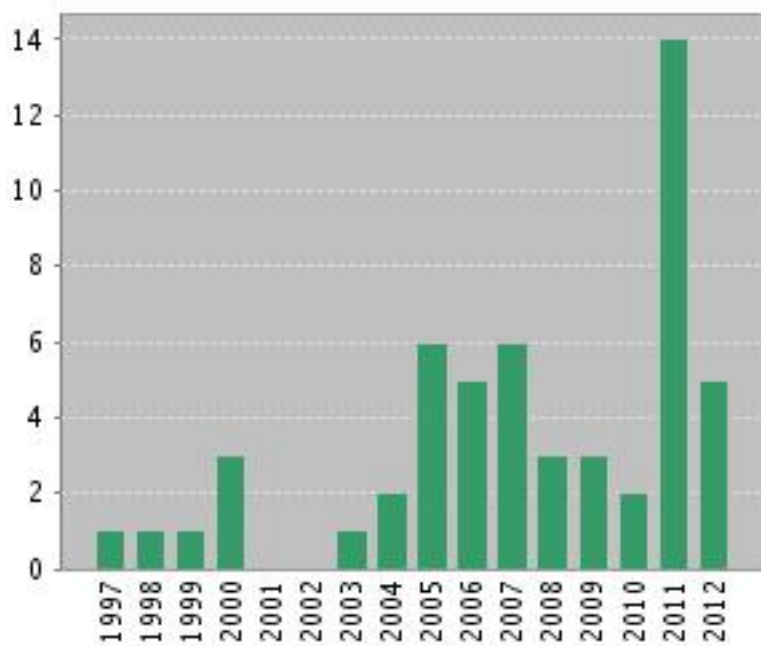
Witthuhn, R.C., B.D. Wingfield, M.J. Wingfield and T.C. Harrington. 1999. Phylogeny and RFLP analysis of species of *Ceratocystis sensu stricto*. **Mycological Research** 103: 743-749.

Witthuhn, R.C., B.D. Wingfield, M.J. Wingfield and T.C. Harrington. 1998. Monophyly of the conifer species in the *Ceratocystis coerulescens* complex based on DNA sequence data. **Mycologia** 90: 96-101.

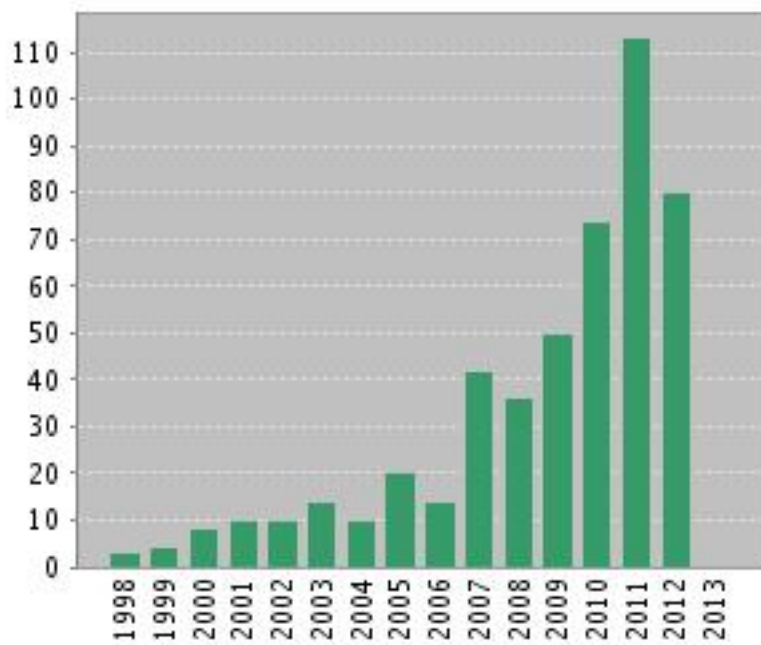
Witthuhn, R.C., B.D. Wingfield, M.J. Wingfield and T.C. Harrington. 1997. Comparison of three varieties of *Leptographium wageneri* using Random Amplified Polymorphic DNA. **South African Journal of Botany** 63: 198-200.

Strydom, R.C., B.D. Wingfield and M.J. Wingfield. 1997. Ribosomal DNA sequence comparison of *Leptographium lundbergii* and *L. truncatum* and neotypification of *L. lundbergii*. **Systematic and Applied Microbiology** 20: 295-300.

Published Items in Each Year



Citations in Each Year



Results found: 53

Sum of the Times Cited: 488

Sum of the Times Cited without self-citations: 445

Citing Articles: 406

Citing Articles without self-citations: 377

Average Citations per item: 9.21

h-index: 15

2.2 POPULAR SCIENTIFIC PUBLICATIONS

Cawthorn, D.M., H.A. Steinman and R.C. Witthuhn. 2010. Mapping the future of fish sustainability. **Food Review 37 (7): 40–42.**

Groenewald, W.H. and R.C. Witthuhn. 2010. Fruit spoilage microbes in the South African fruit processing environment. **Food Review 37 (1): 30-31.**

Groenewald, W.H., Y. Smit and R.C. Witthuhn. 2009. Alicyclobacilli, fruit juice spoilage microbes in the South African processing environment (cover page article). **Fruit Processing September/October 5/2009: 222–228.**

Witthuhn, R.C. and W. Duvenage. 2006. Tainted fruit juice. **Food Review 33 (7): 18.**

Kemp, F. and R.C. Witthuhn. 2006. Under the microscope: *Enterobacter sakazakii*. **Food Review 33 (1): 34-35.**

Theunissen, J. and R.C. Witthuhn. 2004. Probiotic content: truth or fiction? **South African Food Review 31 (5): 15-17.**

2.3 TECHNICAL REPORTS

Witthuhn R.C., M. Keyser and T.J. Britz. 2003. Molecular characterization of granules from the upflow anaerobic sludge blanket bioreactors (UASB). *WRC Report No K5/1022*. Published by the Water Research Commission, Pretoria, South Africa.

3. PRESENTATIONS AT CONGRESSES

3.1 International

Macuamule, C., M. Cameron, I. Wiid and C. Witthuhn. 2012. Antimicrobial activity of lactic acid bacteria isolated from traditional African fermented milks against *Mycobacterium bovis*. **23rd International ICFMH Symposium FoodMicro2012, Istanbul, Turkey, 3 – 7 September 2012.**

Schutte, L. and R.C. Witthuhn. 2012. Isolation and identification of the microbial consortium present in fermented milks from Sub-Saharan Africa. **23rd International ICFMH Symposium FoodMicro2012, Istanbul, Turkey, 3 – 7 September 2012.**

Strydom, A., R.C. Witthuhn and P.A. Gouws. 2012. Isolation of *Listeria monocytogenes* specific bacteriophages from an avocado processing facility. **23rd International ICFMH Symposium FoodMicro2012, Istanbul, Turkey, 3 – 7 September 2012.**

Jooste, P., L. Mofokeng, D-M. Cawthorn, RC Witthuhn, L. Anelich. 2011. Characterization of *Cronobacter* isolates from various South African food sources. **World Congress of Microbes-2011, Beijing, China, 30 July – 1 August 2011.**

Bester, I.M., Cameron, M., Vorster, R. and Witthuhn, R.C. 2011. PFGE and RFLP subtyping of *Listeria monocytogenes* isolated from an avocado processing facility in South Africa. **Society for Applied Microbiology (SfAM) Summer Conference, Dublin, Ireland, 5 – 7 July 2011.**

Strydom, A., Cameron, M. and Witthuhn, R.C. 2011. Phylogenetic evaluation and typing of *Cronobacter* spp. isolated from the South African environment. **Society for Applied Microbiology (SfAM) Summer Conference, Dublin, Ireland, 5 – 7 July 2011.**

Steyn, C.E., Cameron, M., Brittin, G. and Witthuhn, R.C. 2011. *Alicyclobacillus* contamination from untreated recycled processing water during fruit concentrate manufacturing in South Africa. **Society for Applied Microbiology (SfAM) Summer Conference, Dublin, Ireland, 5 – 7 July 2011.**

Todorov, S.D., L.M.T. Dicks, R.C. Witthuhn and M. Vaz-Velho. 2010. Bacteriocins, tools of the safety in food production. **Fourth International Conference on Food Science and Food Biotechnology in Developing Countries, Boca del Rio, Veracruz, Mexico, 28 November - 01 December 2010.**

Bester, I.M., M. Cameron, R. Vorster and R.C. Witthuhn. 2010. PFGE and RFLP subtyping of *Listeria monocytogenes* isolated from an avocado processing facility in South Africa. **Food Micro 2010, 22nd International ICFMH Symposium, Copenhagen, Denmark, 30 August – 3 September 2010.**

Steyn, C.E., M. Cameron and R.C. Witthuhn. 2010. The evaluation of the accumulation of species of *Alicyclobacillus* during fruit concentrate manufacturing in South Africa. **Food Micro 2010, 22nd International ICFMH Symposium, Copenhagen, Denmark, 30 August – 3 September 2010.**

Steyn, C.E., M. Cameron and R.C. Witthuhn. 2010. *Alicyclobacillus* contamination from untreated recycled processing water during fruit concentrate manufacturing in South Africa. **Food Micro 2010, 22nd International ICFMH Symposium, Copenhagen, Denmark, 30 August – 3 September 2010.**

Strydom, A., M. Cameron and R.C. Witthuhn. 2010. Phylogenetic evaluation and typing of *Cronobacter* spp. isolated from the South African environment. **Food Micro 2010, 22nd International ICFMH Symposium, Copenhagen, Denmark, 30 August – 3 September 2010.**

Van der Merwe, E., M. Cameron, P. Venter and R.C. Witthuhn. 2010. Evaluation of the precursor compounds in fruit juice products that may lead to the production of guaiacol by *Alicyclobacillus acidoterrestris*. **Food Micro 2010, 22nd International ICFMH Symposium, Copenhagen, Denmark, 30 August – 3 September 2010.**

Bester, I.M., M. Cameron, R. Vorster and R.C. Witthuhn. 2010. Subtyping of *Listeria monocytogenes* isolated from a South African avocado processing facility. **IUFoST 2010, 15th World Congress of Food Science and Technology, Cape Town, South Africa, 22 – 26 August 2010.**

Cawthorn, D-M., R.C. Witthuhn and H.A. Steinman. 2010. Prospects and pitfalls of using DNA barcoding for the identification of fish species commercially available in South Africa. **IUFoST 2010, 15th World Congress of Food Science and Technology, Cape Town, South Africa, 22 – 26 August 2010.**

Cawthorn, D-M., R.C. Witthuhn and H.A. Steinman. 2010. Establishment of a genetic database and molecular methods for the identification of South African fish species: a step towards preventing commercial fraud and promoting sustainable fisheries. **IUFoST 2010, 15th World Congress of Food Science and Technology, Cape Town, South Africa, 22 – 26 August 2010.**

Cawthorn, D-M., H.A. Steinman and R.C. Witthuhn. 2010. Comparative study of different methods for the extraction of DNA from fish species commercially available in South Africa. **IUFoST 2010, 15th World Congress of Food Science and Technology, Cape Town, South Africa, 22 – 26 August 2010.**

Steyn, C.E., M. Cameron and R.C. Witthuhn. 2010. Prevention of accumulation by species of *Alicyclobacillus* in fruit concentrates by restricting the continued processing length. **IUFoST 2010, 15th World Congress of Food Science and Technology, Cape Town, South Africa, 22 – 26 August 2010.**

Steyn, C.E., M. Cameron and R.C. Witthuhn. 2010. The effect of untreated recycled processing water on *Alicyclobacillus* contamination in fruit concentrate. **IUFoST 2010, 15th World Congress of Food Science and Technology, Cape Town, South Africa, 22 – 26 August 2010.**

Strydom, A., M. Cameron and R.C. Witthuhn. 2010. Molecular typing and phylogeny of *Cronobacter* spp. isolated from South African food products and an IFM processing environments. **IUFoST 2010, 15th World Congress of Food Science and Technology, Cape Town, South Africa, 22 – 26 August 2010.**

Todorov S.D., M. Vaz-Velho, R.C. Witthuhn and B.D.G.M. Franco. 2010. Isolation, identification and characterization of a new sakacin G-like bacteriocin produced by *Lactobacillus sakei* ST154Ch. **IUFoST 2010, 15th World Congress of Food Science and Technology, Cape Town, South Africa, 22 – 26 August 2010.**

Van der Merwe, E., M. Cameron, P. Venter and R.C. Witthuhn. 2010. Evaluation of precursor compounds that may lead to the production of the taint chemical guaiacol by *Alicyclobacillus acidoterrestris* in fruit juice products. **IUFoST 2010, 15th World Congress of Food Science and Technology, Cape Town, South Africa, 22 – 26 August 2010.**

Cawthorn, D.M., H.A. Steinman and R.C. Witthuhn. 2009. Establishment of a genetic database and molecular methods for the identification of South African fish species: a step towards preventing commercial fraud and promoting sustainable fisheries. **EUFoST Annual Conference, Budapest, Hungary, 11-13 November 2009.**

Todorov, S.D., B.D.G.M. Franco, R.C. Witthuhn and W.H. Holzapfel. 2009. Traditional fermented foods as a rich source of probiotic and bacteriocin producing lactic acid bacteria.

Food and Function 2009, Pre-conference Satellite Symposium on the role of fermented food in the maintenance of health, Zinlina, Slovakia, 8 June 2009. (Keynote Lecture).

Bester, L., M. du Toit, P. van Rensburg and R.C. Witthuhn. 2008. Detection and identification of spoilage microbes in South African wines using PCR-based DGGE analysis. **The 14th IUFOST World Congress of Food Science and Technology, Shanghai, China, 19 – 23 October 2008.**

Cameron, M. and R.C. Witthuhn. 2008. The use of ethidium monoazide and propidium monoazide to inhibit the amplification of DNA from dead cells during PCR detection of probiotic cells. **The 14th IUFOST World Congress of Food Science and Technology, Shanghai, China, 19 – 23 October 2008.**

Cawthorn, D-M. and R.C. Witthuhn. 2008. Appraisal of different methods for the detection and identification of *Enterobacter sakazakii* isolates from South African infant formula milks and processing environments. **The 14th IUFOST World Congress of Food Science and Technology, Shanghai, China, 19 – 23 October 2008.**

Cawthorn, D-M., S. Botha and R.C. Witthuhn. 2008. Discrimination of viable and dead *Enterobacter sakazakii* cells utilising DNA-intercalating dyes in combination with PCR. **The 14th IUFOST World Congress of Food Science and Technology, Shanghai, China, 19 – 23 October 2008.**

Groenewald, W.H., P.A. Gouws and R.C. Witthuhn. 2008. Isolation and typification of species of *Alicyclobacillus* from orchard soils and the fruit processing environment. **The 14th IUFOST World Congress of Food Science and Technology, Shanghai, China, 19 – 23 October 2008.**

Groenewald, W.H., P.A. Gouws and R.C. Witthuhn. 2008. Prevention of fruit juice spoilage by species of *Alicyclobacillus* using a novel UV treatment. **The 14th IUFOST World Congress of Food Science and Technology, Shanghai, China, 19 – 23 October 2008.**

Le Roux, Y., P. Venter and R.C. Witthuhn. 2008. Production of guaiacol by strains of *Alicyclobacillus* species isolated from South African fruit processing environments. **The 14th IUFOST World Congress of Food Science and Technology, Shanghai, China, 19 – 23 October 2008.**

Bester, L., M. du Toit, P. van Rensburg and R.C. Witthuhn. 2008. PCR-based DGGE identification of spoilage microbes in South African wines. **FoodMicro 2008, 21st International ICFMH Symposium, 30 August – 4 September 2008, Aberdeen, Scotland.**

Cameron, M. and R.C. Witthuhn. 2008. The use of DNA-intercalating dyes to allow PCR detection of only viable probiotic cells. **FoodMicro 2008, 21st International ICFMH Symposium, 30 August – 4 September 2008, Aberdeen, Scotland.**

Cawthorn, D-M. and R.C. Witthuhn. 2008. PCR detection of viable *Enterobacter sakazakii* cells utilising propidium monoazide and ethidium bromide monoazide. **FoodMicro 2008, 21st International ICFMH Symposium, 30 August – 4 September 2008, Aberdeen, Scotland.**

Cawthorn, D-M., S. Botha and R.C. Witthuhn. 2008. Evaluation of different methods for the detection and identification of *Enterobacter sakazakii* isolated from South African infant formula milks and the processing environment. **FoodMicro 2008, 21st International ICFMH Symposium, 30 August – 4 September 2008, Aberdeen, Scotland.**

Groenewald, W.H., P.A. Gouws and R.C. Witthuhn. 2008. Species of *Alicyclobacillus* isolated from orchard soils and the fruit processing environment in South Africa. **FoodMicro 2008, 21st International ICFMH Symposium, 30 August – 4 September 2008, Aberdeen, Scotland.**

Groenewald, W.H., P.A. Gouws and R.C. Witthuhn. 2008. The use of a novel UV system for the prevention of fruit juice spoilage by species of *Alicyclobacillus*. **FoodMicro 2008, 21st International ICFMH Symposium, 30 August – 4 September 2008, Aberdeen, Scotland.**

Le Roux, Y., P. Venter and R.C. Witthuhn. 2008. . Guaiacol production and spoilage potential of strains of *Alicyclobacillus* species isolated from South African fruit processing environments. **FoodMicro 2008, 21st International ICFMH Symposium, 30 August – 4 September 2008, Aberdeen, Scotland.**

Müseler, D.L., R.C. Witthuhn and L.C. Hoffman. 2008. Production of game salami from springbok (*Antidorcas marsupialis*), gemsbok (*Oryx gazella*), kudu (*Tragelaps strepsiceros*) and zebra (*Equus burchellii*). **54th International Congress of Meat Science & Technology, 10 – 15 August 2008, Cape Town, South Africa.**

Witthuhn, R.C. 2006. Kefir, a nutritional relieve for Africa. **FoodMicro 2006, 20th International ICFMH Symposium, 29 August – 2 September 2006, Bologna, Italy.**

Powell, J.E., S.D. Todorov, R.C. Witthuhn and L.M.T. Dicks. 2006. Isolation and characterization of a bacteriocin produced by *Lactobacillus plantarum* ST8KF isolated from kefir, and the use of FISH to monitor the survival of *Enterococcus mundtii* in enriched Kefir grains. **FoodMicro 2006, 20th International ICFMH Symposium, 29 August – 2 September 2006, Bologna, Italy.**

Duvenage, W., R.C. Witthuhn and P.A. Gouws. 2006. Isolation and identification of species of *Alicyclobacillus* from South African fruit juices and concentrates. **FoodMicro 2006, 20th International ICFMH Symposium, 29 August – 2 September 2006, Bologna, Italy.**

Todorov, S.D., Powell, J.E., R.C. Witthuhn and L.M.T. Dicks. 2005. Factors affecting the adsorption of bacteriocin ST8KF, produced by *Lactobacillus plantarum* isolated form Kefir. **Micro'05 Biotec'05, 30 November – 3 December 2005, Póvoa de Varzim, Portugal.**

Powell, J.E., S.D. Todorov, R.C. Witthuhn and L.M.T. Dicks. 2005. Isolation and characterisation of a bacteriocin produced by *Lactobacillus plantarum* ST8KF isolated from Kefir. **Micro'05 Biotec'05, 30 November – 3 December 2005, Póvoa de Varzim, Portugal.**

Powell, J.E., S.D. Todorov, R.C. Witthuhn and L.M.T. Dicks. 2005. Isolation and identification of *Lactobacillus plantarum* ST8KF from Kefir, a fermented milk beverage, and

characterization of its bacteriocin. **FEMS 8th Symposium on Lactic Acid Bacteria, 28 August – 1 September 2005, Egmond aan Zee, The Netherlands.**

Dalton, A., C.M. Smuts, R.C. Witthuhn, P. Wolmarans and A.S.J. Benadé. 2005. The effect of an omega 3 fatty acid-rich spread on the cognitive function of children. **18th International Congress of Nutrition, 19 - 23 September 2005, Durban, South Africa.**

Duvenage W., R.C. Witthuhn and P.A. Gouws. 2005. PCR-based DGGE analysis of *Alicyclobacillus* species in South African fruit juices. **105th General Meeting of the American Society for Microbiology, 5 – 9 June 2005, Atlanta, Georgia, USA.**

Keyser, M., R.C. Witthuhn and T.J. Britz. 2005. PCR-based DGGE fingerprinting and identification of the *Archaea* in different UASB granules. **105th General Meeting of the American Society for Microbiology, 5 – 9 June 2005, Atlanta, Georgia, USA.**

Keyser, M., Witthuhn, R.C. and Britz, T.J., 2004. PCR-based DGGE fingerprinting and identification of ‘*Eubacteria*’ present in four different UASB granules. **Anaerobic Digestion 2004, 29 August – 2 September 2004, Montreal, Canada.**

Smuts C.M., A. Dalton, R.C. Witthuhn and AJS Benadé. 2004. The effect of omega-3 rich spread on the cognitive function of learners 6-9 years old from a low socio-economic community. **ISSFAL 2004 – Lipids as Determinants of Cell Function and Health, The Brighton Centre, Brighton, UK, 27 June – 1 July 2004.**

Witthuhn, C., Joubert, H. and Britz, T.J., 2001. Optimization of propionibacterial extracellular polymer production. **3rd International Symposium on Propionibacteria, 8 – 11 July 2001, Zurich, Switzerland.**

Britz, T.J., Ronquest, L-C. and Witthuhn, R.C., 2001. UASB treatment of winery effluent with tailor-made granular sludge. **Anaerobic Digestion 2001, 2 - 6 September 2001, Antwerp, Belgium.**

Witthuhn, R.C., T.C. Harrington, B.D. Wingfield, D.L. McNew and M.J. Wingfield, 1998. Isolation of the *MAT-2* mating type gene from species of *Ceratocystis sensu stricto*. **Proceedings of the International Congress of Plant Pathology, 8 – 16 August 1998, Edinburgh, Scotland, United Kingdom.**

De Beer, Z.W., R.C. Witthuhn, H. Britz, M.J. Wingfield and B.D. Wingfield, 1998. Phylogenetic placement of *Ophiostoma stenoceras*-like isolates from hardwoods in the southern hemisphere. **Proceedings of the International Congress of Plant Pathology, 8 – 16 August 1998, Edinburgh, Scotland, United Kingdom.**

Strydom, R.C., T.C. Harrington, D.L. McNew, B.D. Wingfield and M.J. Wingfield, 1997. Deletion of the *MAT-2* idiomorph and mating type switching in *Ceratocystis*. **Proceedings of the annual meeting of the American Phytopathological Society, 27 - 31 July 1997, Rochester, New York State, U.S.A.**

Steenkamp, E.T., B.D. Wingfield, R.C. Strydom, T.A. Coutinho and M.J. Wingfield, 1997. Isolation and characterisation of a DNA fragment associated with mating type in *Fusarium*

subglutinans f. sp. *pini*. **Proceedings of the annual meeting of the American Phytopathological Society, 27 - 31 July 1997, Rochester, New York State, U.S.A.**

Strydom, R.C., B.D. Wingfield, M.J. Wingfield and T.C. Harrington, 1996. A comparison of isolates in the *Ceratocystis coerulescens* complex using DNA sequence data. **Proceedings of the annual meeting of the Mycological Society of America, 27 - 31 July 1996, Indianapolis, U.S.A.**

Strydom, R.C., B.D. Wingfield, M.J. Wingfield and T.C. Harrington, 1996. Identification of species of *Ceratocystis sensu stricto* using RFLP and DNA sequence data. **Proceedings of the annual meeting of the American Phytopathological Society, 27 - 31 July 1996, Indianapolis, U.S.A.**

Strydom, R.C., B.D. Wingfield and M.J. Wingfield, 1994. Ribosomal DNA sequence comparison of *Leptographium lundbergii* and *L. truncatum*. **Proceedings of the Fifth International Mycological Congress, 11 - 21 August 1994, Vancouver, British Columbia, Canada.**

3.2 National Meetings

Macuamule, C.L.S.M., M. Cameron and R.C. Witthuhn. Effect of Kefir on the fate of *Mycobacterium bovis*: Insight into a preventive intervention in the spread of tuberculosis in Africa. **Congress of the South African Society for Microbiology, Cape Town, 6-9 November 2011.**

Strydom, A., M. Cameron and R.C. Witthuhn. 2010. *Cronobacter* in South Africa: Phylogeny and Typing. **Congress of the South African Society for Dairy Technology, 12-14 April 2011, Bloemfontein, South Africa.**

Schutte, L.M., M. Cameron and R.C. Witthuhn. The microbial consortium present in fermented milks from Sub-Saharan Africa and Kefir. **Congress of the South African Society for Dairy Technology, 12 - 14 April 2011, Bloemfontein, South Africa.**

Strydom, A., M. Cameron and R.C. Witthuhn. 2010. Differentiation of three *Cronobacter* spp. with PCR-RFLP. **Congress of the South African Society for Dairy Technology, 21 - 23 April 2010, Stellenbosch, South Africa.**

Cameron, M., D.M. Cawthorn and R.C. Witthuhn. 2007. Differentiation between viable and dead probiotic microbes using PCR and DNA-intercalating dyes. **19th Biennial SAAFoST International Congress, Durban, South Africa, 3 – 5 September 2007.**

Cawthorn, D.M. and R.C. Witthuhn. 2007. Detection and identification of *Enterobacter sakazakii* from infant formula milk and the processing environment. **19th Biennial SAAFoST International Congress, Durban, South Africa, 3 – 5 September 2007.**

Groenewald, W.H., P.A. Gouws and R.C. Witthuhn. 2007. Evaluation of species of *Alicyclobacillus* known to cause spoilage of fruit juices in South Africa. **19th Biennial SAAFoST International Congress, Durban, South Africa, 3 – 5 September 2007.**

Groenewald, W.H., P.A. Gouws and R.C. Witthuhn. 2007. Prevention of fruit juice spoilage by species of *Alicyclobacillus* using a novel UV treatment. **19th Biennial SAAFoST International Congress, Durban, South Africa, 3 – 5 September 2007.**

Todorov, S.D., R.C. Witthuhn and L.M.T. Dicks. 2007. Bacteriocin production by *Lactobacillus pentosus* ST712BZ isolated from Boza. **19th Biennial SAAFoST International Congress, Durban, South Africa, 3 – 5 September 2007.**

Todorov, S.D., C.A. van Reenen, R.C. Witthuhn and L.M.T. Dicks. 2007. Characterization of bacteriocins produced by lactic acid bacteria, isolated from Boza, a cereal based fermented beverage from Bulgaria. **19th Biennial SAAFoST International Congress, Durban, South Africa, 3 – 5 September 2007.**

Siebrits, L., R.C. Witthuhn, P. Van Rensburg and M. Du Toit. 2006. PCR-based DGGE fingerprinting and identification of the microbes present in South African red wine. **3rd International Enology & Viticulture Conference, South African Society for Enology and Viticulture, Lord Charles Hotel, Somerset-West, South Africa, 15-17 November 2006.**

Groenewald, W.H., C.A. Van Reenen, S.D. Todorov, M. Du Toit, R.C. Witthuhn, W.H. Holzappel and L.M.T. Dicks. 2006. Identification of Lactic Acid Bacteria from Vinegar Flies Based on Phenotypic and Genotypic Characteristics. **3rd International Enology & Viticulture Conference, South African Society for Enology and Viticulture, Lord Charles Hotel, Somerset-West, South Africa, 15-17 November 2006.**

Dalton, A., C.M. Smuts, R.C. Witthuhn and P. Wolmarans. 2006. Development and effect of an omega 3 fatty acid-rich spread on absenteeism and cognition of children. **Congress of the South African Association for Family Ecology and Consumer Science, Bellville, 12 – 14 July 2006.**

Powell, J.E., S.D. Todorov, R.C. Witthuhn and L.M.T. Dicks. 2006. Isolation and characterization of a bacteriocin produced by *Lactobacillus plantarum* ST8KF isolated from kefir, and the use of FISH to monitor the survival of *Enterococcus mundtii* in enriched Kefir grains. **14th Biennial Congress of the South African Society for Microbiology, Pretoria, 10 - 12 April 2006.**

Siebrits, L., R.C. Witthuhn, P. Van Rensburg and M. Du Toit. 2006. PCR-based DGGE fingerprinting and identification of the microbes present in South African red wine. **14th Biennial Congress of the South African Society for Microbiology, Pretoria, 10 - 12 April 2006.**

Keyser, M., R.C. Witthuhn, M.P.A. Coetzee and T.J. Britz. 2006. Fingerprinting and identification of *Bacteria* present in four different types of UASB granules. **14th Biennial Congress of the South African Society for Microbiology, Pretoria, 10 - 12 April 2006.**

Duvenage, W., R.C. Witthuhn and P.A. Gouws. 2006. Culture-dependent and culture-independent methods for the isolation and identification of *Alicyclobacillus* spp. from South African fruit juices and concentrates. **14th Biennial Congress of the South African Society for Microbiology, Pretoria, 10 - 12 April 2006.**

Dalton, A., C.M. Smuts, R.C. Witthuhn and P. Wolmarans. 2005. Development of an omega 3 fatty acid rich spread and its effects on the fatty acid status and cognitive function of children. **18th Biennial SAAFoST International Congress, Stellenbosch, 5 – 8 September 2005.**

Duvenage, W., R.C. Witthuhn and P.A. Gouws. 2005. PCR-based DGGE analysis of *Alicyclobacillus* species in South African fruit juices. **18th Biennial SAAFoST International Congress, Stellenbosch, 5 – 8 September 2005.**

Kemp, F., R.C. Witthuhn and T.J. Britz. 2005. Isolation and detection of *Enterobacter sakazakii* in South African infant formula milks. **18th Biennial SAAFoST International Congress, Stellenbosch, 5 – 8 September 2005.**

Keyser, M., R.C. Witthuhn, C. Lamprecht, M.P.A. Coetzee and T.J. Britz. 2005. PCR-based DGGE fingerprinting and identification of *Archaea* in UASB granules treating three different types of food wastewater. **18th Biennial SAAFoST International Congress, Stellenbosch, 5 – 8 September 2005.**

Powell, J.E., S.D. Todorov, R.C. Witthuhn and L.M.T. Dicks. 2005. Isolation and characterisation of a bacteriocin produced by *Lactobacillus plantarum* ST8KF isolated from Kefir. **18th Biennial SAAFoST International Congress, Stellenbosch, 5 – 8 September 2005.**

Keyser, M., R.C. Witthuhn and T.J. Britz. 2004. Fingerprinting of the 'Eubacteria' in different UASB granules using PCR-based DGGE. **13th Biennial Congress of the South African Society for Microbiology, Stellenbosch, 4 – 7 April 2004.**

Theunissen, J., T.J. Britz and R.C. Witthuhn. 2004. Identification of probiotics from South African products using PCR-based DGGE analyses. **13th Biennial Congress of the South African Society for Microbiology, Stellenbosch, 4 – 7 April 2004.**

Smuts C.M., A. Dalton, R.C. Witthuhn and A.J.S. Benadé. 2004. Effects of an omega-3 rich spread on the cognitive function of learners 6-9 years old from a low socio-economic community. **Nutrition Congress 2004 - Diversity in Nutrition, Goudini Spa, Goudini, 23-27 August 2004.**

Dalton, A., C.M. Smuts, R.C. Witthuhn, P. Wolmarans, D. Nel and A.J.S. Benadé. 2004. The development, microbiological and sensory analyses of a novel spread rich in long chain n-3 fatty acids. **Nutrition Congress 2004 - Diversity in Nutrition, Goudini Spa, Goudini, 23-27 August 2004.**

Keyser, M., T.J. Britz and R.C. Witthuhn. 2003. PCR-based DGGE fingerprinting of microbes present in UAGB granules treating food industry effluents. **17th SAAFoST International Congress and Exhibition, Pretoria, 1 – 4 September 2003.**

Witthuhn, R.C., J. van Wyk, T. Schoeman, A.S. Myburgh and T.J. Britz. 2003. Microbes in Kevi and Kevi grains and the anti-microbial activity of the beverage. **17th SAAFoST International Congress and Exhibition, Pretoria, 1 – 4 September 2003.**

Garbers, I.M., T.J. Britz and R.C. Witthuhn. 2003. DGGE fingerprinting and molecular identification of microbes present in Kefi grains. **17th SAAFoST International Congress and Exhibition, Pretoria, 1 – 4 September 2003.**

Keyser, M., T.J. Britz and R.C. Witthuhn. 2003. Fingerprinting of the microbial species in different UASB granules using denaturing gradient gel electrophoresis. **IWA International Biofilm Symposium, Cape Town, 14 – 19 September 2003.**

Van Schalkwyk, C., H. Joubert, R.C. Witthuhn and T.J. Britz. 2003. Flocculation by an extracellular polymer producing *Propionibacterium jensenii* strain. **IWA International Biofilm Symposium, Cape Town, 14 – 19 September 2003.**

Witthuhn, R.C., J. van Wyk, T. Schoeman, A.S. Myburgh and T.J. Britz. 2002. Microbial content and anti-microbial activity of Kefi. **12th Biennial Congress of the South African Society for Microbiology, Bloemfontein, 2 – 5 April 2002.**

Britz, T.J., L-C. Ronquest, M. Keyser and R.C. Witthuhn. 2002. Microbial enhancement of high-rate anaerobic systems. **12th Biennial Congress of the South African Society for Microbiology, Bloemfontein, 2 – 5 April 2002.**

Keyser, M., T.J. Britz and R.C. Witthuhn. 2002. PCR-based DGGE fingerprinting of the different microbial species in UASB granules. **12th Biennial Congress of the South African Society for Microbiology, Bloemfontein, 2 – 5 April 2002.**

Garbers, I-M., T.J. Britz and R.C. Witthuhn. 2002. Molecular typification of Kefi grains. **12th Biennial Congress of the South African Society for Microbiology, Bloemfontein, 2 – 5 April 2002.**

Uusiku, N.P., R.C. Witthuhn and T.J. Britz. 2002. PCR detection of propionibacteria in Kefi. **12th Biennial Congress of the South African Society for Microbiology, Bloemfontein, 2 – 5 April 2002.**

Cronjé, M.C., R.C. Witthuhn and T.J. Britz. 2002. The isolation and identification of kefir producers in Kefi grains. **12th Biennial Congress of the South African Society for Microbiology, Bloemfontein, 2 – 5 April 2002.**

Witthuhn, R.C., J. van Wyk, T. Schoeman, A.S. Myburgh and T.J. Britz. 2001. Kefi: targeting the low-income African consumer market. **Cape Biotech 2001, Cape Town, 5–6 November 2001.**

Britz, T.J., L-C. Ronquest, M. Keyser and R.C. Witthuhn. 2001. Tailor-made UASB granules used for the treatment of winery effluent. **Cape Biotech 2001, Cape Town, 5–6 November 2001.**

Witthuhn, R.C., T.C. Harrington, B.D. Wingfield, J.P. Steimel and M.J. Wingfield, 2000. Deletion of the *MAT-2* idiomorph during uni-directional mating type switching in *Ceratocystis*. **The BioY2K Combined Millennium Meeting, Grahamstown, 23-28 January, 2000.**

Witthuhn, R.C., T.C. Harrington, J.P. Steimel, B.D. Wingfield and M.J. Wingfield, 2000. Comparison of isozymes, rDNA spacer regions and *MAT-2* DNA sequences as phylogenetic characters in the analysis of the *Ceratocystis coerulescens* complex. **The BioY2K Combined Millennium Meeting, Grahamstown, 23-28 January, 2000.**

De Beer, Z.W., R.C. Witthuhn, H. Britz, M.J. Wingfield and B.D. Wingfield, 1999. 18S rDNA sequences place *Ophiostoma* isolates from hardwoods in the southern hemisphere in the species *Ophiostoma stenoceras*. **37th Annual Congress of the Southern African Society for Plant Pathology, University of Natal, Pietermaritzburg, 17-20 January, 1999.**

Strydom, R.C., T.C. Harrington, B.D. Wingfield, D.L. McNew and M.J. Wingfield, 1998. Mating type genes in *Ceratocystis sensu stricto* and the deletion of the *MAT-2* idiomorph during mating type switching. **36th Annual Congress of the Southern African Society for Plant Pathology, Champagne Sports Resort, 25 - 28 January 1998.**

Strydom, R.C., T.C. Harrington, B.D. Wingfield and M.J. Wingfield, 1997. PCR amplification of the *MAT-2* gene in *Ceratocystis sensu stricto* using degenerative primers. **Second Conference of Biotechnology and Development in Southern Africa, Grahamstown, 21 - 24 January 1997.**

Strydom, R.C., B.D. Wingfield, M.J. Wingfield and T.C. Harrington, 1996. Identification of *Ceratocystis sensu stricto* using PCR, RFLP and sequence data of the rRNA genes. **34th Annual Congress of the Southern African Society for Plant Pathology, Stellenbosch, 14 - 17 January 1996.**

Strydom, R.C., B.D. Wingfield, M.J. Wingfield, T.C. Harrington and T.A. Coutinho, 1996. An analysis of the *Ceratocystis coerulescens* complex using DNA sequence data. **Ninth Biennial South African Society for Microbiology Meeting, Pretoria, 8 - 10 July 1996.**

Strydom, R.C., B.D. Wingfield and M.J. Wingfield, 1995. Identification of *Ceratocystis* species using PCR and RFLP's. **Biotechnology for Africa 95, Pretoria, 13 - 15 November 1995.**

Strydom, R.C., B.D. Wingfield and M.J. Wingfield, 1993. Sequence analysis of *Leptographium lundbergii* and *L. truncatum*. **31st Annual Congress of the South African Society for Plant Pathology, Club Mykonos, Langebaan, 17 - 20 January 1993.**

Strydom, R.C., B.D. Wingfield and M.J. Wingfield, 1992. Restriction Fragment Length Polymorphism analysis of *Leptographium lundbergii* and *L. truncatum*. **Annual Congress of the South African Society for Plant Pathology, Cintsa, East London, 26 - 29 January 1992. Phytohyalactica 24:97.**

Strydom, R.C., B.D. Wingfield and M.J. Wingfield, 1992. A comparison of *Leptographium lundbergii* and *L. truncatum* using RFLP analysis of the ribosomal RNA genes. **Abstracts of the 7th Biennial Congress of the South African Society for Microbiology, Bloemfontein, 30 March - 1 April 1992.**

4. REVIEWER FOR INTERNATIONAL SCIENTIFIC JOURNALS

- 4.1 Journal of Dairy Science (Impact factor = 2.134)
- 4.2 Microbial Ecology (Impact factor = 2.500)
- 4.3 International Dairy Journal (Impact factor = 2.062)
- 4.4 Food Microbiology (Impact factor = 1.049)
- 4.5 Journal of Applied Microbiology (Impact factor = 2.206)

5. NATIONAL AND INTERNATIONAL COLLABORATORS

- 5.1 Prof. Pieter Gouws, Department of Biotechnology, University of the Western Cape.
- 5.2 Dr. Annalien Dalton, Medical Research Council, Bellville.
- 5.3 Dr. Marius Smuts, Medical Research Council, Bellville.
- 5.4 Dr. Petro Wolmarans, Medical Research Council, Bellville.
- 5.5 Dr. Ian Wiid, Department of Medical Microbiology, Stellenbosch University.
- 5.6 Prof. Leon Dicks, Department of Microbiology, Stellenbosch University.
- 5.7 Dr. Svetoslav Todorov, Department of Microbiology, Stellenbosch University.
- 5.8 Dr. Maret du Toit, Institute for Wine Biotechnology, Stellenbosch University.
- 5.9 Dr. Pierre van Rensburg, Institute for Wine Biotechnology, Stellenbosch University.
- 5.10 Prof. Trevor Britz, Department of Food Science, Stellenbosch University.
- 5.11 Dr. Marena Manley, Department of Food Science, Stellenbosch University.
- 5.12 Prof. Marietjie Herselman, Department of Human Nutrition, Stellenbosch University.
- 5.13 Dr. Karin Jacobs, Department of Microbiology, Stellenbosch University
- 5.14 Prof. Linus Opara, SARCHII Chair, Post-harvest Technology, Stellenbosch University.
- 5.15 Dr. Martin Coetzee, FABI, University of Pretoria.
- 5.16 Dr. Pierre Venter, Central University of Technology and Fonterra, New Zealand.
- 5.17 Prof. Piet Jooste, Tswane University of Technology.
- 5.18 Prof. Lizette Joubert, ARC Infruitec-Nietvoorbij.
- 5.19 Dr. Francois Wolfaardt, SAPPI.
- 5.20 Prof. Sandra Torriani, Verona University, Italy.
- 5.21 Dr. Folarin Oguntoyinbo, University of Lagos, Nigeria.
- 5.22 Mrs. Claire Goosen, Danisco.
- 5.23 Mr. Chris Nieuwoudt, Mr. Hubert Rhode, Ceres Fruit Processors.
- 5.24 Mr. Andre van den Ende, Ms. Anza de Wit, Ms. Louna Reineke, Elgin Fruit Juices.
- 5.25 Mr. Mandla Jam-Jam, Ceres Fruit Juices.
- 5.26 Ms. Heidi Cupido, KWV.
- 5.27 Ms. Riekie van der Merwe, Ms. Sonette Schepers, Granor Passi.
- 5.28 Dr. Denise Smit, Ms. Rita Borkum, Dr. Afzal Dhamsay, Vital Health Foods.
- 5.29 Mr. David Shapiro and Ms. Shona Williams, Ms. Sharon Botha, Aspen Nutritionals.
- 5.30 Mr. Pauli Stemmet, Potato World and Lamberts Bay Foods.
- 5.31 Mr. Glen Brittin, Breede Valley Fruit Processors.
- 5.32 Dr. Harris Steinman, FACTS.
- 5.33 Louis Vorster, Marius van der Merwe, Rene Vorster, Westfalia.

6. RESEARCH FUNDING

Research funding was obtained from the National Research Foundation (NRF), Winetec, Water Research Commission (WRC), the International Foundation for Science (IFS), Sweden, HF Verwoerd Research Trust, PA & Alize Malan Trust, Lamberts Bay Foods, Breede Valley

Fruit Processors, ASNAPP, Westfalia, Deutsche Forschungsgemeinschaft, Germany, Stellenbosch University and the University of the Free State.

International Project Involvement includes the Netherlands Organization for Internationalization in Higher Education (NUFFIC) and European Union INTRA-ACP Mobility.

7. WORKSHOPS AND COURSES

7.1 ORGANISED WORKSHOPS AND COURSES

- 7.1.1 Organiser of the “*Alicyclobacillus* and the Spoilage of Fruit Juices in South Africa”, First Mini-Symposium to members of the Food Industry, Department of Food Science, Stellenbosch University, 17 August 2007. (Talk presented: R.C. Witthuhn, W. Duvenage and P.A. Gouws (2007). Isolation and detection of species of *Alicyclobacillus* from South African fruit juices). Attended by 45 South African fruit juice producers.
- 7.1.2 Co-organiser of the International Union of Microbiological Societies (IUMS), 2nd International Committee on Food Microbiology and Hygiene (ICFMH) Workshop: *Food Safety in Africa*. Department of Food Science, Stellenbosch University, 26 November – 1 December 2007.

7.2 ATTENDED WORKSHOPS AND COURSES

- 7.2.1 Women in Innovation, Research and Technology Conference, Hackle Brooke Conference Centre, Johannesburg, 26 – 27 July 2012.
- 7.2.2 Fynbos Forum. 2011. *Fynbos and human heritage*. Community Hall, Stilbaai, 31 May – 3 June 2011.
- 7.2.3 HERS-SA Academy 2009. UCT Graduate School of Business, Cape Town, 13 – 19 September 2009.
- 7.2.4 Council on Higher Education (CHE), Higher Education Quality Committee (HEQC), Evaluator Preparation Workshop: Food Technology, Birchwood Executive Hotel & Conference Centre, Boksburg, 25 – 27 July 2007.
- 7.2.5 Higher Education Leadership and Management (HELM): Heads of Schools and Academic Departments Programme, Spier Country Estate, Stellenbosch, 27 – 29 May 2007.
- 7.2.6 Dynamic Seminar on Manager’s Mistakes. Presented by Dr. Brian Jude, Cape Town, 9 November 2006.
- 7.2.7 HERS-SA Interactive Leadership Workshop, Cape Technikon, Cape Town, 19–21 February 2003.
- 7.2.8 The Big Idea 2003 Congress on Innovation and Entrepreneurship, International Convention Centre, Cape Town, 14 – 15 August 2003.
- 7.2.9 Taste Matters. One day Flavour Symposium. Peninsula Technikon, Bellville, Cape Town, 14 November 2002.
- 7.2.10 Food Processing Strategic Partnership Initiative – hosted by the Industrial Development and Marketing Division of the Department of Economic Affairs, Agriculture and Tourism (PAWC). Kirstenbosch, Cape Town, 24 March 1999.

- 7.2.11 South African National Bioinformatics Institute (SANBI)-UWC Bioinformatics Workshop, University of the Western Cape, Cape Town, 25-27 November 1999.
- 7.2.12 Introduction to Cheese Making, Elsenburg Agricultural College. Stellenbosch, August 1999.

8. REVIEWS OF THESES

External Examiner:

1. M.C. Simpson (2012). Microsatellite analysis of *Certocystis fimbriata*. University of Pretoria, Pretoria. M.Sc. Study leader: B.D. Wingfield, M.P.A. Coetzee, M.P. Wilken.
2. S.H. Martin (2011). Mating type and pheromone genes in the *Gibberella fujikuroi* species complex: an evolutionary perspective. University of Pretoria, Pretoria. M.Sc. Study leader: B.D. Wingfield, E.T. Steenkamp, M.J. Wingfield.
3. I.N. Fredericks (2010). Efficacy of ultraviolet radiation as an alternative technology to inactivate microorganisms in grape juices and wines. Cape Peninsula University of Technology, Cape Town. MTech. Study leader: M. Keyser, M. du Toit.
4. O.M. Makhari (2010). Population biology of *Fusarium circinatum* associated with South African Pinus radiata plantation trees. University of Pretoria, Pretoria. M.Sc. Study leader: E.T. Steenkamp, M.J. Wingfield, T.A. Coutinho.
5. S.E. Ramashia (2009). The prevalence of coliform species in selected food products with special reference to the detection of *Citrobacter koseri*. Tshwane University of Technology, Pretoria. M. Tech. Study leader: P.J. Jooste.
6. N.R. van Zuydam (2009). Identification of *Leptographium* species by mismatch discrimination of an oligonucleotide microarray. University of Pretoria, Pretoria. M.Sc. Study leader: B.D. Wingfield, K. Jacobs, M.J. Wingfield.
7. P.M. Wilken (2009). Identification and application of mating type gene sequences in *Ophiostoma*. University of Pretoria, Pretoria. M.Sc. Study leader: B.D. Wingfield, Z.W. de Beer, M.J. Wingfield.
8. L.I. Tsôeu (2009). *The taxonomy and spoilage characteristics of Flavobacteriaceae isolates from food*. University of the Free State, Bloemfontein. M.Sc. Study leader: C.J. Hugo, P.J. Jooste.
9. Q.C. Santana (2009). *Microsatellite discovery by deep sequencing of enriched genomic libraries*. University of Pretoria, Pretoria. Conversion from M.Sc. to Ph.D. Study leaders: B.D. Wingfield, M.P.A. Coetzee.
10. G. Fourie (2008). *Evolutionary biology of Fusarium oxysporum f.sp. cubense*. University of Pretoria, Pretoria. M.Sc. Study leaders: A. Viljoen, T.R. Gordon, E.T. Steenkamp.
11. M. Tarigan (2008). *Ceratocystis spp. and Botryosphaeriaceae on plantation Acacia species in Central Sumatra, Indonesia*. University of Pretoria, Pretoria. M.Sc. Study leaders: M.J. Wingfield, J. le Roux, M. van Wyk, B. Tjahjono.
12. Z.B.T. Mungloo (2008). *A study of quality management system with focus on food safety in selected local food organizations*. University of Mauritius, Réduit, Mauritius. MPhil. Study leaders: F. Khodabocus.

13. E.M. de Meyer (2006). *Fungi from utility poles in South Africa: taxonomy, phylogeny and effect on wood*. University of Pretoria, Pretoria. M.Sc. Study leaders: M.J. Wingfield, Z.W. de Beer.
14. D. Rip (2006). *Sample preparation methods and molecular based detection for the rapid isolation and identification of Listeria monocytogenes in food samples*. University of the Western Cape, Cape Town. MSc. Study leader: P.A. Gouws
15. Y. Roodt (2006). *Development of a transformation system for Avibacterium paragallinarum*. University of the Free State, Bloemfontein. M.Sc. Study leader: J. Albertyn, R.R. Bragg.
16. L. Uys (2006). *Optimization of probiotics in dairy products*. University of the Free State, Bloemfontein. M.Sc. Study leader: B.C. Viljoen, A. Hattingh.
17. M.P. Khoboko (2004). *ADH2 regulation in the yeast Saccharomyces cerevisiae*. University of the Free State, Bloemfontein. M.Sc. Study leader: J. Albertyn.
18. F.S. Thusi (2003). *The occurrence of antimicrobial resistant Campylobacter species in poultry*. University of the Western Cape, Cape Town. MSc. Study leader: P. Gouws.
19. M. van Wyk (2003). *Taxonomy and population biology of selected Ceratocystis spp. with hat-shaped ascospores*. University of Pretoria, Pretoria. MSc. Study leaders: M.J. Wingfield, J. Roux, I. Barnes.
20. O. de Smidt (2001). *Cloning and characterization of the capsule transport genes from Haemophilus paragallinarum*. University of the Free State, Bloemfontein. M.Sc. Study leaders: J. Albertyn, R.R. Bragg, E. van Heerden.
21. H. Britz van Heerden (2001). *Taxonomy and population genetics of Fusarium subglutinans sensu lato on pine and mango*. University of Pretoria, Pretoria. Ph.D. Supervisors: M.J. Wingfield, T.A. Coutinho, B.D. Wingfield and W.F.O. Marasas.
22. K.L. Hughes (2000). *Characterization of a methanol-oxidizing microbial association for use in landfill gas biofiltration*. University of Natal, Pietermaritzburg. M.Sc. Study leaders: E. Senior & R. Daneel.
23. J. de Wet (1999). *Studies on the diversity and biology of the pine pathogen Sphaeropsis sapinea*. University of Pretoria, Pretoria. M.Sc. Study leaders: M.J. Wingfield, T.A. Coutinho & B.D. Wingfield.

Internal Examiner:

1. L. Downing (2003). *Characterisation of biogenic amine genes in lactic acid bacteria isolated from wine*. M.Sc. Study leaders: M. du Toit, I.S. Pretorius & M.G. Lambrechts.
2. J. van Wyk (2002). *An HPLC evaluation of the vitamin B₁₂ and folate synthesis by the Propionibacterium freudenreichii group*. Ph.D. in Food Science. Study leader: T.J. Britz.
3. W. Griessel (2002). *Anaerobic bioconversion of the organic fraction from the fruit processing industry*. M.Sc. in Food Science. Study leader: T.J. Britz.
4. R.K. Robinson (2001). *Studies of traditional cheeses and fermented milks*. D.Sc. in Food Science. Promotor: T.J. Britz.
5. M. Kritzinger (2001). *Evaluation of hot water and hot air heat shock treatments of South African avocados to minimize the prevalence of chilling injury*. M.Sc. in Food Science. Study leader: T.J. Britz.
6. D. de Beer (2001). *The antioxidant activity of South African wines in radical scavenging and lipid peroxidation test systems as affected by cultivar and ageing*. M.Sc. in Food Science. Study leaders: E. Joubert, W.C.A. Gelderblom, M. Manley.

7. A.E. van Eeden (2001). *Extracellular polymer extraction and analysis from UASB granules and batch produced anaerobic granular sludge*. M.Sc. in Food Science. Study leader: T.J. Britz.
8. E. Swart (2000). *The effect of region, yeast strain and ascorbic acid on the development of a sulphur-like aroma and on Sauvignon blanc wine quality*. M.Sc. in Food Science. Study leaders: J. Marais & T.J. Britz.
9. O.D. O’Kennedy (2000). *Application of Biogranules in the anaerobic treatment of distillery effluents*. M.Sc. in Food Science. Study leader: T.J. Britz.
10. M. Cameron (2000). *Preservation techniques and carbon and nitrogen growth enhancement of batch cultivated UASB granules*. M.Sc. in Food Science. Study leader: T.J. Britz.
11. H. Joubert (2000). *Optimisation of Propionibacterial ECP production and the influence of Propionibacteria on the UASB granulation process*. M.Sc. in Food Science. Study leader: T.J. Britz.

9. EXTERNAL MODERATOR

University of Namibia:

2007 – 2011 External moderator for the BSc Food Science degree

University of the Western Cape:

October 2009 Course: BSc

Subject: BTY 330 (Food Microbiology)

Cape Peninsula University of Technology:

March 2009 Chair of the departmental external evaluation panel
Department of Food Technology, CPUT

2007 - 2010 *Course:* ND: Food Technology

Subject: Food Chemistry 3 (FCHE30)

2007 - 2009 *Course:* B. Tech.

Subject: Food Analysis

2007 - 2008 *Course:* ND: Food Technology

Subject: Food Biochemistry 3 (FOB330C)

Peninsula Technikon:

2001 - 2006 *Course:* ND: Food Technology

Subject: Food Chemistry III (FCHE30)

2001 - 2006 *Course:* BTEC: Food Technology

Subject: Food Analysis IV (FANA40)

2001 - 2004 *Course:* BTEC: Food Technology

Subject: Food Project (FPRJ40)

2004 *Course:* BTEC: Food Technology

Subject: Food Components IV

27 November 2001 Quality Assessment of the Department of Horticulture and Food Technology, Peninsula Technikon, Bellville, Cape Town.

10. REFEREES

Michael J. Wingfield

Director, Forestry and Agricultural Biotechnology Institute (FABI) and
DST/NRF Centre of Excellence in Tree Health Biotechnology (CTHB)

University of Pretoria

Pretoria

0002

South Africa

Tel: 012 420 3938

Fax: 012 420 3960

E-mail: mike.wingfield@fab.up.ac.za

Website: <http://www.fabinet.up.ac.za/people/mjwingfield>

Linus U. Opara

Professor and SARCHII Chair of Post Harvest Technology

Faculty of AgriSciences

Stellenbosch University

Private Bag X1

Matieland

7602

South Africa

Tel: 021 808 4064

Email: opara@sun.ac.za

Hendrik C. Swart

Professor and SARCHII Chair of Solid State Luminescent and Advanced Materials

Department of Physics

University of the Free State

PO Box 339

Bloemfontein

9300

Tel: 051 401 2926

Email: swarthc@ufs.ac.za

Application for Vice-Rector: Research Free State University

Declaration of Intent – November 2012

Prof Corli Witthuhn

Institutions of higher education are currently facing new and demanding challenges. These challenges include the uncertain world economic climate, changes in funding and the increased international competition for the best quality staff and students. Not only is management of these institutions pressured by the pursuit of excellence through teaching and research, but also universities have to increasingly contribute to local economic growth and technological advances.

The current leadership of the University of the Free State has clearly shown their commitment to quality teaching and research, as well as a strong impact and influence in the communities we live in. The competition between universities in South Africa in terms of quality and high impact research outputs has dramatically increased over the past decade. All the South African universities are attempting to increase their research outputs and standing, in order to negotiate a larger portion of state funding. The leadership provided by the Vice-Rector: Research at the University of the Free State will be critical in order to expand on the current research activities of this institution and to ensure that it is recognized as a top research driven university.

The university has to build a reputation of housing outstanding academics, highly successful students and sound and innovative leadership. The university has to be significantly different, significantly better and significantly relevant in a changing world. In the light of this, I am grateful for the opportunity to apply for the position as Vice-Rector: Research at the University of the Free State. I fulfil the inherent requirements of the position in the following manner:

- I obtained a doctorate degree (PhD in Microbiology) from the University of the Free State in 1999;
- I am an established researcher with 60 internationally peer-reviewed scientific publications, I am an NRF C2 rated scientist, h-index = 15 and have supervised 6 PhD and 25 MSc students;
- I am currently appointed as professor at the UFS;
- I have experience of leveraging research funding, both nationally and internationally. Nationally I have obtained funding through national funding agencies, as well as through collaboration with industry.
- I have experience in senior leadership at higher education institutions in that I have held the positions of Vice-Dean in the Faculty of AgriSciences at Stellenbosch University and in the Faculty of Natural and Agricultural Sciences at the University of the Free State;
- I have a clear understanding of the South African higher education system as Lecturer, Senior Lecturer and Associate Professor at Stellenbosch University from 1999 to 2011, and a professor at UFS since August 2011; and

- I strongly believe in the development and encouragement of the younger academics in order to address the crisis of the aging university researchers. I have, therefore, been involved in the Prestige Scholars Programme as co-director.

In the light of the increased challenges to institutions of higher education, as well as the competition between universities for research funding and quality students, I would like to make a contribution to the following:

- Improved support for researchers in obtaining research funding, NRF rating, attracting international post-graduate students and increasing the number of post-doctoral fellows joining our research teams in collaboration with the Directorate for Research Development and the International Office;
- Support for multi-disciplinary research through establishing innovative ways in which academics of various disciplines can collaborate;
- Dedication to building international partnerships and collaborative links, including collaboration on our own continent;
- Continue my role in the Prestige Scholars Programme and to identify the achievers amongst the emerging scholars in an effort to cultivate and nurture the potential P rated scholars, and together with this actively recruit young scholars;
- Understand and support the changing nature of libraries in using electronic resources and the impact thereof on research productivity and output;
- Encourage the development and securing of patents, commercialization of research, management of intellectual property and an increased third stream funding; and
- Equity in race and gender in all seven faculties and in all the levels of academic positions.

Senior Management

Vice-Rector: Research – Ref.: S1210-117

Internal advertisement

(Please note that this position will be filled internally).

This position is held open for a senior scholar with an impressive track record and extensive experience in conducting and leading research in university contexts. The scholar should have the leadership insights, capacity and drive to improve the research standing of the UFS. This Vice-Rector will thus be responsible for fundamental improvements in the research standing of the University in national, continental and international ranking systems.

This position requires close cooperation with the deans of faculties, the directors of research-related administrative offices (e.g. funding), the postgraduate school and individual researchers. The task of the incumbent will be to ensure that every unit of academic and administrative endeavour remains focused on the international standing of the University as a research-inspired institution.

Duties and responsibilities:

- Produce A- and P-rated scholars.
- Monitor the steady accumulation of institutional research outputs from one year to the next.
- Stimulate an active research culture across the seven faculties (e.g. research clusters) and in the University as a whole.
- Cultivate an active book-publishing culture especially among scholars in the humanities, education and social sciences.
- Build an award-winning ethos and culture among academic researchers within national and especially international competitions.
- Generate a grant-writing capacity among young and even established researchers.
- Identify and nurture future stars among emerging scholars of the University, including the recruitment of promising young scholars.
- Manage international and national research grants.
- Manage an effective DRD (Directorate for Research Development) Office.
- Manage patents and all research technologies.
- Manage research income, including research-related third-stream income and research commercialisation.
- Manage relationships with external grant-making agencies.

Inherent requirements:

- A doctoral degree.
- International reputation as an established researcher.
- Eligibility for appointment as professor at the University of the Free State (UFS).

- Experience with national and international funding agencies and successes in leveraging funding.
- Proven vision, leadership and interpersonal skills necessary to elevate the University's global research profile and relevance.
- Experience in a senior leadership role at an academic institution.
- A solid understanding of the South African higher education system, as well as the national and international realities of this sector.
- The ability to develop and maintain appropriate national and international links, partnerships, alliances and agreements both in and outside academia.
- The ability to function effectively within the multilingual and multi-cultural environment of the UFS.
- Extensive knowledge of and experience in working with national and international organised scientific research communities.

Recommendations:

- Comprehensive knowledge of the South African research environment.
- Experience in enhancing multi-institutional collaboration and productivity.

Term of office:

- Five years, with the possibility of reappointment for a further term.

Assumption of duties:

As agreed upon

Closing date:

02 November 2012

Remuneration package:

Details regarding the remuneration package, including fringe benefits, are available on request.

General:

Applications will be considered, irrespective of the gender, race or religion of the applicant. Candidates must be prepared to participate in the approved appointment procedure, which comprises the following:

- Management profile evaluation.
- An interview conducted by a selection committee.
- Providing certified copies of degree certificates and being aware that confidential referee reports will be requested.
- Public presentation (articulation) and elucidation of the candidate's vision for the portfolio.

Applications accompanied by an abridged (maximum two pages), as well as a comprehensive CV, a declaration of intent, the names of at least three referees, and certified copies of degree certificates must be addressed to

Ms M Ratsoane, Human Resources Department, University of the Free State, PO Box 339, Bloemfontein, 9300
or e-mailed to ratsoanems@ufs.ac.za.

Enquiries:

Tel: 051 401 2820, Mr LS Geyer (e-mail: geyerls@ufs.ac.za)

Tel: 051 401 3735, Prof NI Morgan (e-mail: morganni@ufs.ac.za)

Tel: 051 401 3971, Prof HR Hay (e-mail: hayd@ufs.ac.za)

Tel: 051 401 7000, Prof JD Jansen (e-mail: rector@ufs.ac.za)

The University reserves the right not to fill the position. The University is committed to employment equity.

Senior Bestuur

Viserektor: Navorsing – Verw.: S1210-117

Interne advertensie

(Neem asseblief kennis dat hierdie pos intern gevul sal word).

Hierdie posisie word oopgehou vir 'n senior akademikus met 'n indrukwekkende prestasierekord en omvattende ondervinding in die doen en lei van navorsing in universiteitsverband. Hierdie persoon moet oor die leierskapsinsigte, vermoë en dryfkrag beskik om die navorsingsreputasie van die UV te verbeter. Hierdie Viserektor sal dus verantwoordelik wees vir fundamentele verbetering van die navorsingsreputasie van die Universiteit in nasionale, kontinentale en internasionale rangorde-stelsels.

Hierdie posisie vereis noue samewerking met die dekane van fakulteite, die direkteure van navorsingverwante administratiewe kantore (bv. befondsing), die nagraadse skool en individuele navorsers. Die taak van die posbekleër sal wees om te verseker dat elke akademiese en administratiewe eenheid gefokus bly op die internasionale reputasie van die Universiteit as 'n instelling wat deur navorsing geïnspireer word.

Pligte en verantwoordelikhede:

- Produseer A- en B-gegradeerde navorsers.
- Monitor die bestendige akkumulering van institusionele navorsingsuitsette van een jaar na die volgende.
- Stimuleer 'n aktiewe navorsingskultuur dwarsoor die sewe fakulteite (bv. navorsingsklusters) en in die Universiteit as geheel.
- Kweek 'n aktiewe boekpubliserende kultuur, veral onder akademici in die geesteswetenskappe, opvoedkunde en sosiale wetenskappe.
- Bou 'n etos en kultuur van verwerping van toekennings in nasionale en veral internasionale kompetisies onder akademiese navorsers.
- Ontwikkel 'n vermoë onder jong en selfs gevestigde navorsers om, met die oog op navorsingstoekennings, voorstelle te skryf.
- Identifiseer en kweek toekomstige sterre onder opkomende akademici van die Universiteit, insluitende die werwing van belowende jong akademici.
- Bestuur internasionale en nasionale navorsingstoekennings.
- Bestuur 'n effektiewe DNO- (Direktoraat vir Navorsingsontwikkeling) kantoor.
- Bestuur patente en alle navorsingstegnologieë.
- Bestuur navorsingsinkomste, met inbegrip van navorsingverwante derdestroom-inkomste en navorsings-kommersialisering.
- Bestuur verhoudings met eksterne borgskap-agentskappe.

Inherente vereistes:

- 'n Doktorsgraad.
- Internasionale reputasie as 'n gevestigde navorser.
- Aanstelbaarheid as professor aan die Universiteit van die Vrystaat (UV).
- Ondervinding van nasionale en internasionale befondsingsagentskappe en sukses betreffende die werwing van fondse.
- Bewese visie, leierskap en die interpersoonlike vaardighede wat nodig is om die Universiteit se wêreldwye profiel en relevansie te verhoog.
- Ervaring van 'n senior-leierskapsrol aan 'n akademiese instelling.
- 'n Grondige begrip van die Suid-Afrikaanse hoërondewysstelsel, sowel as die nasionale en internasionale realiteite van hierdie sektor.
- Die vermoë om gepaste nasionale en internasionale verbintenisse, vennootskappe, alliansies en ooreenkomste beide in en buite die akademiese omgewing te ontwikkel en in stand te hou.
- Die vermoë om effektief binne die veeltalige en multikulturele omgewing van die UV te funksioneer.
- Omvattende kennis van en ondervinding in die samewerking met nasionale en internasionale navorsingsgemeenskappe.

Aanbevelings:

- Uitgebreide kennis van die Suid-Afrikaanse navorsingsomgewing.
- Ondervinding van die verbetering van multi-institusionele samewerking en produktiwiteit.

Ampstermyn:

- Vyf jaar, met die moontlikheid van heraanstelling vir 'n verdere termyn.

Diensaanvaarding:

Soos ooreengekom.

Sluitingsdatum:

02 November 2012

Vergoedingspakket:

Besonderhede aangaande die vergoedingspakket, insluitende byvoordele, is beskikbaar op aanvraag.

Algemeen:

Aansoeke sal oorweeg word ongeag die geslag, ras of godsdienstige oortuigings van die aansoeker. Kandidate moet bereid wees om deel te neem aan die goedgekeurde aanstellingsprosedure, wat die volgende behels:

- Evaluering van bestuursprofiel.
- 'n Onderhoud gevoer deur 'n keurkomitee.

- Voorsiening van gewaarmerkte afskrifte van graadsertifikate en bewustheid van die feit dat vertroulike verslae van referente aangevra gaan word.
- Openbare aanbieding (artikulering) en verduideliking van die kandidaat se visie vir die portefeulje.

Aansoeke vergesel van 'n verkorte (maksimum twee bladsye) sowel as 'n omvattende CV, 'n verklaring van voorneme, die name van minstens drie referente, en gesertifiseerde afskrifte van graadsertifikate moet gerig word aan me M Ratsoane, Departement Menslike Hulpbronne, Universiteit van die Vrystaat, Posbus 339, Bloemfontein, 9300, of per e-pos gestuur word aan ratsoanems@ufs.ac.za.

Navrae:

Tel: 051 401 2820, mnr LS Geyer (e-pos: geyerls@ufs.ac.za)

Tel: 051 401 3735, prof NI Morgan (e-pos: morganni@ufs.ac.za)

Tel: 051 401 3971, prof HR Hay (e-pos: hayd@ufs.ac.za)

Tel: 051 401 7000, prof JD Jansen (e-pos: rector@ufs.ac.za)

Die Universiteit behou die reg voor om die pos nie te vul nie. Die Universiteit is verbind tot billike indiensneming.