

**CURRICULUM VITAE J N ELOFF**  
 For more information please see [www.up.ac.za/phyto](http://www.up.ac.za/phyto)



**1. BIOGRAPHICAL SKETCH**

1.1 GENERAL INFORMATION									
Surname	Eloff								
First names	Jacobus Nicolaas				ID Number	3908195088001			
Citizenship	South African			Title	Prof.	Female		Male	√
Place of birth	Johannesburg					Date birth	19 August 1939		
Population group	African		Coloured		Indian		White	√	Other
Organisation	University of Pretoria								
Department	Phytomedicine Programme, Dept Paraclinical Sciences								
Faculty	Veterinary Science				Position		Programme Leader		
Direct telephone number	+27-12-529-8244 083-726-0098				Direct telefax number		+27-12-529-8535		
E-mail address	kobus.eloff@up.ac.za								
Date of appointment	1.6.1995			Full-time permanent		Full-time temporary contract		√	

1.2 ACADEMIC QUALIFICATIONS OBTAINED				
Degree/ Diploma	Field of study	Higher education institution	Year	
B.Sc.	Chemistry/Botany	Potchefstroom University	1959	
B.Sc. Hons	Chemistry	Potchefstroom University	1960	
M.Sc.	Chemistry	Potchefstroom University	1962	
B.Sc. Hons	Botany	Potchefstroom University	1963	
M.Sc.status	Plant Biochemistry	Potchefstroom University	1965	
D.Sc.	Plant Biochemistry	Potchefstroom University	1967	
Certificate	Executive Management	University Stellenbosch	1984	
Certificate	Strategic Management	University Stellenbosch	1986	

1.3 WORK EXPERIENCE TO DATE		
Name of employer	Capacity and/or type of work	Period
Agricultural Research Institute	Professional Research Officer	1961-1964

Highveld Region		
University Pretoria	Lecturer Plant Physiology and Biochemistry	1964-1968
Potchefstroom University	Senior Lecturer Botany	1968-1969
Free State University	Professor, Head of Department of Botany	1970-1983
National Botanic Gardens Kirstenbosch	Executive Director and Harold Pearson Professor of Botany at University of Cape Town	1983-1989
National Botanical Institute	Director of Research and Honorary Professor University Pretoria, Stellenbosch, Rand Afrikaans University	1990-1993
Pro Scientia CC	Independent Consultant Scientific Services, Editor Scientific Journal, Teach RAU	1994-1995
University Pretoria	Senior Lecturer Pharmacology –Research on Medicinal Plants, Faculty of Health Sciences	1995-2001
University Pretoria	Leader Phytomedicine Programme and Research Professor, Faculty of Veterinary Science	2002-

## 2. TEACHING AND LECTURING DUTIES

### 2.1 Courses presented since 2000

Course	Level	Self developed (Yes or No)
Background to medicinal plants and isolation of bioactive compounds	Masters and Doctorate	Yes
Scientific Basis to the use and quality control of herbal medicines	Professional Pharmacists and public	Yes
Challenges in commercializing of plant based products	Scientists for international workshops	Yes

## 3. POST GRADUATE STUDENT RESEARCH OUTPUTS

### 3.1 Former supervision or co-supervision (completed)

#### 3.1.1 MSc students

Name of student	Degree and date, University, project title	Supervisor or	Co-supervisor(s)
1 Grobbelaar, J.U.	MSc 1971 (UOFS). Studies on open dynamic cultivation systems for algae	E M van Zinderen Bakker	J N Eloff
2 Pretorius, J.A.	MSc 1978 (UOFS). Groei van <i>Microcystis aeruginosa</i> op agarmedium.	J N Eloff	
3 Janse van Vuuren, M.M.	MSc 1979 (UOFS). Die invloed van ligintensiteit en ligkwaliteit op die groei van <i>Microcystis</i> .	J N Eloff	
4 de Wet, J.S.	MSc 1980 (UOFS). Die groei van <i>Microcystis</i> met aminosure as stikstofbron.	J N Eloff	
5 van Wyk, P.W.J.,	MSc 1980 (UOFS). Ultrastrukturele karakterisering van sekere sellulêre insluitels van <i>Microcystis</i> .	J N Eloff	
6 Scott, G.	MSc 1985 (UCT). The systematic significance of certain flavonoids in the genus <i>Protea</i> L.	J N Eloff	
7 van Schalkwyk, A.J.,	MSc 1986 (UCT). Voorkoms van vry aminosure in die genus <i>Protea</i> L.	J N Eloff	
8 Powrie, L.W.	MSc 1986 (UCT). The distribution of free amino acids in <i>Diastella</i> Salisb., <i>Leucospermum</i> R.Br. and some other members of the Proteaceae.	J N Eloff	

9 Prosch, D	MSc 1986 (UCT). An evaluation of free amino acids as chemotaxonomic markers in <i>Protea</i> L. species.	J N Eloff	
10 Smit, E.J.	MSc 1984 (UOFS). Pigment composition of different <i>Microcystis</i> isolates and variation with culture conditions.	J N Eloff	
11 Koning, G	MSc 1993 (UP). . Fractionation of coal-derived humates.	J N Eloff	A van de Venter
12 Hamman, B	MSc 1993 (UP). . Mode of action of coal-derived humates.	A van de Venter	J N Eloff

13 Martini, N. (distinction)	MSc 1998 (UP). Extraction and separation of antimicrobial components from <i>Combretum erythrophyllum</i> .	J N Eloff	
14 Kotzé, M	MSc 2000 (UP). An investigation of antibacterial compounds in <i>Combretum microphyllum</i> (Klotsch)	J N Eloff	
15 Marais, A (distinction)	MSc 2001 (UP). Increased-rate stability studies for St John's wort ( <i>Hypericum perforatum</i> ), Ginkgo biloba and Kava Kava ( <i>Piper methysticum</i> ) under unfavourable environmental conditions.	J N Eloff	R van Brummelen
16 Retief, A C (distinction)	MSc 2001 (UP). Analysis of sterols and sterolins in <i>Hypoxis hemerocallidea</i> and related herbal medicine	J N Eloff	R van Brummelen
17 Ntloedibe, D T (distinction)	MSc 2002 (UP). Identification of commercially used herbal material for quality control purposes.	J N Eloff	R van Brummelen
18 Famakin, J O (distinction)	MSc 2002 (UP). Isolation of antimicrobial compounds present in <i>Combretum woodii</i>	J N Eloff	D Katerere
19 Manana, J V (distinction)	MSc 2003 (UP). Developing techniques to identify commonly used traditional herbal medicine for quality control purposes	J N Eloff	
20 Serage, S A (distinction)	MSc 2003 (UP). Isolation of antimicrobial compounds present in <i>Combretum apiculatum</i> subsp <i>apiculatum</i>	J N Eloff	D Katerere
21 Moloto, Marea (distinction)	MSc 2004 (Medunsa) Isolation of antibacterial compounds from <i>Ziziphus mucronota</i>	J Shai	J N Eloff
22 Chikoto, Havana (distinction)	MSc. 2004 (UP). Development of a novel extraction system for proanthocyanidins	J N Eloff	
23 Naidoo, Vinnasan (distinction)	MSc 2004 (UP). Screening of selected plants used in ethnoveterinary medicine for treatment of tick borne diseases in South Africa, for antimicrobial and antiparasitic activity	J N Eloff	G E Swan
24 Beukes, Suzette (distinction)	MSc 2004 (UP). In vitro antimicrobial activity of phytomedicine against oral bacteria	J N Eloff	F Botha
25 Nchu, Felix (distinction)	MSc 2004 (Medunsa) Developing methods to assay plant extracts for tick control	S Magano	J N Eloff
26 Zishiri, Vincent (distinction)	MSc 2004 (UP). Potentising and application of a <i>Combretum woodii</i> leaf extract with high antibacterial and antioxidant activity	J N Eloff	C J Botha
27 Komape, Patience	MSc 2005 (Limpopo) Biological activity of leaf extracts of <i>Combretum vendae</i> and isolation of an antibacterial compound	J N Eloff	S P Songca
28 Angeh, Irene (distinction)	MSc 2006 (UP). Development of a antifungal plant extract to protect plants.	J N Eloff	L J McGaw
29 Mothibe, Mamza	MSc 2006 (Limpopo) The therapeutic and toxicological properties of <i>Combretum woodii</i> leaf extracts	JN Eloff	P van Wyk
30 Zorloni, Alberto (distinction)	MSc 2007 (UP). Evaluation of antitick activity of plant species used in Ethiopia	J N Eloff	B Penzhorn
31 Kgatle, Thomas (distinction)	MSc 2007 (UP). Evaluation of antioxidant activity of members of the Combretaceae	M Aderogba	J N Eloff
32 Mokoka, Tsholofelo (distinction)	MSc 2007 (UP). Isolation and characterization of compounds active against <i>Cryptococcus neoformans</i> from tree leaves	L J McGaw	J N Eloff
33 Mawela, Gloria	MSc 2008 (UP). Development of botanicals with insect toxicant and repellent properties for control of tick infestation	JN Eloff	S Mogane
34 Issa Muraina (distinction)	MSc 2008 (Ahmadu Bello University, Zaria, Nigeria) In vitro screening for safe and effective antimycoplasma plant(s)	AO Aduadi	JN Eloff
35 Stanley Gololo	MSc 2009 (UL) Isolation of active compounds of Senna species	L Mampuru	JN Eloff
36 Adamu Kaikabo	MSc 2009 (UP). Isolation and characterization of antibacterial	JN Eloff	B Samuel

(distinction)	compounds from a <i>Garcinia livingstonei</i> (Clusiaceae) leaf extract.		
37 Moraba Meela (distinction)	MSc 2009 (UP). Evaluation of alien invasive weedy plants for activity against plant pathogenic fungi	JN Eloff	LK Mdee
38 Dr Clement Kandu Lelu	MSc 2010 (UP). The in vitro and in vivo activity of <i>Cereus janthelicum</i> against anthelmintic parasites	JN Eloff	A Vatto
39 Nana Boaduo (distinction)	MSc 2010 (UP). Plant compounds used in the treatment of diabetes	V Naidoo	JN Eloff
40 Tshepiso Makhafola (distinction)	MSc 2010 (UP). Isolation of an antibacterial compound from a plant used to enhance animal productivity	JN Eloff	B Samuel
41 Ms Costa Sebothoma (distinction)	MSc 2010 (UL) Characterization of antibacterial compounds present in <i>Rhus leptodictya</i>	JN Eloff	S Songca
42 Thanyani Ramadwa (distinction)	MSc 2010 (UP). Isolation and characterization of antimicrobial compounds from <i>Funtumia africana</i> (Apocynaceae) leaf extracts	JN Eloff	E Elgorashi
43 Dr Ishaku Leo (distinction)	MSc 2011 (UP). Evaluating plant extracts for anticholinesterase activity	JN Eloff	E Elgorashi
44 Ms Modipa Irene	MSc 2011 (UNW) Isolation of antibacterial compounds from <i>Terminalia gazensis</i>	J Breytenbach	JN Eloff
45 Bellonah Sakong (distinction)	MSc 2011 (UP) Evaluating the safety and efficacy of <i>Curtisia dentata</i> leaf extracts for treating immune compromised patients against <i>Candida</i> infections	L McGaw	JN Eloff
46 Selaelo Raphatlelo (distinction)	MSc 2011 (UP) Development of a product to protect poultry against <i>Aspergillus fumigatus</i> infections	L McGaw	JN Eloff

### 3.1.2 PhD students completed

1 van Rensburg W L	D.Sc 1977 (UOFS). Groeiereserwes by <i>Themeda triandra</i> Forsk	J N Eloff	
2 Krüger, G.H.J.	PhD 1979 (UOFS). The effect of physico-chemical factors relevant to the mass culture of <i>Microcystis</i> under sterile conditions.	J N Eloff	
3 Venter, H.J.T.	PhD 1980 (UOFS). A monograph of <i>Monsonia</i> L.	A Leeuwenberg	J N Eloff
4 van der Westhuizen, A.J	PhD 1984 (UOFS). Biochemiese studies van die toksiene van <i>Microcystis aeruginosa</i>	J N Eloff	
5 Smith, V.R.	PhD 1985 (UOFS). Seasonal dynamics of standing crop and chemical composition in Marion Island (Sub-antarctic) vegetation.	J N Eloff	E M van Zinderen Bakker
5 de Wet, J.S.	PhD 1986 (UOFS). Fitoplankton produksiestudies op Roodeplaatdam.	JU Grobbelaar	J N Eloff
6 Martini, N D	PhD 2002 (UP). Isolation and characterization of antibacterial compounds from <i>Combretum erythrophyllum</i>	J N Eloff	J Snyman
7 Kruger, Johann	PhD 2004 (UP). Isolation and characterization of antibacterial compounds from three <i>Terminalia</i> spp	J N Eloff	D Katerere
8 Ntloedibe, Theresa	PhD 2005 (UP). Potentising and application of plant extracts which can be used as alternative for antibiotic feed additives in poultry production.	J N Eloff	
9 Angeh, Jerry	PhD 2005 (UP). Isolation and characterization of antibacterial compounds present in members of <i>Combretum</i> section <i>Hypocrateropsis</i>	J N Eloff	GE Swan
10 Chikoto, Havana	PhD 2006 (UP). Development of a product derived from plant extracts to replace antibiotic feed additives used in poultry production	J N Eloff	G E Swan

11 Masoko, Peter	PhD 2006 (UP). The characterization of antifungal compounds from <i>Terminalia</i> and <i>Combretum</i> species	J N Eloff	J Picard
12 Samdumu, Faga	PhD 2007 (UP). Isolation of antiviral compounds from <i>Combretum paniculatum</i>	JN Eloff	L J McGaw M van Vuuren
13 Teffo, Snow	PhD 2007 (UP). The use of insects in ethnomedicine	J N Eloff	R Toms
14 Rösemann, Magda	PhD 2007 (UP). Developing sensitive methods to detect pyrrolizidine alkaloids in food	J N Eloff	C J Botha
15 Dr Bizimenyera, Edmund	PhD 2007 (UP). Isolation and characterization of antibacterial compounds from <i>Peltophorum africanum</i>	G E Swan	J N Eloff
16 Shai, Jerry	PhD 2008 (UP). Isolation and characterization of compounds active against <i>Candida albicans</i> from <i>Curtisia dentata</i>	J N Eloff	L J McGaw
17 Nchu Felix	PhD 2009 (UP). Development of formulations and delivery systems for entomopathogenic fungi for control of <i>Amblyomma variegatum</i>	JN Eloff	NK Maniana N Ahmed
18 Mokgotho Phineas	PhD 2010 (UL) Isolation and characterizsion od bioactive compounds from <i>Commelina benghalensis</i> Linn: Biological activity analysis of extracts against Wil-2 NS lymphoma cancer lines and selected pathogenic microorganisms	LJ Mampuru	JN Eloff
19 Suleiman Mohammed	PhD 2010 (UP). Isolation of compounds active against <i>Aspergillus fumigatus</i> and its in vivo activity	JN Eloff	V Naidoo
20 van Heerden Ilse	PhD 2010 (UP). Characterization of antimicrobial plant compounds with proven commercial potential in poultry production	JN Eloff	J Picard
21 Mahlo Salome	PhD 2010 (UP). Characterising and applying plant antifungals from leaves of selected tree species	JN Eloff	LJ McGaw
22 Würger Gabriele	PhD 2010 (UP) A rational in vitro evaluation of 53 medicinal plants used in the treatment of diarrhoea and the potential use of <i>Deinbollia oblongifolia</i> (Sapindaceae) extracts	JN Eloff	LJ McGaw
23 Netshiluvi Thiambi	PhD 2011 (UP) Influence of environmental parameters on efficacy of herbal medicines	JN Eloff	
24 Bagla Victor	PhD 2011 (UP) Developing an in vitro system for detecting biological activity of slow growing parasites to test plant extracts	JN Eloff	LJ McGaw J Godfroid
25 Aroke Ahmed	PhD 2011 (UP) Animal productivity and health properties of polar compounds in extracts of selected plants from SA	JN Eloff	N Moodley V Naidoo LJ McGaw
26 van Wyk Candice	PhD 2011 (UP ) Evaluation of plant extracts to treat oral <i>Candida albicans</i> infections	F Botha	JN Eloff
29 Mukandiwe Lilian	PhD 2012 (UP) Evaluation of plant species that are used to control maggots in production animals	V Naidoo	JN Eloff PJ Masika
30 Olaokun Oyinlola	PhD 2012 (UP) Evaluation of plants used traditionally against diabetes	V Naidoo	JNEloff
31 Adamu Mathew	PhD 2012 (UP) Evaluation of plants species used traditionally to combat helminth infections in production animals	V. Naidoo	JN Eloff
32 van Rijssen Wilna	PhD 2013 (UP) Risk assessment of crop phytopesticides and genetically modified organisms: credible pre-regulatory governance	JN Eloff	J Morris
33 Mawela Gloria	PhD 2013 (UP) Optimization of rantes analogue used as microbicides	JN Eloff	R Chikwambe E Chakauya
34 Nndivhaleni Masheve	PhD 2013 (UP) Isolation and characterization of antifungal compounds from <i>Clerodendron glabrum</i> var <i>glabrum</i> (Verbenaceae) a plant used traditionally to treat candidiasis in Venda, South Africa	JN Eloff	LJ McGaw
35 Richard Nyanzi	PhD 2013 (TUT) Potential health benefits of PhD synbiotic mageu made with multiple probiotic cultures	PJ Jooste	JN Eloff

### 3.2 Current post-graduate students

#### 3.2.1 Current MSc students

Name of student	Degree, 1 <sup>st</sup> registration	Project title	Supervisor	Co-supervisor
Mary Magashoa	MSc 2009	Isolating and characterizing antifungal compounds from <i>Combretum molle</i>	JN Eloff	P Masoko
Cindy Mabunda	MSc 2010	Evaluation of the use of TLC in identifying important herbal medicines used in industry	JN Eloff	R van Brummelen
Dr Erika van Zyl	MSc 2011	The <i>in vitro</i> and <i>in vivo</i> use of plants to control helminth infections in sheep.	JN Eloff	FS Botha
A R Mudau	MSc2012 (UNISA)	Ethnobotanical survey of six medicinal plants and their antifungal activities in Vhembe district, Limpopo Province, South Africa	SM Mahlo	JN Eloff

#### 3.2.2 Current PhD students

Lita Pauw	PhD 2007	Evaluating the predictive value of a database developed from the antimicrobial activities of leaves of several hundred southern African tree species	JN Eloff	
Noluthando Nkoana	PhD 2007	Project on plant extracts promoting animal production to be finalized	JN Eloff	N Crouch
Emelina Mathe	PhD 2009	Evaluation of plant extracts that can be used to treat aspergillosis in animals.	V Naidoo	JN Eloff
Nana Boaduo	PhD 2010	Chemical and microbiological evaluation of a plant species successfully used to replace antibiotic feed additives	JN Eloff	J Wallace
Daniel Shuping	PhD 2010	Potentising extracts of <i>Melanthus</i> species to control plant fungal pathogens	FS Botha	JN Eloff
Tshepiso Makhafola	PhD 2010	Evaluation genotoxicity and antigenotoxicity of plants used traditionally and isolating the active compounds	JN Eloff	L McGaw
Thanyani Ramadwa	PhD 2011	Investigating the metabolism and pharmacokinetics of labelled antifungal compounds from plants	JN Eloff	Jan R Zeevaart
Rinah Sathekge	PhD 2011	Investigating plant extracts to control plant fungal pathogens	FS Botha	JN Eloff
R N Mudziwa	PhD 2012	The variability in agronomic and biological activities within <i>Moringa oleifera</i> plants	E du Toit	T Vahrmeyer JN Eloff
Prudence Kabonga	PhD 2012 UNISA	Evaluating the activity of selected plant extracts against <i>Mycobacterium</i> species infecting animals	LJ McGaw	JN Eloff L Obi
Abimbola Aro	PhD 2012	Evaluating the activity of selected plant extracts against different <i>Mycobacterium</i> species	LJ McGaw	JN Eloff
Salmon Adebayo	PhD 2012 (TUT)	Evaluating plants used traditionally to treat pain and inflammation in humans and animals	JN Eloff	J Shai
Bellonah Sakong	PhD 2013 (UP)	Evaluating plants used for treating diarrhoea	LJ McGaw	JN Eloff
Ishaku Leo	PhD 2013 (UP)	Evaluating the mechanism of activity of extracts and isolated compounds with excellent antifungal activities	JN Eloff	LJ McGaw
Raduis Melong	PhD 2013 (UP)	Identification and structure elucidation of bioactives metabolites from <i>Parkia biglobosa</i> (Fabaceae),	JN Eloff	
Sanusi Mada	PhD 2013 (UP)	The curative effect of aqueous extract of <i>Momordica charantia</i> linn on lead induced genotoxicity in male albino rats	C Botha	JN Eloff
Emmanuel Nyhangare	PhD 2013 (UP)	Evaluating plants that are used traditionally to control ticks in Zimbabwe	JN Eloff	B Mvumi G Fouche
Sanah				
Xolani				

### 3.3 Post doctoral Fellows guided



Name	Research speciality	Period	Funder	Home country
Dr David Katerere	Phytochemistry of Combretaceae	1999-2003	UP	Zimbabwe
Dr Lyndy McGaw	Bioassays, guiding students	2002-2007	Claude Leon	South Africa
Dr John Githiori	Parasitology	2004-2005	NRF	Kenia
Dr Mutalib Aderogba	Phytochemist, anti-oxidant activity	2005-2006	NRF	Nigeria
Dr Ladislaus Mdee	Phytochemist	2005-2007	NRF	Tanzania
Dr Ezekiel Iwalewa	Pharmacologist	2007	NRF	Nigeria
Dr Lyndy McGaw	Toxicology	2008	UP Research Fellow	South Africa
Dr Chima Igwe	Phytochemist	2007-2008	NRF	Nigeria
Dr Esam Elgorashi	Bioassays and guiding students	2008-2009	NRF and UP	Sudan
Dr Babatunde Samuel	Phytochemist	2008-2009	NRF	Nigeria
Dr Isaiah Ademola	Pharmacologist	2008-2009	NRF	Nigeria
Dr Philip Kerr	Chemistry	2009	NRF	Australia
Dr Lyndy McGaw	Bioassays, toxicology	2010-2011	UP Research Fellow	South Africa
Dr Maurice Awouafack	Phytochemistry	2012-2013	UP	Cameroon
Dr Jean Paul Dzoyem	Microbiology	2013-2015	UP	Cameroon

#### 3.4 Obtaining research funds 2000-2013

Origin of research funds	Title of research project or programme	Duration	Funds R
NRF-IKS	Ethnoveterinary medicine infections	2000-2004	c.1 364 000
NRF-EGIC	Quality control and Medicinal Plants	2001-2003	595 000
THRIP partners Biomox Pharmaceuticals, Bioextracts, Healthtech laboratories, Aloe Africa	Phytomedicine in human and animal health	1999-2004	c. 518 000
THRIP	Phytomedicine in human and animal health	1999-2004	c. 518 000
Industrial companies	Several small ad hoc projects\$	2001-2006	c. 90 000
University of Pretoria	Post doctoral fellowships and PDP bursaries	2001-2007	c. 760 000
University of Pretoria	Capital equipment	2000-2006	c. 120 000
Biopad-BRIC	Plant extracts replacing antibiotic feed additives	2004-2005	2 200 000
EU Committee for Developing of Enterprise	Quality Control Monographs African Medicinal Plants. Phase 1	2004-2005	c. 320 000
EU-CTA	International Workshop for AMPS project	2005	c. 160 000
NRF-IKS	Ethnoveterinary medicine infections	2005-2009	2 785 000
NRF-SL	Antimicrobial and antiparasitic plants	2005-2009	1 945 000
UP Veterinary Science Research Committee.	Student projects	2003-2006	c. 159 000
Claude Leon Foundation	Post doctoral fellowship	2004-2007	330 000
University of Pretoria	Commercialization award and Research Fellowship	2007-2008	250 000
EU Committee for Development of Enterprise	Managing Quality Control Monographs African Medicinal Plants Phase 2	2007-2008	c. 536 000
NRF SA Regional Development Cooperation	Agents with antifungal activity against plant fungal pathogens from invasive and weedy species	2005-2007	530 000
NRF Research Niche Area	Phytomedicine and Ethnoveterinary medicine	2007-2012	2 350 000
UP Research Niche Area	Phytomedicine and Ethnoveterinary medicine	2007-2012	900 000
EU Pro€invest	Managing Development of Association for African Medicinal Plant Standards	2007	c. 797 000
NRF Economic Growth	Plant extracts in animal and plant production	2008-2011	1 105 000
NRF Thuthuka Programme	Toxicity of indigenous medicinal plants	2007-2008	196 000
ICART-SADC	Commercial use of SADC plants, book and symposium	2009	c. 249 000
Gesellschaft Pflanzenwissenschaften	Project on diarrhoea of production animals	2009	c. 70 800
NRF South Africa-Belgium KIST initiative	Evaluating genotoxicity of plant extracts	2009-2011	370 000
MRC	Treating opportunistic infections of HIV AIDS patients with tree leaf extracts	2010-2012	390 000
NECSA NTeMBI	Using isotopes to evaluate bioavailability and metabolism of bioactives compounds isolated from plants	2011-2013	180 000
Eskom NSTF award for capacity development	For delivering 21 PhD and 27 MSc students past ten years 84% black students	2012	100 000
MRC	Research on treating infection related diarrhoea with plant based products	2013-2015	600 000
UP post doctoral fellowships	Various aspects on Phytochemistry and microbiology of medicinal plants	2012-2015	600 000
TIA Tshwane Animal Health Cluster	Collaboration with CSIR to find commercially useful products from plants to control ticks and parasites	2013-2016	2 100 000

#### 4. RESEARCH OUTPUTS

##### 4.1 Publications in peer-reviewed journals and published full-length conference papers and chapters in books

1965

1. ELOFF, J N. 1965. Extraction of soil humic compounds with sodium hydroxide plus stannous chloride. South African Journal of Agricultural Science 8: 673-680.

1967

2. ELOFF, J N and N GROBBELAAR. 1967. Isolation and characterization of N-methyl-L-alanine, a novel amino acid from Gifblaar (*Dichapetalum cymosum*). Journal of the South African Chemical Institute 20: 190-193.

1968

3. ELOFF, J N and N GROBBELAAR. 1968. The microscale synthesis of fluoroacetate-2-14C. South African Journal of Science 64: 252-254.

1969

4. ELOFF, J N and N GROBBELAAR. 1969. Isolation and characterization of N-methyl-L-serine from *Dichapetalum cymosum*. Phytochemistry 8: 2201-2204.

1970

5. ELOFF, J N and L FOWDEN. 1970. The isolation of Hypoglycin A and related compounds from *Billia hippocastanum*. Phytochemistry 9: 2423-2424.

1971

6. ELOFF, J N and B VON SYDOW. 1971. Experiments on the fluoroacetate metabolism of *Dichapetalum cymosum* (Gifblaar). Phytochemistry 10: 1409-1415.

1972

7. ELOFF, J N. 1972. Evidence for the occurrence of a Krebs cycle in the fluoroacetate containing plant *Dichapetalum cymosum*. Zeitschrift für Pflanzenphysiologie 67: 207-211.

8. ELOFF, J N. 1972. The occurrence and other aspects of N-methyl-alanine (NMA) and N-methyl-serine (NMS) in *Dichapetalum cymosum* (Engl.) (Gifblaar) and other members of the Dichapetalaceae. Transactions of the Royal Society of southern Africa 40: 41-47.

9. ELOFF, J N and N GROBBELAAR. 1972. A preliminary evaluation of the metabolic fate of fluoroacetate and acetate in *Dichapetalum cymosum* and *Parinari capensis*. Journal of the South African Chemical Institute 25: 109-114.

1973

10. TUSTIN, R C, S J VAN RENSBURG and J N ELOFF. 1973. Hepatic damage in the primate following ingestion of toxic algae. Proceedings of the International Liver Congress. S J Saunders & J Terblanche (eds.). pp. 383-385. Pitman, London.

1975

11. ELOFF, J N and F W PAULI. 1975. The extraction and electrophoretic fractionating of soil humic compounds. Plant and Soil 42: 413-422.

12. KESSEL, M and J N ELOFF. 1975. The ultrastructure and development of the colonial sheath of *Microcystis marginata*. Arch. Microbiol. 106: 209-214.

1976

13. ELOFF, J N, Y STEINITZ and M SHILO. 1976. Photo-oxidation of cyanobacteria in natural conditions. Applied Environmental Microbiology 31: 119-126.

1977

14. ELOFF, J N. 1977. The absorption of oxygen from liquid cultures of blue-green algae by alkaline pyrogallol. Journal of the Limnological Society of southern Africa 3: 13-16.

15. KRUGER, G H J and J N ELOFF. 1977. The influence of light intensity on the growth of different *Microcystis* isolates. Journal of the Limnological Society of southern Africa 3: 21-25.

16. PRETORIUS J A and J N ELOFF. 1977. Occurrence of nannocytes in *Microcystis*. South African Journal of Science 73: 245-246.

17. PRETORIUS J A, G H J KRUGER and J N ELOFF. 1977. The release of nannocytes during the growth cycle of *Microcystis*. Journal of the Limnological Society of southern Africa 3: 17-20.

1978

18. ELOFF, J N. 1978. The photo-oxidation of laboratory cultures of *Microcystis* under low light intensities. Environmental Biogeochemistry and Geomicrobiology (W E Krumbein ed.) Vol. 1: The Aquatic Environment. pp. 95-100. Ann Arbor Science, Michigan.

19. KRUGER, G H J and J N ELOFF. 1978a. The effect of temperature on specific growth rate and activation energy of *Microcystis* and *Synechococcus* isolates relevant to the onset of natural blooms. Journal of the Limnological Society of southern Africa 4: 9-20.

20. KRUGER, G H J and J N ELOFF. 1978b. The effect of agitation and turbulence of the growth medium on the growth and viability of *Microcystis*. Journal of the Limnological Society of southern Africa 4: 69-74.

21. KRUGER, G H J and J N ELOFF. 1978c. Mass culture of *Microcystis* under sterile conditions. Journal of the Limnological Society of southern Africa 4: 119-124.

1979

22. KRUGER, G H J and J N ELOFF. 1979a. Chemical changes in growth medium of *Microcystis* growing under stress and non-stress light intensities. Journal of the Limnological Society of southern Africa 5: 11-16.

23. KRUGER, G H J and J N ELOFF. 1979b. The interaction between cell density of *Microcystis* batch cultures and light induced stress conditions. *Zeitschrift für Pflanzenphysiologie* 93: 441-447.
24. BARLOW, D J, W L J VAN RENSBURG, A J H PIETERSE and J N ELOFF. 1979. Effect of phosphate concentration on the fine structure of the cyanobacterium *Microcystis aeruginosa* Kutz Emend. Elenkin. *Journal of the Limnological Society of southern Africa* 5: 79-83.
25. VERHOEVEN, R L and J N ELOFF. 1979. Effect of lethal concentrations of Copper on the ultrastructure and growth of *Microcystis*. *Proceedings of the Electron Microscopy Society of southern Africa* 9: 161-162.
26. VAN WYK, P W, J N ELOFF and R L VERHOEVEN. 1979. Investigation of a membrane bounded inclusion of *Microcystis*. *Proceedings of the Electron Microscopy Society of southern Africa* 9: 157-158.
- 1980**
27. ELOFF, J N. 1980. The amino acid metabolism of *Dichapetalum cymosum* (Gifblaar). I. The biosynthesis of N-methyl-L-alanine and N-methyl-L-serine. *Zeitschrift für Pflanzenphysiologie* 98: 403-410.
28. ELOFF, J N. 1980. The amino acid metabolism of *Dichapetalum cymosum* (Gifblaar). II. The microscale synthesis of N-methyl-L-alanine-14C. *Zeitschrift für Pflanzenphysiologie* 98: 411-417.
29. ELOFF, J N. 1980. The amino acid metabolism of *Dichapetalum cymosum* (Gifblaar). III. The metabolism of N-methyl-L-alanine (NMA). *Zeitschrift für Pflanzenphysiologie* 99: 47-54.
30. AMANN, M J and J N ELOFF. 1980. A preliminary study of the toxins of different *Microcystis* strains. *South African Journal of Science* 76: 419-420.
31. ELOFF, J N, G H J KRUGER and A J VAN DER WESTHUIZEN. 1980. A comparison of multiple container and tubular systems for the large scale laboratory culture of unicellular algae. *Journal of the Limnological Society of southern Africa* 6: 93-95.
- 1981**
32. KRUGER, G H J, J N ELOFF and J A PRETORIUS. 1981. Morphological changes in toxic and non-toxic *Microcystis* isolates at difference irradiance levels. *Journal of Phycology* 17: 52-56.
33. KRUGER, G H J and J N ELOFF. 1981. Defined algal production systems for the culture of micro algae. In: *Waste water for Aquaculture* (Grobelaar J U, Soeder C J and Toerien D F. eds.). University of the Orange Free State Publication, Series C, No. 3, pp. 16-23. Bloemfontein, South Africa.
34. PRETORIUS, J A and J N ELOFF. 1981. Aspects of the growth of *Microcystis aeruginosa* on agar. *Journal of the Limnological Society of southern Africa* 7: 67-71.
35. ELOFF, J N. 1981. Autecological studies on *Microcystis*. *Proceedings of the International Conference: The Water Environment: Algal toxins and health.* ((Carmichael, W.W. ed.). Dayton, Ohio. pp. 71-96.
36. ELOFF, J N and A J VAN DER WESTHUIZEN. 1981. Toxicological studies on *Microcystis*. *Proceedings of the International Conference: The Water Environment: Algal toxins and health.* (Carmichael, W.W. ed.). Dayton, Ohio. pp. 343-364.
37. KRUGER, G H J and J N ELOFF. 1981. The effect of physico-chemical factors on growth relevant to the mass culture of axenic *Microcystis*. *Proceedings of the International Conference: The Water Environment: Algal toxins and health.* (Carmichael, W.W. ed.). Dayton, Ohio. pp. 193-222.
- 1982**
38. ELOFF, J N. 1982. A specific ultraviolet absorbance band of *Microcystis aeruginosa* toxins. *Journal of the Limnological Society of southern Africa* 8: 5-7.
39. VAN DER WESTHUIZEN, A J and J N ELOFF. 1982. Toxin extraction from the blue green alga *Microcystis aeruginosa* by different extraction media. *Journal of the Limnological Society of southern Africa* 8: 76-77.
- 1983**
40. KRÜGER, G H J and J N ELOFF 1983 Effect of CO<sub>2</sub> and HCO<sub>3</sub><sup>-</sup> on photosynthetic oxygen evolution by *Microcystis aeruginosa*. *Zeitschrift für Pflanzenphysiologie* 112, 231-136.
41. KRÜGER, G H J and J N ELOFF 1983 Prevention by carbon dioxide of photoinhibition in *Microcystis aeruginosa*. *Zeitschrift für Pflanzenphysiologie* 112, 237-245.
42. VAN DER WESTHUIZEN, A J and J N ELOFF. 1983. Effect of culture age and pH of culture medium on the growth and toxicity of the blue-green alga *Microcystis aeruginosa*. *Zeitschrift für Pflanzenphysiologie* 110: 155-161.
- 1985**
43. KOCK, J L F, E G GROENEWALD, G H J KRÜGER, J N ELOFF and P M LATEGAN 1985. Extraction of polyphenols and hydrolysis of birdproof sorghum starch. *Journal of the Science of Food and Agriculture* 36: 1140-1144.
44. VAN DER WESTHUIZEN, A J and J N ELOFF. 1985. Effect of temperature and light on the toxicity and growth of the blue-green alga *Microcystis aeruginosa* (UV 006) *Planta* 163: 55-59.
- 1986**
45. VAN DER WESTHUIZEN, A J, J N ELOFF and G H J KRÜGER. 1986 Effect of temperature and light (fluence rate) on the composition of the toxin of the cyanobacterium *Microcystis aeruginosa*. *Zeitschrift für Pflanzenphysiologie* (UV-006) 110: 155-161
- 1987**
46. ELOFF, J.N. 1987. Botanic Gardens and Education in South Africa pp 85-100. In: *Botanic Gardens and the World Conservation Strategy* (Bramwell D., Hammann O., Heywood V. and Syngé H. eds.). Published for IUCN by the Academic Press, London.

47. ELOFF, J N and S LIEDE. 1987. The viability of seed supplied to Botanical Society members by the National Botanic Gardens. Veld and Flora 73(1): 2-9.

1988

48. VAN DER WESTHUIZEN, A J, J N ELOFF and G H J KRUGER (1988). Effect of culture age and pH of the culture medium on the composition of the toxin of the cyanobacterium *Microcystis aeruginosa* (UV-006). South African Journal of Botany 54: 372-374.

49. CARMICHAEL, W W, BEASLEY V, BUNNER D L, ELOFF, J N. et al. 1988. Naming of cyclic heptapeptide toxins of Cyanobacteria (Blue-green algae). Letter to the Editor. Toxicon 26(11): 971-973.

50. VAN DER WESTHUIZEN, AJ, ELOFF, JN KRÜGER, GHJ (1988) .Isolation of several toxins from the cyanobacterium, *Microcystis aeruginosa* (UV-006). S. Afr. J. Sci. 84, 70-71.

1989

51. ELOFF, J.N. & J J A VAN DER WALT 1989. Diversity in Pelargonium - A strategy for survival. JI Australian Geranium Soc., Oct. 1989 pp. 6-8.

52. ELOFF, J N 1989. Planning of a Botanical Garden. In: Proceedings of Tenth Conference of International Association of Botanic Gardens. [Larsen K., Morley B., Schooser, G. eds] Pippert & Koch, Frankfurt pp 104-116.

1990

53. ELOFF, J.N. & L.W. POWRIE 1990. How many plants are needed for ex situ conservation to ensure the subsequent establishment of viable populations. Proc. Int. Symp. Botanic Gardens. Jiangsu Sci. Tech. Nanjing. pp. 91-100.

1994

54. ELOFF, J.N. 1994 Is ex situ conservation a viable option for the conservation of cycads? Cycad 93 Proc. Intern. Conf. Pretoria. pp. 1-3

1997

55. DE K. SOMMERS, J R SNYMAN, M. VAN WYK and J N ELOFF 1997 Lack of bioavailability of mebeverine even after pretreatment with pyridostigmine. Eur. J. Clin. Pharmacology 53: 247-249.

1998

56. ELOFF, J N 1998 Which extractant should be used for the screening and isolation of antimicrobial components from plants? Journal of Ethnopharmacology 60, 1-8.

57. ELOFF, J N 1998 The presence of antibacterial compounds in Anthocleista grandiflora [Loganiaceae] South African Journal of Botany 64, 209-212.

58. MARTINI, N and ELOFF, J N 1998 The preliminary isolation of several antibacterial compounds from *Combretum erythrophyllum* [Combretaceae]. Journal of Ethnopharmacology 62, 255-263.

59. ELOFF J N 1998 A sensitive and quick microplate method to determine the minimal inhibitory concentration of plant extracts for bacteria. Planta Medica 64, 711-714.

60. ELOFF J N 1998 Conservation of Medicinal Plants: Selecting Medicinal Plants for Research and Gene Banking. Monographs in Systematic Botany from the Missouri Botanical Garden 71, 209-222. [In: Conservation of Plant Genes III: Conservation and Utilization of African Plants. Robert P. Adams and Janice E. Adams, eds., Missouri Botanical Garden Press, St. Louis, USA.]

61. ELOFF JN (1998) Ontwikkeling in die natuurwetenskappe het implikasies vir die toekenning van die Havengaprys en die organisasie van die Akademie. (The development of the natural sciences has implications for the allocation of the Havenga Prize and the organization of the Academy). SA Tydskrif vir Natuurwetenskap en Tegnologie 17, 162 -166.

1999

62. ELOFF J N 1999 The antibacterial activity of 27 southern African members of the Combretaceae. South African Journal of Science 95, 148-152.

63. ELOFF J N 1999 It is possible to use herbarium specimens to screen for anti-bacterial components in some plants. Journal of Ethnopharmacology 67, 355-360.

2000

64. ELOFF J N 2000 A proposal on expressing the antibacterial activity of plant extracts - a small first step in applying scientific knowledge to rural primary health care in South Africa. South African Journal of Science 96,116-118.

65. PANZER, A, JOUBERT, A.M., ELOFF, J.N., ALBRECHT,C.F., ERASMUS, E. and SEEGER, J 2000 Chemical analyses of Ukrain, a semisynthetic Chelidonium majus alkaloid derivative, fail to confirm its trimeric structure. Cancer Letters, 160, 237-241.

2001

66. MCGAW L.J., T. RABE, S. SPARG, A.K. JÄGER, J.N. ELOFF and J. VAN STADEN 2001 An investigation into the biological activity of *Combretum* species. Journal of Ethnopharmacology 75, 45-50.

67. ELOFF J.N. 2001 Antibacterial activity of Marula (*Sclerocarya birrea* (A. Rich.) Hochst. subsp. *caffra* (Sond.) Kokwaro) (Anacardiaceae) bark and leaves. Journal of Ethnopharmacology 76, 305-308.

68. ELOFF J. N., A. K. JÄGER and J. VAN STADEN 2001 The stability and relationship between anti-inflammatory activity and antibacterial activity of southern African *Combretum* species. South African Journal of Science 97, 291-293.

2002

69. KOTZE M and ELOFF J N 2002 Extraction of antibacterial compounds from *Combretum microphyllum* (Combretaceae). South African Journal of Botany 68, 62-67.
70. ELOFF J N 2002 Cape Plants . A conspectus of the Cape Flora of South Africa [Goldblatt and Manning]. J. Economic Botany, 56, 210-211
- 2003
71. ELOFF J N, F W JANSEN VAN RIJSSEN, T W NAUDÉ, J P J JOUBERT 2003 What levels of potentially toxic seed should be allowed in grains in South Africa? I. Background and pyrrolizidine alkaloid containing plants. South African Journal of Science 99, 337-344.
72. ELOFF J N 2003] The container and stopper used may have important implications for the storage of plant extracts? South African Journal of Botany 69, 603-604.
- 2004
73. ELOFF J N [2004] Quantifying the bioactivity of plant extracts during screening and bioassay-guided fractionation. Phytomedicine 11, 370-371.
74. MARTINI N D, D R KATERERE and J N ELOFF [2004] Seven flavonoids with antibacterial activity isolated from *Combretum erythrophyllum*. South African Journal of Botany 70, 310-312.
75. KATERERE D R and J N ELOFF [2004] Variation in the chemical composition, antibacterial and anti-oxidant activity of fresh and dried *Acacia* leaf extracts. South African Journal of Botany 70, 303-305.
76. MARTINI N D, D R KATERERE and J N ELOFF [2004] Biological activity of five antibacterial flavonoids isolated from *Combretum erythrophyllum* (Combretaceae) Journal of Ethnopharmacology 93, 207-212.
77. NAIDOO V R, D R KATERERE, G E SWAN and J N ELOFF [2004] Pretreatment of bulbs of *Urginea sanguinense* used in ethnoveterinary medicine influences chemical composition and biological activity. Pharmaceutical Biology 42, 529-533
- 2005
78. MCGAW L J, GEHRING R, KATSOU LIS, L and ELOFF, J N [2005] Is the use of *Gunnera perpensa* extracts in endometriosis related to antibacterial activity? Onderstepoort Journal of Veterinary Research, 72:129-134.
79. MASOKO P, J PICARD AND J.N ELOFF [2005] Antifungal activities of six South African *Terminalia* species (Combretaceae) Journal of Ethnopharmacology 99:301-308
80. BIZIMENYERA E S, G E SWAN, H CHIKOTO and J N ELOFF [2005] Rationale for using *Peltephorum africanum* (Fabaceae) extracts in veterinary medicine? Journal of the South African Veterinary Association 76, 54-58.
81. NCHU F, MAGANO S.R. AND ELOFF J.N. [2005] In vitro investigation of the toxic effects of the extracts of *Allium sativum* bulbs on adults of *Hyalomma marginatum rufipes* and *Rhipicephalus pulchellus*. Journal of the South African Veterinary Association 76, 99-103.
82. MCGAW J and ELOFF JN [2005] Screening of sixteen poisonous plants for antibacterial, anthelmintic and cytotoxic activity in vitro. South African Journal of Botany 71, 302-306.
83. ELOFF JN, FAMAKIN JO and KATERERE DRP [2005] *Combretum woodii* (Combretaceae) leaf extracts have high activity against Gram-negative and Gram-positive bacteria. African Journal of Biotechnology 4, 1161-1166.
84. ELOFF JN, FAMAKIN JO and KATERERE DRP [2005] Isolation of an antibacterial stilbene from *Combretum woodii* (Combretaceae) leaves. African Journal of Biotechnology 4, 1166-1171.
85. KATERERE DR and ELOFF JN [2005] Antibacterial and antioxidant activity of *Sutherlandia frutescens* (Fabaceae) Phytotherapy Research 19, 779-781.
86. NAIDOO VR, ZWEYGARTH E, ELOFF JN and SWAN GE [2005] Identification of anti-babesial activity for four ethnoveterinary plants in vitro. Veterinary Parasitology 130, 9-13.
87. KATERERE D R and J N ELOFF [2005] Management of Diabetes in African Traditional Medicine in Soumyanath, A (Ed.) Traditional Medicines for modern times. Antidiabetic Plants Vol 6. pp 203-220. CRC Taylor and Francis, London
88. MASOKO P and J N ELOFF [2005] The diversity of antifungal compounds of six South African *Terminalia* species (Combretaceae) determined by bioautography. African Journal of Biotechnology 4, 1425-1431.
- 2006
89. ELOFF JN and LJ MCGAW. [2006] Plant extracts used to manage bacterial, fungal and parasitic infections in southern Africa. Ahmad I (Edit.) Modern Phytomedicine: Turning medicinal plants into drugs Wiley-VCH, Germany pp 97-121.
90. KODURO S, GRIERSON DS, ADEROGBA MA, ELOFF JN AND AFOLAYAN AJ (2006) Antioxidant activity of *Solanum aculeastrum* (Solanaceae) berries. International Journal of Pharmacology, 2, 262-264.
91. ADEROGBA MA, OGUNDAINI AO and ELOFF JN (2006) Isolation of two flavonoids from *Bauhinia monandra* and their antioxidative effects. African Journal of Traditional, Complementary and Alternative medicines 3, 59-65.
92. BIZIMENYERA ES, GITHIORI JB, SWAN GE and ELOFF JN (2006) In vitro ovicidal and larvicidal activity of the leaf, bark and root extracts of *Peltephorum africanum* Sond. (Fabaceae) extracts on *Haemonchus contortus* Journal of Animal and Veterinary Advances 5, 608-614.
93. MASOKO P and ELOFF JN (2006) Bioautography indicates the multiplicity of antifungal compounds from twenty-four southern African *Combretum* species (Combretaceae). African Journal of Biotechnology 5, 1625-1647.
94. BIZIMENYERA ES, ADEROGBA MA, ELOFF JN and SWAN GE (2006) Potential of neuroprotective antioxidant-based therapeutics from *Peltephorum africanum*. The African Journal of Traditional, Complementary and Alternative Medicines 4, 99-106.

95. NAIDOO V, CHIKOTO H, BEKKER LC and ELOFF JN (2006) Anti-oxidant compounds in *Rhoicissus tridentata* extracts may explain its antibabesial activity. South African Journal of Science 102, 198-200.
96. ANGEH JE, HUANG X , SATTTLER I, SWAN GE, DAHSE H, HÄRTL A and ELOFF JN (2006) Anti-microbial and anti-inflammatory triterpenoids from *Combretum imberbe* (Combretaceae) Journal of Ethnopharmacology 110, 56-60.
97. BIZIMENYERA ES, GITHIORI JB, ELOFF JN and SWAN GE (2006) In vitro activity of *Peltophorum africanum* (Fabaceae) extracts on the egg hatching and larval development of the parasitic nematode *Trichostrongylus colubriformis* Veterinary Parasitology 142, 336-343.

#### 2007

98. MCGAW LJ, STEENKAMP V and ELOFF JN (2007) Evaluation of *Athrixia* bush tea for cytotoxicity, antioxidant activity, caffeine content and presence of pyrrolizidine alkaloids. Journal of Ethnopharmacology 110,16-22.
99. ANGEH JE, HUANG X , SATTTLER I, SWAN GE, DAHSE H, HÄRTL A and ELOFF JN (2007) Anti-microbial and anti-inflammatory triterpenoids from *Combretum imberbe* (Combretaceae) Journal of Ethnopharmacology 110, 56-60.
100. MASOKO P and ELOFF JN (2007) Screening of 24 South African *Combretum* and 6 *Terminalia* (Combretaceae) species for antioxidant activities. The African Journal of Traditional, Complementary and Alternative Medicines 4, 231-239
101. ANGEH JE, HUANG X , SWAN GE, MÖLLMAN U, SATTTLER I and ELOFF JN (2007) Novel antibacterial triterpenoid from *Combretum padoides* [Combretaceae] Arkivoc ix,113-120.
102. MCGAW L J, D VAN DER MERWE AND ELOFF JN [2007] In vitro anthelmintic, antibacterial and cytotoxic effects of extracts from plants used in South African ethnoveterinary medicine. The Veterinary Journal 173, 366-372.
103. MASOKO P, PICARD J and ELOFF JN [2007] The antifungal activity of twenty-four South African *Combretum* species (Combretaceae). South African Journal of Botany 73, 173-183.
104. ADEROGBA, M. A., MCGAW, L.J., OGUINDAINI, A.O. and ELOFF, J.N [2007] Antioxidant activity and cytotoxicity study of the flavonol glycosides from *Bauhinia galpinii*. Natural Product Research 21, 591-599.
105. ELOFF JN, PICARD J, MASOKO P (2007) Resistance of animal fungal pathogens to solvents used in bioassays. South African Journal of Botany 73, 667-669.
106. IWALEWA EO, MCGAW LJ, NAIDOO V, ELOFF JN (2007) Inflammation: the foundation of diseases and disorders. A review of phytomedicines of South African origin used to treat pain and inflammatory conditions. African Journal of Biotechnology 6, 2868-2885.
107. IWALEWA EO, ADETOGUN GE, DANİYAN OM OSONIYI OR, MCGAW LJ, NAIDOO V and ELOFF JN (2007) Mechanisms of the toxic effect of *Harungana madagascariensis* stem bark extracts on mice. Journal of Tropical Medicinal Plants 8, 184-192.
108. TEFFO LS, TOMS RB and ELOFF JN (2007) Preliminary data on nutritional composition of edible stink-bug, *Encosternum delegorguei* Spinola, consumed in Limpopo Province of South Africa. South African Journal of Science 103, 434-436.

#### 2008

109. BIZIMENYERA ES MEYER S, NAIDOO V, ELOFF JN and SWAN GE (2008) Efficacy of *Peltophorum africanum* Sond. (Fabaceae) extracts on *Haemonchus contortus* and *Trichostrongylus colubriformis* in sheep. Journal of Animal and Veterinary Advances 7, 364-371.
110. NAIDOO V, MCGAW LJ, BISSCHOP SPR, DUNCAN N and ELOFF JN (2008) The value of plant extracts with antioxidant activity in attenuating coccidiosis in broiler chickens. Veterinary Parasitology 153, 214-219.
111. MCGAW LJ, LALL N, HLOKWE TM, MICHEL AL, MEYER JJM and ELOFF JN. (2008) Purified compounds and extracts from *Euclea* species with antimycobacterial activity against *Mycobacterium bovis* and fast-growing mycobacteria. Biological and Pharmaceutical Bulletin 31,1429-1433.
112. MASOKO P., MDEE L.K., ELOFF J.N/ (2008) Biological activity of two related triterpenes isolated from *Combretum nelsonii* (Combretaceae) leaves. Natural Products Research 22, 1074-1084
113. SHAI , LJ, LJ MCGAW, MA ADEROGBA, LK MDEE AND JN ELOFF (2008) Four pentacyclic triterpenoids with antifungal and antibacterial activity from *Curtisia dentata* (Burm.f) C.A. Sm. leaves. Journal of Ethnopharmacology 119, 238-244.
114. MCGAW LJ and ELOFF JN (2008) Ethnoveterinary use of southern African plants and scientific evaluation of their medicinal properties. Journal of Ethnopharmacology 119, 559-574.
115. ELOFF JN, KATERERE DR , MCGAW LJ (2008).The biological activity and chemistry of the southern African Combretaceae. Journal of Ethnopharmacology 119, 686-699.
116. KATERERE D and ELOFF JN (2008) Antibacterial and antioxidant activity of *Hypoxis hemerocallidea* (Hypoxidaceae): Can leaves be substituted for corms as a conservation strategy? South African Journal of Botany 74, 613-616.
117. L.J. SHAI, L.J. MCGAW, P. MASOKO and J.N. ELOFF (2008) Antifungal and antibacterial activity of seven traditionally used South African plant species active against *Candida albicans*. South Africa Journal of Botany 74, 677-684.
118. MCGAW LJ, LALL, N., MEYER, J.J.M. and ELOFF JN (2008) The potential of South African plants against *Mycobacterium infections*. Journal of Ethnopharmacology 119, 482-500.
119. ELOFF JN and MCGAW LJ (2008) Application of plant extracts and products in Veterinary Medicine. In Ahmad, I. and Aqil F (Edts.), New strategies combating bacterial infection pp 205-228, Wiley-VCH, Weinheim.

120. NCHU F, MAGANO S, ELOFF JN (2008) In vitro antitick properties of the essential oil of *Tagetes minuta* L. (Asteraceae) on *Hyalomma marginatum rufipes* Koch, (Acari: Ixodidae) pp 50-55, in *Harvesting Knowledge Pharming Opportunities 2008* In Scaife J.R. and Vercoe P.E.(Eds) British Society of Animal Science. ISBN 13: 9780906562635.
121. M. A. ADEROGBA, L.J. MCGAW, A.O. OGUNDAINI AND J.N. ELOFF (2008) Cytotoxicity study of antioxidant flavonoids from *Bauhinia tomentosa* leaf extract.. *Nig. J. Nat. Prod. and Med.*, 12, 50-54.
122. J N ELOFF, C Franz (2008) *Arzneipflanzenweltkongress WOCMAP IV in Kapstadt/Südafrika. Zeitschrift für Arznei & Gewurstpflanzen* 13, 49.
123. P. Masoko, L.K. Mdee, L.J. Mampuru and J.N. Eloff (2008) Biological activity of two related triterpenes isolated from *Combretum nelsonii* (Combretaceae) leaves. *Natural product research* 22, 1074-1084.
124. Muraina IA, Adaudi AO, Mamman M, Kazeem HM and Eloff JN (2008) Effects of geographical location on the yield and bioactivity of *Anoigeissus leiocarpus* *Journal of Pharmacy and Bioresources* 5, 69-72.

#### 2009

125. E.O. IWALEWA, V. NAIDOO, V. BAGLA, J.N. ELOFF (2009) Nitric oxide producing effect of six extracts from *Harungana madagascariensis* stem bark. *African Journal of Pharmacy and Pharmacology*, 3, 14-21.
126. MURAINA IA, PICARD J and ELOFF J.N. (2009) Development of a reproducible method to determine minimum inhibitory concentration (MIC) of plant extract against a slow growing mycoplasma organism. *Phytomedicine* 16, 262-264.
127. F. NCHU, N.K. MANIANIA, A. TOURE, A. HASSANALI, J.N. ELOFF (2009) The use of a semiochemical bait to enhance exposure of *Amblyomma variegatum* (Acari: Ixodidae) to *Metarhizium anisopliae* (Ascomycota: Hypocreales). *Veterinary Parasitology* 160, 279-284.
128. MDEE L.K., MASOKO P and ELOFF J.N (2009) The activity of extracts of seven common invasive plant species on fungal phytopathogens. *South African Journal of Botany* 75, 375-379.
129. I.A. MURAINA, M.M.SULEIMAN, J.N.ELOFF (2009) Can MTT be used to quantify the antioxidant activity of plant extracts? *Phytomedicine* 16, 665-668.
130. IWALEWA EO, SULEIMAN MM, MDEE LK and ELOFF JN (2009) Antifungal and antibacterial activities of different extracts of *Harungana madagascariensis* stem bark. *Pharmaceutical Biology* 47, 878-885.
131. KAIKABO A A., B B. SAMUEL AND J N. ELOFF (2009) Isolation and activity of two antibacterial biflavonoids from leaf extracts of *Garcinia livingstonei* (Clusiaceae). *Natural Product Communications* 10, 1363-1366
132. SHAI LJ, BIZIMENYERA ES, MCGAW LJ, ELOFF JN (2009) Extracts of the leaves and twigs of the threatened tree *Curtisia dentata* (Cornaceae) are more active against *Candida albicans* and other microorganisms than the stem bark extract *S Afr Journal of Botany* 75, 363-366
133. SHAI LJ, BIZIMENYERA ES, BAGLA V, MCGAW LJ and ELOFF JN (2009) *Curtisia dentata* (Cornaceae) leaf extracts and isolated compounds inhibit motility of parasitic and free living nematodes. *Onderstepoort J Vet Res* 76, 249-256.

#### 2010

134. SULEIMAN M.M., MCGAW L.J., NAIDOO V., ELOFF J.N. (2010) Evaluation of several tree species for activity against the animal fungal pathogen *Aspergillus fumigatus* *South African Journal of Botany* 76, 64–71
135. SULEIMAN M.M., MCGAW L.J., NAIDOO V. and ELOFF J.N. (2010) Detection of antimicrobial compounds by bioautography of different extracts of leaves of selected South African tree species. *African J. Traditional Complementary and Alternative Medicine* 7, 64-78
136. TEFFO L.S., ADEROGBA M.A., ELOFF J.N (2010) Antibacterial and antioxidant activities of four kaempferol methyl ethers isolated from *Dodonaea viscosa* Jacq. var. *angustifolia* leaf extracts. *S Afr Journal of Botany* 76, 25-29
137. NCHU F., ADEROGBA M.A., MDEE L.K. and ELOFF J.N. (2010) Isolation of anti-*Candida albicans* compounds from *Markhamia obtusifolia* (Baker) Sprague (Bignoniaceae). *S Afr Journal of Botany* 76, 54-57
138. MAPHOSA V., P. J. MASIKA, E. S. BIZIMENYERA & J.N. ELOFF (2010) In-vitro anthelmintic activity of crude aqueous extracts of *Aloe ferox*, *Leonotis leonurus* and *Elephantorrhiza elephantina* against *Haemonchus contortus*. *Trop Anim Health Prod.* 42, 301–307
139. ZORLONI A, PENZHORN BL and ELOFF JN (2010) Extracts of *Calpurnia aurea* leaves from southern Ethiopia attract and immobilise ticks. *Veterinary Parasitology* 168, 160-164
140. ELOFF JN (2010) Die groot verskil in chemiese samestelling en antibakteriese aktiwiteit van twee na-verwante *Leonotis* spesies (Lamiaceae) mag taksonomiese waarde hê. *Suid Afrikaanse Tydskrif vir Natuurwetenskap en Tegnologie* 29, 30-38.
141. ADEMOLA, I.O., ELOFF, J.N. (2010) In vitro anthelmintic activity of *Combretum molle* (R. Br. ex G. Don) (Combretaceae) against *Haemonchus contortus* ova and larvae. *Veterinary Parasitol.*, 169, 198-203
142. MASOKO, P., PICARD, J. HOWARD, J. MAMPURU, L. and ELOFF, JN (2010) In vivo antifungal effect of *Combretum* and *Terminalia* species extract on cutaneous wound healing in immunosuppressed rats. *Pharmaceutical Biology*, 48, 1-12.
143. MOKOKA TA, MCGAW LJ, ELOFF, JN (2010) Antifungal efficacy of ten selected South African plant species against *Cryptococcus neoformans* *Pharmaceutical Biology* 48, 397–404
144. SULEIMAN M.M., BAGLA V., NAIDOO V. and ELOFF J.N (2010) Evaluation of selected South African plant species for antioxidant, antiplatelet and cytotoxic activity *Pharmaceutical Biology* 49, 1-8



145. GURIB-FAKIM A., BRENDLER T., PHILLIPS, D., ELOFF, J.N. (Eds) (2010) Green Gold. Success stories using southern African plant species. AAMPS Publishing, Mauritius. ISBN 9789990389098.
146. SHAI LJ, MASOKO, P, MOKGOTHO MP, MAGANO SR, MOGALE AM, N BOADUO and ELOFF JN (2010) Yeast alpha glucosidase inhibitory and antioxidant activities of six medicinal plants collected in Phalaborwa, South Africa. South African Journal of Botany 76, 465-470
147. NCHU F, MANIANIA N K, HASSANALI A, ELOFF, J N (2010) Optimizing modes of inoculation of *Rhipicephalus ticks*(Acari: Ixodidae) with a mitosporic entomopathogenic fungus in the laboratory. Experimental and Applied Acarology 4, 373-382.
148. NCHU F., MANIANIA N.K., HASSANALI A., ELOFF J.N. (2010) Performance of a *Metarhizium anisopliae*-treated semiochemical-baited trap in reducing *Amblyomma variegatum* populations in the field. Veterinary Parasitology 169, 367-372.
149. MURAINA I.A, ADAUDI A.O, MAMMAN M., KAZEEM H.M., PICARD J., MCGAW L.J. AND ELOFF J.N. (2010) Antimycoplasmal activity of some plant species from northern Nigeria compared to the currently used therapeutic agent. Pharmaceutical Biology (2010) 48, 1103-7
150. S.M. Mahlo, L.J. McGaw and J.N. Eloff (2010) Some tree leaf extracts have good activity against plant fungal pathogens. Crop Protection 29, 1529-1533
151. NANA P., MANIANIA N.K., MARANGA R.O., KUTIMA H.L., BOGA H.I., NCHU F., ELOFF J.N. (2010) Attraction response of adult *Rhipicephalus appendiculatus* and *Rhipicephalus pulchellus* (Acari: Ixodidae) ticks to extracts from *Calpurnia aurea* (Fabaceae) Veterinary Parasitology 174, 124-130.
152. MASOKO P, PICARD J and ELOFF JN (2010) Evaluation of the in vivo toxicity and wound healing activity of selected *Combretum* and *Terminalia* species extracts (Combretaceae). Onderstepoort Journal of Veterinary Research 77(1):Art. #2, 7pages. DOI: 10.4102/ojvr.v77i1.2
153. ELOFF, J N, MCGAW L J (2010) Methods and procedures used in the quality control of African Herbal Pharmacopoeia products in: African Herbal Pharmacopoeia (Eds Brendler T, Eloff JN, Gurib Fakim A, Phillips D), AAMPS publishing, Mauritius ISBN 9789990389098
154. NANA P., MANIANIA N.K., MARANGA R.O., KUTIMA H.L., BOGA H.I., NCHU F., ELOFF J.N. (2010) Attraction response of adult *Rhipicephalus appendiculatus* and *Rhipicephalus pulchellus* (Acari: Ixodidae) ticks to extracts from *Calpurnia aurea* (Fabaceae) Veterinary Parasitology 174, 124-130.
155. MASOKO P, GOLOLO S.S, MOKGOTHO M.P, ELOFF J.N, HOWARD R.L, MAMPURU L.J. (2010) Evaluation of the antioxidant, antibacterial, and antiproliferative activities of the acetone extract of the roots of *Senna italica* (Fabaceae). African Journal of Traditional Complementary and Alternative Medicine 7, 138 – 148

## 2011

156. ADEMOLA IO and ELOFF JN (2011) Anthelmintic activity of acetone extract and fractions of *Vernonia amygdalina* against *Haemonchus contortus* eggs and larvae Tropical Animal Health and Production 43, 521-527.
157. BISI-JOHNSON MA, OBI CL, OSHIMA THY, LI S, KAMBIZI L, ELOFF JN, VASAIKAR SD (2011) Evaluation of the antibacterial and anticancer activities of some South African medicinal plants BMC Complementary and Alternative Medicine 2011, 11:14
158. ADEMOLA, IO; ELOFF, JN (2011) in vitro anthelmintic effect of *Anogeissus leiocarpus* (dc.) Guill. & Perr. leaf extracts and fractions on developmental stages of *Haemonchus contortus*. African Journal of Traditional, Complementary and Alternative medicines 8, 134-139.
159. ADEMOLA IO and ELOFF JN (2011) Ovicidal and larvicidal activity of *Cassia alata* leaf acetone extract and fractions on *Haemonchus contortus*: In vitro studies. Pharmaceutical Biology 49, 539-544
160. ELOFF JN , NTLOEDIBE DT and VAN BRUMMELEN R (2011-) A simplified but effective method for the quality control of medicinal plants by planar chromatography African Journal of Traditional, Complementary and Alternative medicines 8, 1-12.
161. VATTA A.F., KANDU-LELO C, ADEMOLA I.O. and ELOFF J.N. (2011) Direct anthelmintic effects of *Cereus jamacaru* (Cactaceae) on trichostrongylid nematodes of sheep: in vivo studies. Veterinary Parasitology 180, 279-286
162. MAGANO S R, NCHU F and ELOFF J N (2011) In vitro investigation of the repellent effects the essential oil of *Lippia javanica* (Burn. F.) Spreng (Verbenaceae) on adults of *Hyalomma marginatum rufipes* African Journal of Biotechnology 10, 8970-8975
163. MOGALE M A, LEBELO S L, SHAI L J and ELOFF J N (2011) *Aloe arborescens* aqueous gel extract alters the activities of key hepatic enzymes and blood concentration of triglycerides, glucose and insulin in alloxan-induced diabetic rats. African Journal of Biotechnology 10, 4242-4248.
164. ADEROGBA M.A., MCGAW L.J., BEZABIH M, ABEGAZ B.M. (2011). Isolation and characterisation of antioxidant constituents of *Croton zambesicus* leaf extract. Natural Product Research, 25, 1224-1233.
165. ADEMOLA IO and ELOFF JN (2011) Anthelmintic efficacy of cashew (*Anacardium occidentale* L.) on in vitro susceptibility of the ova and larvae of *Haemonchus contortus* African Journal of Biotechnology 10, 9700-9705
166. F. NCHU, J. B. GITHIORI, L. MCGAW, J. N. ELOFF (2011) Anthelmintic and cytotoxic activities of extracts of *Markhamia obtusifolia* Sprague (Bignoniaceae) Veterinary Parasitology 183, 184-188
167. . KAIKABO A and .ELOFF J.N (2011) Antibacterial activity of two biflavonoids from *Garcinia livingstonei* leaves against *Mycobacterium smegmatis*. Journal of Ethnopharmacology 138, 253-255.
168. F. NCHU, J. B. GITHIORI, L. MCGAW, J. N. ELOFF (2011) Anthelmintic and cytotoxic activities of extracts of *Markhamia obtusifolia* Sprague (Bignoniaceae) Veterinary Parasitology 183, 184-188

## 2012

169. BAGLA VP, MCGAW LJ, ELOFF JN (2012) The antiviral activity of six South African plants traditionally used against infections in ethnoveterinary medicine. *Veterinary Microbiology* 155, 198-206
170. F. NCHU, J. B. GITHIORI, L. MCGAW, J. N. ELOFF (2012) Anthelmintic and cytotoxic activities of extracts of *Markhamia obtusifolia* Sprague (Bignoniaceae) *Veterinary Parasitology* 183, 184-188
171. ADEROGBA M.A., KGATLE D.T., MCGAW. L.J, ELOFF J.N. (2012) Isolation and characterization of antioxidant compounds from *Combretum apiculatum* (Sond.) subsp. *apiculatum* leaf extracts. *South African Journal of Botany*. 79, 125-131
172. BAGLA, VP, MCGAW, LJ; ELOFF, JN (2012) The antiviral activity of six South African plants traditionally used against infections in ethnoveterinary medicine. *Veterinary Microbiology* 155, 198-206
173. MAKHAFOLA T and ELOFF JN (2012) Antibacterial activity against nosocomial pathogens and number of antibacterial compounds present in extracts of five *Ochna* (Ochnaceae) species. *South African Journal of Science* 2012;108, 118-123
174. SULEIMAN M.M., NAIDOO V, ELOFF J.N. (2012) Preliminary Screening of extracts of *Loxostylis alata* A. Spreng. ex Rchb. for antimicrobial and antioxidant activities. *African Journal of Biotechnology* 11, 2340-2348.
175. NANA P, MANIANIA N K, MARANGA R O, BOGA H I, KUTIMA H L, ELOFF JN (2012) Compatibility between *Calpurnia aurea* leaf extract, attraction aggregation, and attachment pheromone and entomopathogenic fungus *Metarhizium anisopliae* on viability, growth, and virulence of the pathogen. *J Pest Sci* 85:109–115
176. NCHU F., MAGANO S., ELOFF JN (2012) In vitro antitick properties of the essential oil of *Tagetes minuta* L. (Asteraceae) on *Hyalomma marginatum rufipes* Koch, 1844 (Acari: Ixodidae) *Onderstepoort Journal of Veterinary Research* 79(1), Art. #358, 5 pages. <http://dx.doi.org/10.4102/ojvr.v79i1.358>
177. MUKANDIWA, L, NAIDOO V, ELOFF JN (2012) In vitro antibacterial activity of seven plants used traditionally to treat wound myiasis in animals in southern Africa. *Journal of Medicinal Plants Research* 6, 4379-4388.
178. NETNOU-NKOANA, N. ELOFF, JN (2012) The South African Floricultural Industry and the Plant Breeders' Rights Act: A Short Review. *World Patent Information* 34, 224-228
179. MUKANDIWA, L., ELOFF, J.N, NAIDOO, V. (2012) Evaluation of plant species used traditionally to treat myiasis for activity on the survival and development of *Lucilia cuprina* and *Chrysomya marginalis* (Diptera: Calliphoridae). *Veterinary Parasitology* 190, 566-572
180. AHMED, A.S., ELGORASHI, E.E. , MOODLEY, N. , MCGAW, L.J. , NAIDOO, V. , ELOFF, J.N. (2012) The antimicrobial, antioxidative, anti-inflammatory activity and cytotoxicity of different fractions of four South African *Bauhinia* species used traditionally to treat diarrhoea. *Journal of Ethnopharmacology* 143, 826-839
181. MUKANDIWA L., ELOFF J.N. and NAIDOO V. (2012) Extracts of four plant species used traditionally to treat myiasis influence pupation rate, pupal mass and adult blowfly emergence of *Lucilia cuprina* and *Chrysomya marginalis* (Diptera: Calliphoridae) *Journal of Ethnopharmacology* 143, 812-818.
182. MAKHAFOLA TJ, SAMUEL BB, ELGORASHI EE AND ELOFF JN (2012) Ochnaflavone and ochnaflavone 7-O-methyl ether two antibacterial biflavonoids from *Ochna pretoriensis* (Ochnaceae) *Nat. Prod. Comm.* 7, 1601-1604.
183. SULEIMAN MM, DUNCAN JN, ELOFF JN AND NAIDOO V (2012) A controlled study to determine the efficacy of *Loxostylis alata* (Anacardiaceae) in the treatment of aspergillosis in a chicken (*Gallus domesticus*) model in comparison to ketoconazole. *BMC Veterinary Research* 8, 210
184. MOROBE IC, MTHETHWA NS, BISI-JOHNSON MA, VASAIKAR SD, OBI CL, OYEDEJI AO, KAMBIZI L, ELOFF JN, HATTORI T Cytotoxic Effects and Safety Profiles of Extracts of Active Medicinal Plants from South Africa. *Journal of Microbiology Research* 2, 176-182
185. BISI-JOHNSON MA, OBI CL, ELOFF JN, SAMUEL BB, BABA K, VASAIKAR S., ADEFISOYE M A (2012) Can herbal remedies be the answer to multidrug resistance? Profile of drug resistance in *Salmonella* species in Eastern Cape, South Africa. *Journal of Experimental and Integrative Medicine* 2: 147-153
186. ADAMU M; NAIDOO, V., ELOFF, J N (2012) Some southern African plant species used to treat helminth infections in ethnoveterinary medicine have excellent antifungal activities *BMC Complementary and Alternative Medicine* Volume: 12, 213

## 2013

187. AWOUAFACK MD, TANE P, ELOFF JN (2013) Two new antioxidant flavones from the twigs of *Eriosema robustum* (Fabaceae). *Phytochemistry Letters* 6, 62-66.
188. ELISHA I.L, ELGORASHI E.E., HUSSEIN A.A., DUNCAN G., ELOFF J.N. (2013) Acetylcholinesterase inhibitor from the bulb of *Ammocharis coranica* (Ker-Gawl.) Herb. *S Afr. J. Bot* 85, 44–47
189. GURIB-FAKIM A, ELOFF JN (Eds) (2013) *Chemistry for Sustainable Development in Africa*. 255 pp Springer Verlag.
190. ADAMU M, ELOFF JN, NAIDOO V (2013) Efficacy and toxicity of thirteen plant leaf acetone extracts used in ethnoveterinary medicine in South Africa on egg hatching and larval development of *Haemonchus contortus*. *BMC Veterinary Research* 2013 9:38. DOI: 10.1186/1746-6148-9-38
191. JANSEN VAN RIJSEN FW, MORRIS EJ, ELOFF JN (2013) A critical scientific review on South African governance of GMOs. *African Journal of Biotechnology* 12, 5010-5021

192. MASEVHE NA, AWOUAFACK M, AHMED AS, MCGAW LJ, ELOFF JN (2013) Clerodendrumic acid, a new triterpenoid from *Clerodendrum glabrum* (Verbenaceae) and antimicrobial activity of fractions and constituents. *Helvetica Chimica Acta* 63, 1693-1703
193. OLAOKUN OO, MCGAW LJ, ELOFF JN, NAIDOO V (2013) Evaluation of the inhibition of carbohydrate hydrolysing enzymes, antioxidant activity and polyphenolic content of extracts of ten African *Ficus* species (Moraceae) used traditionally to treat diabetes. *BMC Complementary and Alternative Medicine* 13: 94 DOI: 10.1186/1472-6882-13-94
194. MOKOKA TA, MCGAW LJ, MDEE LK, BAGLA VP, IWALEWA EO, ELOFF JN (2013) Antimicrobial activity and cytotoxicity of triterpenes isolated from leaves of *Maytenus undata* (Celastraceae). *BMC Complementary and Alternative medicine* 13:111 DOI: 10.1186/1472-6882-13-111
195. MOKGOTHO MP, GOLOLO SS, MASOKO P, MDEE LK, MBAZIMA VG, SHAI LJ, BAGLA VP, ELOFF JN and MAMPURU LJ (2013) Isolation and chemical structural characterisation of a compound with antioxidant activity from the roots of *Senna italica*. *Evidence-Based Complementary and Alternative Medicine* 2013 Article ID 519174, 6 pages <http://dx.doi.org/10.1155/2013/519174>
196. MAHLO, SM, MCGAW LJ, ELOFF JN (2013) Antifungal activity and cytotoxicity of isolated compounds from leaves of *Breonadia salicina* *Journal of Ethnopharmacology* 148, 909-913.
197. AWOUAFACK MD, MCGAW LJ, GOTTFRIED S, MBOUANGOUERE R, TANE P, SPITELLER M, ELOFF JN (2013) Antimicrobial activity and cytotoxicity of the ethanol extract, fractions and eight compounds isolated from *Eriosema robustum* (Fabaceae). *BMC Complementary and Alternative Medicine* 2013, 13:289
198. AHMED AS, MCGAW LJ, ELOFF JN, 2013 Evaluation of pharmacological activities, cytotoxicity and phenolic composition of four *Maytenus* species used in southern African traditional medicine to treat intestinal infections and diarrhoeal diseases. *BMC Complementary and Alternative medicine* 2013, 13:100. DOI: 10.1186/10.1186/1472-6882-13-100 (15 pages)
199. SHAI, JL, CHAUKE MA, MAGANO AM, ELOFF JN (2013) Antibacterial activities of 16 plant species from Phalaborwa Limpopo Province, South Africa. *Journal of medicinal plants research* 7, 1899-1906.
200. JANSEN VAN RIJSEN F W, MORRIS, E J.; ELOFF, J N (2013) Food Safety: Importance of the Composition of Assessing Genetically Modified Cassava (*Manihot esculenta* Crantz) *J. Agric. Food Chem* 61 (35), 8333–8339
201. MUKANDIWA L, AHMED A, NAIDOO V, ELOFF JN (2013) Isolation of seselin isolated from *Clausena anisata* (Rutaceae) leaves and its effects on the feeding and development of *Lucilia cuprina* larvae may explain its the use in ethnoveterinary medicine to treat myiasis. *J Ethnopharmacology* 150, 886-891
202. AWOUAFACK MD, MCGAW LJ, GOTTFRIED S, MBOUANGOUERE R, TANE P, SPITELLER M and ELOFF JN (2013) Antimicrobial activity and cytotoxicity of the ethanol extract, fractions and eight compounds isolated from *Eriosema robustum* (Fabaceae). *BMC Complementary and Alternative Medicine* 2013 13:289. <http://www.biomedcentral.com/1472-6882/13/289> (9 pages)
203. SULEIMAN MM, MAMMAN M, NAIDOO V, TAUHEED M, ELOFF JN. (2013) Antiinflammatory and antinociceptive activities of *Loxostylis alata* A. Spreng. *Exrchb (Anacardiaceae)*. *American Journal of Research Communication*, 2013:} [www.usa-journals.com](http://www.usa-journals.com), ISSN: 2325-4076
204. AWOUAFACK MD, TANE P, KUETE V and ELOFF JN (2013) Sesquiterpenes from the medicinal plants of Africa pp. 33-103 in KUETE V (Ed) *Medicinal Plant Research in Africa. Pharmacology and Chemistry*. Elsevier
205. MCGAW LJ, BAGLA VP, STEENKAMP PA, FOUCHE G, OLIVIER J, ELOFF JN AND MYER MS 2013 Antifungal and antibacterial activity and chemical composition of polar and non-polar extracts of *Athrixia phyllicoides* determined using bioautography and HPLC. *BMC Complementary and Alternative Medicine* 13:356 (11 pages) doi:10.1186/1472-6882-13-356
- 2014
206. WÜRGER G, MCGAW LJ and JN ELOFF (2014) Tannin content of leaf extracts of 53 trees used traditionally to treat diarrhoea is an important criterion in selecting species for further work. *S. Afr. J. Botany* 90, 114-117.
207. NDJATEU FS ; B TSAFACK RB ; NGANOU BK; AWOUAFACK MD; WABO HK; TENE M; TANE P; ELOFF JN (2014) Antimicrobial and antioxidant activities of extracts and ten compounds from three Cameroonian medicinal plants: *Dissotis perkinsiae* (Melastomaceae), *Adenocarpus mannii* (Fabaceae) and *Barteria fistulosa* (Passifloraceae) *S. Afr. J. Botany* 91, 37–42.
208. MCGAW LJ and ELOFF JN (2013) African plants with potential for development into ethnoveterinary products pp xx-yy In Press in GURIB-FAKIM (A Ed) *Novel Plant Bioresources: Applications in Food Medicine and Cosmetics*. John Wiley
209. ELOFF JN and MCGAW LJ (2013) Using African plant biodiversity to combat microbial infections pp xx-yy. In Press in GURIB-FAKIM A (Ed) *Novel Plant Bioresources: Applications in Food Medicine and Cosmetics*. John Wiley
210. MAHLO SM and ELOFF JN (2013) Acetone leaf extracts of *Breonadia salicina* (Rubiaceae) and ursolic acid protects oranges against infection by *Penicillium* species In Press *S. Afr. J. Botany*
211. MAKHAFOLA TJ., MCGAW LJ, ELOFF JN 2013 In vitro cytotoxicity and genotoxicity of five *Ochna* species (Ochnaceae) with excellent antibacterial activity. In Press *S. Afr. J. Botany*
212. BOADUO, NKK, KATERERE, D. ELOFF, JN and NAIDOO V Evaluation of six plant species used traditionally in the treatment and control of diabetes mellitus. In Press *Pharmaceutical Biology*

Impact factor of scientific journals used for several publications from Phytomedicine Programme

Journal	number of publications	5year impact factor
---------	------------------------	---------------------

Journal of Ethnopharmacology	19	3.32
Phytomedicine	5	3.26
Veterinary Parasitology	13	2.61
BMC Compl. & Altern. Medicine	9	2.08
South African Journal of Botany	22	1.50
Pharmaceutical Biology	8	1.06
South African Journal of Science	11	0.84

According to Google Scholar there have been 4872 citations to my publications with an h-index of 32 and an i10 of 79. Since 2009 these values were 2998, 27 and 60 (9 Jan 2014).

#### 4.2 Books and Book reviews

1. Eloff J N 1986. Cellular Interactions. [H F L J Heslop-Harrison, ed.]. South African Journal of Botany 52(2)
2. Eloff J N 1990. Combretaceae in southern Africa. [D J Carr], Veld & Flora 76.
3. Eloff J N 2002 Cape Plants . A conspectus of the Cape Flora of South Africa [P Goldblatt, J Manning]. J. Economic Botany, 56 210-211.
4. Eloff JN 2005 Broodbome met spesiale verwysing na die Suid-Afrikaanse soorte [N Grobbelaar]. SA Tydskrif vir Natuurwetenskap en Tegniek 24, 48
5. Gurib-Fakim A, Brendler, T, Phillips D and Eloff JN 2009 (Eds) Greengold: Success stories in the economic use of SADC indigenous plants. AAMPS publication, Mauritius.
6. Brendler, T, Eloff JN Gurib-Fakim A and Phillips D. 2010 (Eds) The African Herbal Pharmacopoeia. AAMPS publication, Mauritius.
7. Gurib-Fakim A and Eloff JN 2012 (Eds) Chemistry for sustainable development in Africa. International Council for Science, Springer.

#### 4.4 Published conference abstracts (Only started keeping a record of last few years)

##### 1998

1. Eloff JN 1998 A new microplate method to determine the minimal inhibitory concentration of plant extracts for bacteria. Pharmacological Soc. S. Afr. Congress, Oct, S. Afr. J. Sci. 94, vii.
2. Eloff JN 1998 Can herbarium material be used to prospect for antibacterial components in plants? Pharmacological Soc. S. Afr. Congress, Oct, 1998 S. Afr. J. Sci. 94, vii.

##### 2003

3. H Chikoto and JN Eloff. 2003 Extraction of grape seed to produce proanthocyanidin rich extract. International Society of Ethnopharmacology Pretoria, January 2003 South African Journal of Botany 69: 227
4. JN Eloff. 2003 Antibacterial assays of plant extracts by agar diffusion assay may give misleading results. International Society of Ethnopharmacology, Pretoria, January 2003. South African Journal of Botany 69: 229.
5. JN Eloff, FWJ van Rijssen, TW Naude and JPJ Joubert. 2003 What levels of potentially toxic pyrrolizidine alkaloid containing seed should be allowed in grains in South Africa. International Society of Ethnopharmacology, Pretoria, January 2003. South African Journal of Botany 69: 229.
6. J Famakin, JN Eloff and DRP Katerere. 2003 Combretastatins B5 isolated from *Combretum woodii* leaves has substantial antibacterial activity. International Society of Ethnopharmacology, Pretoria, January 2003. South African Journal of Botany 69: 230.
7. DRP Katerere and JN Eloff. 2003 Antibacterial and antioxidant activity of some *Acacia* spp. in South Africa. International Society of Ethnopharmacology, Pretoria, January 2003. South African Journal of Botany 69: 255.
8. DRP Katerere and JN Eloff. 2003 Antibacterial and antioxidant activity of *Sutherlandia frutescens*. International Society of Ethnopharmacology, Pretoria, January 2003. South African Journal of Botany 69: 234.
9. JP Kruger, JN Eloff and DRP Katerere. Antibacterial compounds present in *Terminalia sericea* leaves heal bacterial infections on rats. January 2003 South African Journal of Botany 69: 235.
10. JV Manana and JN Eloff. Planar chromatography can be used to evaluate traditional phytomedicines. International Society of Ethnopharmacology, Pretoria, January 2003. South African Journal of Botany 69: 257.
11. DT Ntloedibe and JN Eloff. Investigation of commonly used herbal medicines for antibacterial activity. International Society of Ethnopharmacology, Pretoria, January 2003. South African Journal of Botany 69: 240.
12. SA Serage, DRP Katerere and JN Eloff. 2003 Isolation and characterization of three antibacterial flavonoids from *Combretum apiculatum* subsp. *apiculatum*. International Society of Ethnopharmacology, Pretoria, January 2003. South African Journal of Botany 69: 243
13. J N Eloff 2003 Lede van die Combretaceae bevat 'n verskeidenheid verbindings met antibakteriese aktiwiteit. Kongres Biologieafdeling Suid-Afrikaanse Akademie vir Wetenskap en Kuns September 2003, Pretoria. Suid-Afrikaanse Tydskrif vir Natuurwetenskap en Tegnologie 22, 119-120.

14. JN Eloff, L McGaw and D van der Merwe. 2003 Antibacterial, anthelmintic and toxicity of 16 plant species used in ethnoverinary medicine in South Africa. South African Association of Botanists Congress January 2003. South African Journal of Botany 70: 338

#### 2004

15. JN Eloff, N D Martini and DRP Katerere. 2004 Antibacterial, anti-inflammatory and anti-oxidant activity of seven flavonoids isolated from *Combretum erythrophyllum*. South African Association of Botanists Congress January 2004. South African Journal of Botany 70: 338
16. F Nchu, SR Magano and JN Eloff 2004 Developing methods for the screening of ethnoveterinary plants for tick control. Parasitological Society of Southern Africa Congress, September 2004. Journal of South African Veterinary Association 75: 61-71

#### 2005

17. ES Bizimenyera, M Aderogba, JN Eloff and GE Swan 2005 Plants rich in antioxidants warrants study for neurodegenerative diseases. International Conference on Neurosciences, Al Ein, Emirates. Emirates Medical Journal 23: 69.
18. MA Aderogba, ES Bizimenyera AO Ogundain and JN Eloff 2005 The potential of antioxidants from *Bauhinia tomentosa* Linn (Fabaceae) in treatment of neurological disorders. International Conference on Neurosciences, Al Ein, Emirates. Emirates Medical Journal 23: 79.
19. JN Eloff, S Beukes and F Botha 2005 Development and application of a technique to determine MIC values of plant extracts for facultative aerobic acidogenic oral bacteria. Conference South African Association for Botanists, Bloemfontein January 2005. South African Journal of Botany 71: 265.
20. ES Bizimenyera, J B Githiori, J N Eloff and G E Swan (2005) *In vitro* ovicidal and larvicidal activity of *Peltophorum africanum* extracts against parasitic nematodes of small ruminants. Journal of South African Veterinary Association

#### 2006

21. JN Eloff (2006) An approach to develop commercially useful products from plant extracts. South African Association of Botanists Congress Port Elizabeth, January 2006. South African Journal of Botany 72: 320
22. JN Eloff, I Angeh, L. McGaw (2006) A plant antifungal product from *Melianthus comosus* (Melianthaceae) leaf extracts. GA Conference Helsinki September 2006. Planta medica 72: 982
23. JN Eloff (2006) Structure and biological activities of antimicrobial compounds recently isolated from southern African *Combretum* and *Terminalia* species. GA Conference Helsinki September 2006. Planta medica 72: 1038.

#### 2007

24. JN Eloff , I Angeh, LJ McGaw (2007) A potentised leaf extract of *Melianthus comosus* has higher activity against six commercial products used against plant fungal pathogens. South African Association of Botanists Congress Cape Town, January 2007. South African Journal of Botany 73: 286
25. JN Eloff, LK Mdee, P Masoko (2007) Invasive and weedy species can be used as a source of antifungal compounds to control plant fungal pathogens. South African Association of Botanists Congress Cape Town, January 2007. South African Journal of Botany 73: 287
26. LJ McGaw, L J Shai, JN Eloff (2007) *Candida* and *Cryptococcus*: Targets for plant derived antifungals. South African Association of Botanists Congress Cape Town, January 2007. South African Journal of Botany 73: 302.
27. M.A. Aderogba, E.S. Bizimenyera, A.O. Ogundaini, J.N. Eloff (2007) Possible role of *Bauhinia galpinii* in alleviating neurodegenerative disorders. J Environ Neurosci Biomed 2007.1
28. ES Bizimenyera, JN Eloff, GE Swan (2007) The potential of antioxidant-based therapeutics from *Peltophorum africanum* in treatment of neurodegenerative diseases. J Environ Neurosci Biomed 2007; 1:47
29. McGaw, L.J., Bagla, V.P. and Eloff, J.N. 2007. Ethnoveterinary plants with antiviral activity against feline herpes virus type 1. Planta Medica. 73, 810.
30. McGaw, L.J., Lall, N., Hlokwé, T., Michel, A., Meyer, J.J.M., Eloff, J.N. 2007. Bovine tuberculosis: a zoonotic target for medicinal plants. Planta Medica. 73, 882.
31. Eloff, J N, Teffo L S, Toms R B and Aderogba A M (2007) The possible interaction between an edible insect and five antibacterial kaempferol methyl ethers isolated from *Dodonaea viscosa* Jacq. var. *angustifolia* (Sapindaceae) leaf extracts. Planta Medica. 73, 808.
32. Iwalewa E O, Suleiman M M, Mdee M M and Eloff J N (2007) Antifungal and antibacterial activities of six different extracts of Harungana madagascariensis stem bark. Planta Medica. 73, 890.

#### 2008

33. MCGAW LJ, SHAI J, MOKOKA TA, ELOFF JN. (2008) Antifungal constituents of *Curtisia dentata* and *Maytenus undata* active against *Cryptococcus neoformans* and *Candida albicans* : Planta Medica 74, 954-955
34. Eloff JN, Nchu F, Aderogba MA, et al (2008) *Markhamia obtusifolia* (Baker) Sprague (Bignoniaceae) contains compounds active against *Candida albicans* South African journal of Botany 74, 366-366
35. A.A. Kaikabo, M. M. Suleiman, Babatunde B. Samuel, J. N. Eloff (2008) Antibacterial activity of eleven South African plants use in treatment of diarrhoea in folkloric medicine. African Journal of Traditional, Complementary and Alternative Medicine 5, 315-316

36. N. Masevhe, J. N. Eloff (2008) Evaluating plant species used in Venda (RSA) to address HIV/AIDS side effects. *African Journal of Traditional, Complementary and Alternative Medicine* 5, 317-318
  37. K. Mayekiso, J. N. Eloff, L. McGaw (2008) Screening of South African plants for antibacterial and antimycobacterial activity. *African Journal of Traditional, Complementary and Alternative Medicine* 5, 319
  38. M.M. Suleiman, L. J. McGaw, J. Picard, V. Naidoo, J. N. Eloff (2008) Detection of antimicrobial compounds by direct bioautography in some South African plants. *African Journal of Traditional, Complementary and Alternative Medicine* 5, 324-325
  39. Ahmed, C. Igwe, J. N. Eloff (2008) Preliminary studies of the antibacterial activities of *Combretum vendae* leaf extract. *African Journal of Traditional, Complementary and Alternative Medicine* 5, 366-367
  40. Kaikabo, B. B. Samuel, M. M. Suleiman, J. N. Eloff (2008) Evaluation of antibacterial activity of several South African trees and isolation of two biflavonoids with antibacterial activity from *Garcinia livigstonei*. *African Journal of Traditional, Complementary and Alternative Medicine* 5, 372-373
  41. P. Masoko, L. K. Mdee, L. J. Mampuru, J. N. Eloff (2008) Isolation of a antifungal triterpenes from *Combretum nelsonii* (Combretaceae) leaves. *African Journal of Traditional, Complementary and Alternative Medicine* 5, 393-394
  42. Muraina, L. J. McGaw, J. Picard, J. N. Eloff (2008) Preliminary investigation into antimycoplasmal activity of traditionally used Nigerian plants 441-442
  43. M. P. Mokgotho, K. W. Lebogo, V. G. Mbazima, P. Masoko, J. N. Eloff, L. J. Mampuru (2008) Anti-proliferative activity of *Commelina benghalensis* a medicinal plant against wil-2 ns lymphocytes. *African Journal of Traditional, Complementary and Alternative Medicine* 5, 449-450
  44. M. Mokgotho, P. Masoko, V. Mbazima, J. N. Eloff, R. Howard, L. Mampuru (2008) Antimicrobial activity of traditionally used indigenous medicinal plant from Limpopo province. *African Journal of Traditional, Complementary and Alternative Medicine* 5, 450
  45. C. Igwe, J. N. Eloff, R. van Brummelen (2008) Extraction, potentiation and quantitative determination of resveratrol from South African red 'concord' grape pumice using assay-guided methods. *African Journal of Traditional, Complementary and Alternative Medicine* 5, 461-462
  46. C. Igwe, A. Ahmed, O. Olatunji, J. N. Eloff (2008) Evaluation of the methods of production of sweeteners from *Thaumatococcus danielli* and *Synsepalum dulcificum* of Nigerian origin. *African Journal of Traditional, Complementary and Alternative Medicine* 5, 462
  47. J.N. Eloff (2008) A mixture of plant extracts can be more effective than a commercial antibacterial feed additive in poultry challenged with *Clostridium perfringens*. *African Journal of Traditional, Complementary and Alternative Medicine* 5, 468
  48. N. P. M. Komape, L. J. McGaw, J. N. Eloff (2008) Preliminary screening of plant species that may be useful in controlling diarrhoea in production livestock. *African Journal of Traditional, Complementary and Alternative Medicine* 5, 471
  49. J. McGaw, V. P. Bagla, T. A. Mokoka, E. E. Elgorashi, J. N. Eloff (2008) South African ethnoveterinary plant extracts with antimicrobial and antiviral potential. *African Journal of Traditional, Complementary and Alternative Medicine* 5, 472
  50. G. Wuerger, L. J. McGaw, C. Franz, J. N. Eloff (2008) Evaluation of the activity of leaf extracts of trees that have been used to treat diarrhoea in humans and animals. *African Journal of Traditional, Complementary and Alternative Medicine* 5, 475-476
  51. S.M. Mahlo, L. McGaw, J. N. Eloff (2008) Plant antifungal extracts active against plant pathogenic fungi. *African Journal of Traditional, Complementary and Alternative Medicine* 5, 487-488
  52. M. Meela, L. Mdee, J. N. Eloff (2008) Prospects for use of alien invasive weed extracts against fungal phytopathogens. *African Journal of Traditional, Complementary and Alternative Medicine* 5, 488-489
- 2009**
53. Eloff JN, Motsoko M 2009 Can *Combretum erythrophyllum* leaf extracts be used to control cholera in water sources? *South African Journal of Botany* 75, 400
  54. Eloff JN, Rösemann M 2009 LC-MS-MS can distinguish between toxic and non-toxic pyrrolizidine alkaloids in plants. *Scientia Pharmaceutica* 77, 173.
- 2010**
55. Eloff, JN; Suleiman, M; Naidoo, V. 2010 A crude extract of *Loxostylus alata* is as effective in treating aspergillosis in poultry as a commercial drug. *Planta Medica* 76, 405
  56. McGaw, L; Elgorashi, E; Eloff, J. 2010 Cytotoxicity and mutagenicity investigation of extracts of common South African ethnoveterinary plants *Planta Medica* 76,154
  57. Eloff JN 2010 Commercializing of bioactive compounds or extracts from plants. *Revista de Fitoterapia* 10, 168
  58. Eloff JN 2010 The road to developing commercially useful products from plant secondary compounds. *Revista de Fitoterapia* 10, 169
  59. Eloff JN 2010 Extracts or compounds from plants can be as effective as currently used antifungal agents in animal and plant production *J Biotechnology* 150, S5
- 2011**
60. Boaduo NKK, Katerere D, Eloff JN Naidoo V (2011) Evaluation of six plant species used traditionally in the treatment and control of diabetes mellitus in South Africa. *South African Journal of Botany* Volume: 77 Issue: 2 Pages: 515-515

61. Makhafola TJ, Elgorashi EE, Verschaeve L, Eloff JN (2011) Investigation of the genotoxic and antigenotoxic effects of selected South African medicinal plants. : South African Journal of Botany Volume: 77 Issue: 2 Pages: 540-5
62. McGaw LJ, Mokoka, TA, Eloff JN (2011) Selectivity index values for antimicrobial plant extracts differ depending on the type of cytotoxicity assay and the cell culture conditions used. South African Journal of Botany 77, 543
63. Mukandiwe, L, Naidoo V, Eloff JN (2011) The rationale for plant species used traditionally to treat or manage myiasis. South African Journal of Botany 77, 545-546.
64. Eloff JN, Gurib-Fakim A, Brendler TE Phillips D, van Wyk BE (2011) Is the published African Herbal Pharmacopoeia the start or the end of a successful international collaboration? South African Journal of Botany 77, 526-527
65. Eloff J. N.; Mahlo S. N (2011) *Breonadia salicina* (Rubiaceae) extracts are as effective as a commercial fungicide in post-harvest protection of oranges against *Penicillium* infections. *Planta Medica* 77, 1454.

#### 2012

66. Adamu M.; Naidoo V.; Eloff J. N.(2012) Efficacy and toxicity of thirteen plants leaf acetone extracts used in ethnoveterinary medicine in South Africa on the egg and larva of *Haemonchus contortus*. *S.Afr. J. Bot.* 79,174-175
67. Botha F. S.; Van Wyk C.; Bagla V, Eloff J.N. .(2012) The in vitro inhibitory effect of *Ptaeroxylon obliquum* (Thunb.) Radlk. on adhesion of *Candida albicans* to human buccal epithelial cells (HBEC). *S.Afr. J. Bot.* 79,179-179
68. Eloff J. N.; Wuerger G.(2012) Variation in biological activities of leaf extracts of 42 *Combretum molle* plants collected from different areas in Gauteng and Mpumalanga. *S.Afr. J. Bot.* 79,183-183
69. Makhafola T. J.; McGaw L. J.; Eloff J. N.(2012) Antibacterial, cytotoxic and mutagenic effects of five *Ochna* species. *S.Afr. J. Bot.* 79,196-197
70. Masevehe N. A.; Aroke A.; McGaw L. J, Eloff J.N. (2012) Evaluating antioxidant activity and cytotoxicity of the selected South African medicinal plant species. *S.Afr. J. Bot.* 79,197-197
71. McGaw L. J.; Makhafola T. J.; Udom O. O, Eloff J.N. .(2012) Antimycobacterial activity, cytotoxicity and genotoxicity studies of *Ptaeroxylon obliquum* and *Sideroxylon inerme* leaf extracts. *S.Afr. J. Bot.* 79,199-200
72. Antioxidant activities of nine medicinal plants used in treating inflammatory ailments in Zulu traditional medicine of South Africa (2012) Muleya E.; Ahmed A. S.; Sipamla A. M, Eloff J.N. .(2012) *S.Afr. J. Bot.* 79,201-201
73. Olaokun O. O.; McGaw L. J.; Eloff J. N, Eloff J.N. (2012) Antioxidant activity, total polyphenolic content and in vitro inhibition of activity of digestive enzymes significant to diabetes by leaf extracts of ten South African *Ficus* species. *S.Afr. J. Bot.* 79,205-205
74. Sakong B. M.; Ahmed A. S.; McGaw L. J, Eloff J.N. (2012) Isolation and characterization of compounds from *Calodendrum capense* and *Lydenburgia cassinoides* with antimicrobial potential against opportunistic pathogens. *S.Afr. J. Bot.* 79,210-210
75. Ramadwa T. E.; Elgorashi E. E.; Eloff J. N.(2012) Biological activity of methyl ursolate from *Funtumia africana* (Apocynaceae) leaf extracts. *S.Afr. J. Bot.* 79,236-237
76. Van Wyk C.; Botha F. S.; Steenkamp V, Eloff J.N. (2012) The effect of four medicinal plants on oral *Candida albicans* isolates. *S.Afr. J. Bot.* 79,240-240

#### 2013

77. Adamu M., Naidoo V., Eloff J.N. (2013) Some southern African plant species used to treat helminth infections in ethnoveterinary medicine have excellent antifungal activities. *S.Afr. J. Bot.* 86, 146
78. Adebayo S.A., Shai L.J., Eloff J.N. (2013) The screening of selected South African medicinal plants for total phenolics, flavonoids and anti-inflammatory properties. *S.Afr. J. Bot.* 86, 148
79. Eloff J.N., Naidoo V., Mukandiwe L., Adamu M., Suleiman M., McGaw L.J. Extracts of plant species used traditionally or discovered by wide screening can be used to treat production animal infections by blowflies, worms and fungi. *S.Afr. J. Bot.* 86, 158
80. Makhafola T.J., Elgorashi E.E., McGaw L.J., Awouafack M.D, Verschaeve L., Eloff J.N.(2013) Antimutagenic potential of *Combretum microphyllum* methanol leaf extract. *S.Afr. J. Bot.* 86, 158
81. Adamu M., Awouafack M.D., Ahmed A.S., McGaw L.J., Naidoo V., Eloff J.N. (2013) Anthelmintic phloroglucinol derivatives and antifungal activity of fractions from *Leucosidea sericea* (Rosaceae) *S.Afr. J. Bot.* 86, 171
82. Makhafola T.J., McGaw L.J., Elgorashi E.E., Samuel B.B., Eloff J.N. (2013) Biological activity of *Ochna* species. *S.Afr. J. Bot.* 86, 176
83. Abegaz B, Brendler T, Eloff JN, Gurib Fakim A and Phillips D (2013) Beyond the African Herbal Pharmacopoeia: Recent progress towards new quality control standards for African Herbal Products. *Planta Medica* 79, 1123
84. Eloff JN, Mukandiwa L, Naidoo V (2013) Effects of ethnoveterinary plants used to control myiasis caused by blowflies in animals are effective in several mechanisms and may have valuable practical applications. *Planta Medica* 79, 1124.

#### 4.5 Non-refereed scientific publications or popular scientific articles

1. Eloff JN. 1962 The extraction and electrophoretic fractionation of soil humic compounds. MSc. Thesis [Chemistry] Potchefstroom University for C H E.
2. Eloff JN. 1968 Fluorasetaat-, Aminosuur- en Organiese suur-metabolisme van Gifblaar [*Dichapetalum cymosum* Engl.]. D.Sc-thesis [Plant Biochemistry] Potchefstroom University for C H E.
3. Eloff JN 1975. Die dilemma van die moderne Christenbioloog. Eureka 4, 14-16.
4. Eloff JN. 1975 Die Dilemma van die Christenbioloog. Professorial Inaugural Lecture University of the Orange Free State
5. Eloff JN 1983. Help Kirstenbosch to be what it should be. Wildlife Society Newsletter.
6. Eloff JN 1983. Message from the Director-Designate, National Botanic Gardens. Veld and Flora 69(2): 63.
7. Eloff JN 1984. Kirstenbosch, Quo Vadis? Special Report. Veld and Flora 70(4): i-iv.
8. Eloff JN. 1985. Botanic Gardens: Victorian relic or 21st century challenge? Professorial Inaugural Lecture, no 102, University of Cape Town, March 1985 20 pp ISBN 0799209716.
9. Eloff JN. 1985. Conservation through Education - a prime function of the National Botanic Garden. Special Report. Veld and Flora 71(3): i-vii.
10. Eloff, J N. 1986. Ontginning van die groen goud van Suid-Afrika (The development of the green gold of South Africa). Suid-Afrikaanse Tydskrif vir Natuurwetenskap en Tegnologie 5(2): 58-60
11. Eloff, J N. 1987. Plantbenutting: 'n Kernaktiwiteit van die Nasionale Botaniese Tuine (Plant utilization: A core activity of the National Botanic Gardens). Suid-Afrikaanse Tydskrif vir Natuurwetenskap en Tegnologie 6(3): 123-129.
12. Eloff JN 1987. The NBG and the isolation of South Africa. Veld & Flora 73[2]: 41.
13. Eloff JN. 1987. Marketing of the National Botanic Gardens. Veld and Flora 73(2): 62-66.
14. Eloff JN 1988. Yesterday, Today and Tomorrow. The interaction between UCT and the National Botanic Gardens. UCT News Magazine 15: 11-13.
15. Eloff JN 1988 Plantbenutting, 'n kernaktiwiteit van die Nasionale Botaniese Tuine. Sappex News Journal of the South African Protea Producers and exporters Association 58: 10-13.
16. Eloff JN. 1988. NBG Yesterday, Today and Tomorrow: A Managerial Perspective. Veld and Flora 74: 35-41.
17. Eloff JN. 1988. Partners in Conservation. Veld and Flora 74: 33-34.
18. Eloff JN. 1988. Plantbenutting: 'n Kernaktiwiteit van die Nasionale Botaniese Tuine. Sappex News (Journal of the Protea Producers and Exporters Association ) 58: 10-13.
19. Eloff JN. 1988. The threatened plant laboratory. A significant step in the research of the NBG. Veld and Flora 74: 59-61.
20. Eloff JN 1993 The Research Strategic Plan of the National Botanical Institute.
21. Eloff JN et al. 1994. National Botanic Gardens Corporate Plan. 21 pp.
22. Eloff JN 1994 Christen, bewaar jou en jou buurman se leefruimte. Die Voorligter 59 [6]: 8-13
23. Eloff, J.N. 1994 Die kommersialisering van ons inheemse plante in die nuwe Suid-Afrika [Commercializing the inenous plants of the new South Africa] *Suid-Afrikaanse Tydskrif vir Natuurwetenskap en Tegnologie* 13: 34-35.
24. Eloff J N 1998 Ontwikkelings in die Natuurwetenskappe het implikasies vir die toekenning van die Havenga Prize en die organisasie van die Akademie. SA Tydskrif vir Natuurwetenskap en Tegnologie 17, 162-166.
25. Eloff JN. 1999 Biography of R H Compton. New dictionary of South African biography Vol 2, 17-18. Vista University, Pretoria.
26. Eloff J N 2000 Kruiemedisyne waardevolle hulpmiddel of bemarkingsgoudmyn [Herbal medicine: valuable aid or marketing goldmine] SA Tydskrif vir Natuurwetenskap en Tegnologie 19, 70-71.
27. Eloff J N and Swanepoel A C 2003 Waarheen met die Suid-Afrikaanse Tydskrif vir Natuurwetenskap en Tegnologie? Suid-Afrikaanse Tydskrif vir Natuurwetenskap en Tegnologie 22, 49-50
28. Eloff JN 2009 Die dilemma van die Christenbioloog. Woord en Daad 3, 1-8

#### 4.5 Patents



South African Patent **2004/6953 Antimicrobial composition** [The use of a herbal plant extract to combat acidogenic tooth decay bacteria.] 1 September 2004.

South African Patent **2005/07625 Extraction of an antifungal agent from a plant.** Process has been licensed.

South African patent **2006/10011 “ A Plant extract”** on a method to produce grape seed extracts with high antioxidant activity has been granted. Process has been licensed and a product “Bioxidin” is in the market already.

South African patent **2007/04235 “Antimicrobial Extract”** on developing an ointment from a plant extract to combat skin infections has been submitted. Product “Phytobiotic cream” is in the market.

South African patent on protecting animals against blowflies with a plant extract has been registered.

South African patent on protecting sheep against helminths has been submitted

South African patent on controlling Candida infections with a compound more active and safer than commercial antimycotic agent has been submitted

South African patent application on developing a combined plant extract from three non-toxic plants to replace antibiotic feed additives is in preparation

South African patent application on using a product to combat aspergillus in poultry production in preparation.

#### 4.6 Technical reports

- 1 Report on the evaluation of Duphar Combination Autoinjectors. Contract for Armscor to develop a method to determine atropine, obidoxime and phenol in autoinjectors used to prevent nerve gas poisoning in a combat situation. J N Eloff, H J Potgieter and J R Snyman 1997. 18 pp
- 2 Report on Gradation Regulations for toxic seed in South African Grains. Contract with National Oil and Protein Seed Producers Organization. J N Eloff 1999, 12 pp.
- 3 Several reports on medicinal plants to Biomox Pharmaceuticals (Pty) Ltd, to CSIR to Sasol and to BioPAD BRIC.
- 4 Reports to funders of contracts by EU agencies CTA, CDE, PRO€INVEST and ICART-SADC.

## 5. OTHER SCHOLASTIC, RESEARCH BASED CONTRIBUTIONS

### 5.1 Participation in conferences, workshops and short courses -:

#### PAPERS PRESENTED BY JN ELOFF AT NATIONAL CONFERENCES

[Papers delivered by students and co-authors working under my guidance (c. 110 before 2007) not included.]

All are oral papers except where indicated as a poster

1967

1. Metaboliese en ander aspekte van *Dichapetalum cymosum* (Gifblaar). Second Carl Albrecht Lecture of Universities' Science Students Association of South Africa. South African Association for the Advancement of Science Congress, Pretoria, July 1967.
2. Die mikrokaalsintese van natrium fluorasetaat-2-<sup>14</sup>C. South African Association for the Advancement of Science Congress, Pretoria, July 1967.

1969

3. Getuigenis vir die aanwesigheid van die Krebs siklus in die fluorasetaat bevattende plant *Dichapetalum cymosum*. Biologie Afdeling S A Akademie vir Wetenskap en Kuns, Pretoria, June, 1969.
4. Die aminosuurmetabolisme van *Dichapetalum cymosum*. S Afr Society for Plant Physiology Congress, Pietermaritzburg, July 1969.

1970

5. The occurrence and other aspects of N-methyl-alanine [NMA] and N-methyl-serine [NMS] in *Dichapetalum cymosum* [Engl][Gifblaar] and other members of the Dichapetalaceae. Congress Royal Society of South Africa, Cape Town, July 1970.
6. The biosynthesis of N-methyl-L-alanine and N-methyl-L-serine in *Dichapetalum cymosum* (Gifblaar). Current Research and views on amino acids symposium of Royal Society of South Africa. Durban, Natal

1971

6. Fluoroacetate metabolism of Gifblaar [*Dichapetalum cymosum*]. Convention of the South African Chemical Institute, Grahamstown, February 1971.
7. Die fluoroasetaatmetabolisme van Gifblaar (*Dichapetalum cymosum*) S A Society for Plant Physiology, Durban, July 1971.

1972

8. Die mikrokaalsintese van N-metiel-<sup>14</sup>C-L-alanien . Congress of the South African Society for Plant Physiology, Johannesburg, July 1972.

1973

9. Experiments on breaking the cells of *Microcystis aeruginosa*. South African Association for the Advancement of Science, Pretoria July 1973.
10. Enzymology. Fifth National Convention for Teachers of Mathematics and Science, Sasolburg, July 1973.
11. Photoperiodicity. Fifth National Convention for Teachers of Mathematics and Science, Sasolburg, July 1973.

1975

12. Die gebruik van alkaliese pirogallol vir suurstofabsorpsie in blou-groenalgkulture. Suid-Afrikaanse Akademie vir Wetenskap en Kuns, Stellenbosch, June 1975.

1976

13. Die foto-oksidase van blougroenalge onder natuurlike toestande. First Interdisciplinary Conference on Marine and Freshwater Research in southern Africa, Port Elizabeth, July 1976.
14. Die foto-oksidase van *Microcystis* en ander blougroenalge in die natuur. South African Association of Botanists, Cape Town, February 1976.

1977

15. The photo-oxidation of cyanobacteria in natural conditions. Agricultural Congress, Production for a Growing Population, South African Society for Plant Pathology and Microbiology, Pretoria, January 1977.
16. The photo-oxidation of blue-green algae under low light intensities. South African Association of Botanists, Durban, January 1977.
17. Navorsing op die toksiese blou-groen-alg *Microcystis aeruginosa*. Suid-Afrikaanse Akademie vir Wetenskap en Kuns, Potchefstroom, June 1977.
18. Verbroekeling van vakdisiplines in die Biologie. Suid-Afrikaanse Akademie vir Wetenskap en Kuns, Potchefstroom, June 1977.
19. Die taksonomie van *Microcystis* met spesiale verwysing na die skedesamestelling. Limnological Society of southern Africa, Pretoria, July 1977.

1978

20. Taksonomie van *Microcystis*. South African Association of Botanists, Bloemfontein, January 1978.
21. Die opname en gebruik van organiese voedingstowwe, veral aminosure en suikers deur *Microcystis*. South African Association of Botanists, Bloemfontein, January 1978
22. Navorsingsbeplanning met betrekking tot *Microcystis* aan UOVs. Limnological Society of southern Africa, Pietermaritzburg, July 1978.
23. Die invloed van omgewingsfaktore op die groei van *Microcystis*. Limnological Society of southern Africa, Pietermaritzburg, 1978.

1979

24. Ondersoek na faktore wat 'n rol speel by ligsensitiwiteit van *Microcystis* onder laboratoriumtoestande. South African Association of Botanists, Stellenbosch, January 1979.
25. Invloed van hoë ligintensiteit en ligkwaliteit op die groei van *Microcystis*. South African Association of Botanists, Stellenbosch, January 1979.
26. Mikrokaalsintese van N-metiel-L-alanien en metabolisme in Gifblaar (*Dichapetalum cymosum*). South African Association of Botanists, Stellenbosch, January 1979.
27. *Microcystis*-bacteria interactions. Limnological Society of southern Africa, Stellenbosch, June 1979.
28. Gemerkte verbindings in metabolisme. Die biosintese van N-metiel-L-alanien en N-metiel-L-serien en die metabolisme van piruvaat-1,-2 en-3 <sup>14</sup>C in die fluoroasetaatbevattende plant Gifblaar. BIWOVS, Bloemfontein, June 1979.

1980

29. Die interaksie tussen ligsensitiwiteit van *Microcystis* en bakteriese gaswisseling. South African Association of Botanists, Pietermaritzburg, January 1980.
30. The influence of bacterial contaminants on the light sensitivity of *Microcystis* spp. South African Society for Plant Pathology and Microbiology, Bloemfontein, January 1980.
31. Besoedeling van Water. Suid-Afrikaanse Akademie vir Wetenskap en Kuns, Bloemfontein Werkgemeenskap, February 1980.
32. Die invloed van pH op die groei van *Microcystis*. Suid-Afrikaanse Akademie vir Wetenskap en Kuns, Bloemfontein, June 1980.

1982

33. Chemiese karakterisering van toksiene van *Microcystis aeruginosa*. South African Association of Botanists, Pretoria, January 1982.
34. Chemiese studies op die blougroenalg *Microcystis aeruginosa*. Natuurwetenskapstudentevereniging, UOFS, May 1982.
35. The variation of toxicity between different *Microcystis aeruginosa* isolates. Limnological Society of southern Africa, Pretoria, July 1982.

1983

36. Studies on toxins of *Microcystis aeruginosa*. South African Association of Botanists, Johannesburg, January 1983.
37. Die toksiene teenwoordig in isolaat UV-006 van *Microcystis aeruginosa*. Suid-Afrikaanse Akademie vir Wetenskap en Kuns, Potchefstroom, June 1983.
38. Die rol van die jeug in die handhawing en uitbouing van ons natuurêre fenis. Die 25ste Burger Jeugleierskonferensie, Kaapstad, Desember 1983.

1984

39. The taxonomical implications of the multiplicity of toxins in *Microcystis aeruginosa* isolates. South African Association of Botanists, Cape Town, January 1984.
40. *Microcystis* as an example of the present chaos in the chroococcalean taxonomy. Phycological Society of southern Africa, Cape Town, January 1984.
41. The role of the National Botanic Gardens of South Africa in botanical research, education and conservation. South African Association of Botanists, Cape Town, January 1984.

1986

42. The viability of seed supplied by the National Botanic Gardens, Kirstenbosch. South African Association of Botanists, Umtata, January 1986.
43. Die rol van die Nasionale Botaniese Tuine in die beskikbaarstelling van inheemse plante. Afdeling Biologie, Suid-Afrikaanse Akademie vir Wetenskap en Kuns, Stellenbosch, November 1986.

1987

44. The seed supplying function of Botanic Gardens: responsibilities, problems and challenges. South African Association of Botanists, Durban, January 1987.
45. Co-operation between the Nursery Industry and NBG in the use and conservation of our plants. [Keynote address.] The 40th Convention of the South African Nurseryman's Association, Pilanesberg May 1987.
46. *Ex situ* bewaring van plante: sterk wapen of gevaarlike mite in natuurbewaring. Biologie Afdeling Suid-Afrikaanse Akademie vir Wetenskap en Kuns, Pretoria, Junie 1987.
47. Plant utilisation in South Africa. Institute of Parks and Recreation Administration, Cape Town, September 1987. Keynote Address
48. Applications of Biotechnology in Nature Conservation. Royal Society / Experimental Biology Group Symposium, Cape Town, November 1987.

1988

49. Co-operation between Parks and Botanic Gardens in the sustainable utilization of our plants. The 33rd Congress of the Institute of Parks and Recreation Administration [Southern Africa], Cape Town, August 1988.
50. The role of Botanic Gardens in preserving genetic diversity. Conserving Biotic Diversity in southern Africa Conference, Cape Town, January 1988.

1989

51. The future of Botany in South Africa. South African Association of Botanists, Stellenbosch, October 1989.

1990

52. National priorities in plant research and research services. South African Association of Botanists, Grahamstown, January 1990.
53. Die toekoms van die Botaniese Tuin. Noord Transvaaltak van SAGP, October 1990.
54. Die verhouding tussen die NBI en Universiteite. Seminaar SAGP, Universiteit van Pretoria, October 1990.

1991

55. Changing the research culture in the National Botanical Institute. South African Association of Botanists, Durban, January 1991.

1993

56. Will or should the South African Journal of Botany survive in the new South Africa? South African Association of Botanists, University of the Western Cape, January 1993.
57. Biodiversiteit 'n onontginde skatkis. Nasionale kongres van SA Akademie vir Wetenskap en Kuns oor tema "Is biologiese navorsing nog relevant in die toekomstige Suid-Afrika?" Pretoria, June 1993.

1994

58. Teaching Botany for Survival. South African Association of Botanists, University of the Witwatersrand, January 1994.

1996

59. Evaluating the parameters in choosing which medicinal plant to work on. South African Association of Botanists, University of Stellenbosch, January 1996
60. Rol van inheemse plante in primêre mediese sorg in Suid-Afrika. Afdeling Biologie, Suid-Afrikaanse Akademie vir Wetenskap en Kuns, Pretoria, June 1996

1997

62. Comparison of extractants to isolate compounds with antimicrobial activity from plants South African Association of Botanists, University of Fort Hare, January 1997
63. The history, development and future challenges of the South African Journal of Botany South African Association of Botanists, University of Fort Hare, January 1997
64. Ontwikkeling van 'n bio-essajeerproses om anti-mikrobiële aktiwiteit in plantekstrakte te bepaal. Afdeling Biologie, Suid-Afrikaanse Akademie vir Wetenskap en Kuns, Potchef-stroom, June 1997.
65. Which solvent should be used for extracting antimicrobial compounds from plants? Pharmacological Soc. S. Afr. Congress, Mount Aux Sources, Sept 1997 Poster

1998

67. A sensitive and quick microplate method to determine the minimal inhibitory concentration of plant extracts for bacteria. Pharmacological Soc. S. Afr. Congress, Oct, 1998
68. Can herbarium material be used to prospect for antibacterial components in plants? Pharmacological Soc. S. Afr. Congress, Oct, 1998 Poster

1999

69. Analysis of complex *Combretum* extracts to isolate antibacterial compounds. South African Association of Botanists, University of Transkei, Umtata January 1999.
70. *Combretaceae* leaves have high antibacterial activity. Indigenous Plant Use Forum Congress. Richards Bay, July 1999.

2000

71. Antibacterial activity of Maroela bark and leaves Pharmacology and Neurosciences Durban September 2000
72. Quality Control of Herbal Medicine. Indigenous Plant Use Forum Congress. Nelspruit, July 2000.
73. Die antibakteriese aktiwiteit van Maroela bas en blare. Biologieafdeling S A Akademie vir Wetenskap en Kuns, Roodepoort September, 2000
74. 'n Ondersoek na die antibakteriese verbindings in *Combretum imberbe* [Hardekool] blare. Biologieafdeling S A Akademie vir Wetenskap en Kuns, Roodepoort September, 2000

2001

75. Pitfalls in determining antibacterial activity of plant extracts. South African Association of Botanists Congress Johannesburg, January 2001
76. *Combretaceae* a treasure chest of biological activity. South African Association of Botanists Congress Johannesburg, January 2001
77. Methodological problems in determining antibacterial activity of plant extracts. Indigenous Plant Use Forum Congress. Kimberley, July 2001

- 78 From the Laboratory to the Pharmacy or Health Shop. . Indigenous Plant Use Forum Congress. Kimberley, July 2001  
79 Is toxic seed in animal feed a health hazard? Animal Food Manufacturers Association symposium, Pretoria, October 2001

2002

- 80 Dunlaagchromatografie is bruikbaar vir die analise van chemiese diversiteit in die keuse van navorsingsmateriaal, kwaliteitsbeheer van fitomedisyne en wetstoepassing in natuurbewaring. . Biologieafdeling S A Akademie vir Wetenskap en Kuns, Stellenbosch Julie, 2002  
81 Isolation of a Combretatstatin from *Combretum woodii* leaves. Indigenous Plant Use Forum Congress. George, July 2002 [Famakin, Katerere, Eloff]  
82 The use of TLC in identifying commercial herbal medicines Indigenous Plant Use Forum Congress. George, July 2002  
83 Antimicrobial activity of five flavonoids isolated from *Combretum erythrophyllum* Indigenous Plant Use Forum Congress. George, July 2002 [Eloff, Ntloedibe]  
84 Quality control of medicinal plants sold in Pretoria and evaluating the influence of environmental factors on the chemical composition of *Artemisia afra*. Indigenous Plant Use Forum Congress. George, July 2002 [Ntloedibe, Eloff]

2003

- 85 Screening of plants used in ethnoveterinary medicine. Indigenous Plant Use Forum Congress. Rustenburg, July 2003  
86 The occurrence of pyrrolizidine alkaloids in edible grain in South Africa. Congress Toxicology Society of South Africa Johannesburg, June 2003  
87 The use of plant extracts to supplant antibiotic feed additives used in animal production. Association Food Technologists of South Africa Johannesburg, July 2003  
88 Die gebruik van plante in armoedeverligting in Suid-Afrika. Annual Congress Suid-Afrikaanse Akademie vir Wetenskap en Kuns, Pretoria June 2003  
89 Is herbal medicine a trap for the gullible or a missed opportunity for the skeptical? Tree Society Meeting, Pretoria November 2003.

2004

- 90 Antibacterial, anti-inflammatory and antioxidant activity of seven flavonoids isolated from *Combretum erythrophyllum* (Combretaceae) South African Association of Botanists Congress Durban 2004  
91 Antibacterial and anthelmintic activity and toxicity of 16 plant species used in ethnoveterinary medicine in South Africa. South African Association of Botanists Congress Durban 2004  
92 Research and development in Phytomedicine Workshop on Ethnoveterinary Medicine "Defining EVM" organized by NRF, Dikhololo, February 2004  
93 Are ethnobotanical leads useful for infective diseases? IKS Colloquium organized by FRD, Bloemfontein March, 2004  
94 Random screening of tree leaves yield higher antibacterial activities than ethnobotanically based screening. Indigenous Plant Use Forum, July 2004, Clanwilliam.  
95 Is searching for high activity antimicrobial compounds from plants an exercise in futility? Trends in drug development Annual Congress South African Pharmacological Society, Bloemfontein, October 2004.

2005

- 96 Development and application of a technique to determine MIC values of plant extracts for facultative aerobic acidogenic oral bacteria. Annual Congress South African Association of Botanists, Bloemfontein, January 2005 [Eloff, Beukes]  
97 The first steps in developing a useful African Herbal Pharmacopoeia. Pharmacological Society of South Africa, Cape Town, September 2005.  
98 The African medicinal Plants Standards [AMPS] project has identified the most important African Medicinal plant species and developed an open access database. IPUF , Grahamstown, June, 2005.

2006

- 99 An approach to develop commercially useful products from plant extracts. 32<sup>nd</sup> Annual Congress of the South African Association of Botanists. January 2006  
100 The toxicity of *Crotalaria sphaerocarpa* contaminating maize and soybean crops. TOXSA, Pretoria. June 2006  
101 A new approach is required to develop antimicrobial agents from plants. 27<sup>th</sup> Health Sciences Congress, Durban. December 2006

2007

- 102 A potentiated leaf extract of *Melianthus comosus* has higher activity than six commercial products used against plant fungal pathogens. SAAB 33<sup>rd</sup> Annual Congress, Cape Town, South Africa. January 2007. [Eloff J.N., Angh I.E, McGaw L.J]  
103 *Candida* and *Cryptococcus*: targets for plant-derived antifungals. SAAB 33<sup>rd</sup> Annual Congress, Cape Town, South Africa. January 2007. [McGaw L.J., Shai L.J. and Eloff J.N]

- 104 Some commercially useful products developed from plant extracts in the phytomedicine programme, University of Pretoria. Seminar on HIV/AIDS, Opportunistic Infectious and Medicinal plants, UNISA, Pretoria, March 2007
- 105 Prospecting for antihelmintic activity from South African plants. Seminar on HIV/AIDS, Opportunistic Infectious and Medicinal plants, UNISA, Pretoria March 2007 [ES Bizimenyera, JN Eloff]
- 106 Bekamping van bedrog in die handel met medisinale plante. Simposium Suid-Afrikaanse Akademie vir Wetenskap en Tegnologie, Pretoria. Junie 2007
- 107 Regulations relating to African medicinal plants. Indigenous Plant Use Forum. Johannesburg, July 2007
- 108 *Peltophorum africanum* Sond. (Fabaceae) extracts have a potential role in medicine. Indigenous Plant Use Forum. Johannesburg, July 2007 [Bizimenyera ES, Eloff JN]
- 109 Development of botanicals with insect repellent and toxicant properties for control of tick infestation. Indigenous Plant Use Forum. Johannesburg, July 2007 [Mawela G, Eloff JN]
- 110 Medicinal Mushrooms and their place in Africa. Indigenous Plant Use Forum. Johannesburg, July 2007 [McGaw LJ, Eloff JN]
- 111 Plant antifungal extracts active against plant pathogenic fungi. Indigenous Plant Use Forum. Johannesburg, July 2007 [Mahlo SM, McGaw LJ, Eloff JN]
- 112 Evaluation of invasive weeds for activity against plant fungal pathogens. Indigenous Plant Use Forum. Johannesburg, July 2007 [Meela MM, Mdee LK, Eloff JN]
- 113 *In vitro* antifungal, antibacterial, anti-inflammatory and cytotoxic activities of compounds isolated from leaves of *Maytenus undata* (Celastraceae) Indigenous Plant Use Forum. Johannesburg, July 2007 [Mokoka TA, McGaw LJ, Bagla VP, Iwalewa EO, Eloff JN]
- 114 *In vivo* wound healing activity of *Curtisia dentata* extracts and isolated compounds. Indigenous Plant Use Forum. Johannesburg, July 2007 [Shai LJ, McGaw LJ, Picard J, Eloff JN]
- 115 Screening for antifungal activity in selected South African traditional medicinal plants. Indigenous Plant Use Forum. Johannesburg, July 2007 [Suleiman MM, McGaw LJ, Eloff JN]
- 116 Comparative antimicrobial activity of selected South African medicinal plants against bacterial and fungal pathogens. Indigenous Plant Use Forum. Johannesburg, July 2007 [Bagla VP, Suleiman MM, McGaw LJ, Eloff JN]
- 117 Antifungal and antibacterial activities of six different extracts of *Harungana madagascariensis* stem bark. Indigenous Plant Use Forum. Johannesburg, July 2007 [Iwalewa EO, Suleiman MM, Mdee LK, Eloff JN]
- 118 Screening for antifungal activity in selected South African traditional medicinal plants. Indigenous Plant Use Forum. Johannesburg, July 2007 [Suleiman MM, Mdee LK, Bagla VP, Eloff JN]
- 119 *Markhamia obtusifolia* (Baker) Sprague (Bignoniaceae) contains compounds active against *Candida albicans* Annual Congress South African Association of Botanists [J.N. Eloff, F. Nchu, M.A. Aderogba, and L.K. Mdee].

#### 2008

- 120 Basis of separation of compounds by partition chromatography – making sense out of results and applying results in subsequent steps. Royal Society Workshop, March 2008
- 121 Isolated compounds vs extracts as final products, modifying product to increase activity, commercialization. Royal Society Workshop, March 2008
- 122 Principles and practice of thin layer chromatography ICS-UNIDO International Training Course on Bio-evaluation of Medicinal and Aromatic Plants for Human and Animal Health, June 2008
- 123 Serial extraction, solvent – solvent fractionation, isolation of bioactive compounds and their bioevaluation ICS-UNIDO International Training Course on Bio-evaluation of Medicinal and Aromatic Plants for Human and Animal Health, June 2008
- 124 Quality control of medicinal plant products, focusing on extracts ICS-UNIDO International Training Course on Bio-evaluation of Medicinal and Aromatic Plants for Human and Animal Health, June 2008
- 125 Biopiracy and access control for developing commercial plant products ICS-UNIDO International Training Course on Bio-evaluation of Medicinal and Aromatic Plants for Human and Animal Health, June 2008
- 126 On the way to a modern African Herbal Pharmacopoeia National IKS Meeting Unisa, June 2008
- 127 An African Traditional Medicine Journal. **Invited Presentation** Research Colloquium on African Traditional Medicine National Department of Health September 2008

#### 2009

- 128 The potential of using plants to improve animal health and productivity. Indigenous Plant Use Forum, July 2009 ARC Stellenbosch
- 129 Combretum woodii from different locations in South Africa contain different major bioactive compounds. Indigenous Plant Use Forum, July 2009 ARC Stellenbosch [Samuel B.B., Makhafola T.J., Zishiri V.K., Eloff, J.N.]
- 130 *In vitro* activity of extracts of five plant species used in ethnoveterinary medicine to treat helminth diseases in livestock Indigenous Plant Use Forum, July 2009 ARC Stellenbosch [Ademola, I.O., J.N. Eloff]
- 131 Some success stories in using plants to promote human and animal health. Symposium on 70th Birthday Prof Hannes van Staden, November 2009 Pietermaritzburg

2010

- 132 Evaluation of six plant species used traditionally in the treatment and control of diabetes mellitus. Indigenous Plant Use Forum June 2010, Keimoes [NKK Boaduo, D. Katerere, JN Eloff, V. Naidoo]
- 133 Safety of ethnoveterinary plant extracts: cytotoxicity and genotoxicity studies Indigenous Plant Use Forum June 2010, Keimoes [LJ McGaw, Elgorashi EE, JN Eloff]
- 134 The use of a plant extract to combat fungal infections in oranges Indigenous Plant Use Forum June 2010, Keimoes [JN Eloff, S Mahlo]
- 135 The antimicrobial and free radical scavenging activity and polyphenolic content of four South African Bauhinia species Indigenous Plant Use Forum June 2010, Keimoes [AS Ahmed, N Moodley, V Naidoo, JN Eloff]
- 136 The effect of leaf extracts of some plants used traditionally to treat myiasis on the survival and development of third instar larvae of *Chrysomya marginalis* and *Lucilia cuprina* (Diptera: Calliphoridae) Indigenous Plant Use Forum June 2010, Keimoes. [L Mukandiwa, V Naidoo, JN Eloff]
- 137 Workshop "Future Focus: Biopesticide development trends and commercial opportunities" Pretoria, South Africa, November Some plant extracts have much higher antifungal activity under in vitro and under field conditions than commercial fungicides. Biopesticide 2010 [JN Eloff]

2011

- 138 Is the published African Herbal Pharmacopoeia, the start or end of a successful international collaboration? Annual Congress South African Association of Botanists, January 2011 Grahamstown. [Eloff JN, Gurib-Fakim A, Brendler TE, Phillips D and van Wyk BE]
- 139 The rationale for plants species used traditionally to treat or manage myiasis. Annual Congress South African Association of Botanists, January 2011 Grahamstown. [Mukandiwa, L., Naidoo, V., and Eloff, J.N.]
- 140 Selectivity index values for antimicrobial plant extracts differ depending on the type of cytotoxicity assay and the cell culture conditions used. Annual Congress South African Association of Botanists, January 2011 Grahamstown. [L.J. McGaw, T.A. Mokoka, J.N. Eloff]
- 141 Evaluation of six plant species used traditionally in the treatment and control of diabetes mellitus in South Africa. Annual Congress South African Association of Botanists, January 2011 Grahamstown. [Boaduo, N.K.K. Katerere, D. Eloff, J.N. & Naidoo V]
- 142 Investigation of the genotoxic and antigenotoxic effects of selected South African medicinal plants. Annual Congress South African Association of Botanists, January 2011 Grahamstown. Makhafola T.J., Elgorashi E.E., Verschaeve L and Eloff J.N
- 143 Ethical considerations regarding authorship of papers. National Scholarly Editors Forum, ASSAf, July 2011 Johannesburg.
- 144 Antifungal activity of *Melianthus* species against *Fusarium oxysporum*, *Penicillium janthinellum* and *Candida albicans*. Indigenous Plant Use Forum St Lucia, July 2011 AS Ahmed, V Naidoo, LJ McGaw, JN Eloff]
- 145 The African Herbal Pharmacopoeia (AfrHP) has been published, what next? Indigenous Plant Use Forum St Lucia, July 2011
- 146 Are we investigating the right pathoetiology in anti-diarrhoeal research on medicinal plants? Indigenous Plant Use Forum St Lucia, July 2011 [D Shuping and JN Eloff]
- 147 Isolation and characterization of antioxidant compounds from *Combretum erythrophyllum* leaves. Indigenous Plant Use Forum St Lucia, July 2011 [I.P. Ledwaba, A.S. Ahmed, F.M. Mtunzi, A.M. Sipamla, J.N. Eloff]

2012

- 148 Efficacy and toxicity of thirteen plants leaf acetone extracts used in ethnoveterinary medicine in South Africa on the egg and larva of *Haemonchus contortus* (M.Adamu, V Naidoo and JN Eloff) South African Association of Botanists, 38th Annual Conference, 15-18 January 2012, University of Pretoria,
- 149 The in vitro inhibitory effect of *Ptaeroxylon obliquum* (Thunb.) Radlk. on adhesion of *Candida albicans* to human buccal epithelial cells (HBEC), (FS Botha, C van Wyk, V Bagla and JN Eloff), South African Association of Botanists, 38th Annual Conference, 15-18 January 2012, University of Pretoria,
- 150 Variation in biological activities of leaf extracts of 42 *Combretum molle* plants collected from different areas in Gauteng and Mpumalanga, (JN Eloff and G Würger), South African Association of Botanists, 38th Annual Conference, 15-18 January 2012, University of Pretoria
- 151 Antibacterial, cytotoxic and mutagenic effects of five *Ochna* species, ( TJ Makhafola, LJ McGaw and JN Eloff), South African Association of Botanists, 38th Annual Conference, 15-18 January 2012, University of Pretoria,
- 152 Evaluating antioxidant activity and cytotoxicity of the selected South African medicinal plant species, (NA Masevhe, A Aroke, LJ McGaw and JN Eloff), South African Association of Botanists, 38th Annual Conference, 15-18 January 2012, University of Pretoria

- 153 Antimycobacterial activity, cytotoxicity and genotoxicity studies of *Ptaeroxylon obliquum* and *Sideroxylon interme* leaf extracts, (LJ McGaw, TJ Makhafola, OO Udom, KTV Mayekiso and JN Eloff), South African Association of Botanists, 38th Annual Conference, 15-18 January 2012, University of Pretoria,
- 154 Antioxidant activities of nine medicinal plants used in treating inflammatory ailments in Zulu traditional medicine of South Africa, (E. Muleya, AS Ahmed, AM Sipamla, FA Mtunzi and JN Eloff), South African Association of Botanists, 38th Annual Conference, 15-18 January 2012, University of Pretoria,
- 155 Antioxidant activity, total polyphenolic content and in vitro inhibition of activity of digestive enzymes significant to diabetes by leaf extracts of ten South African *Ficus* species, (OO Olaokun, LJ McGaw, JN Eloff and V Naidoo), South African Association of Botanists, 38th Annual Conference, 15-18 January 2012, University of Pretoria,
- 156 Isolation and characterization of compounds from *Calodendrum capense* and *Lydenburgia cassinoides* with antimicrobial potential against opportunistic pathogens, (BM Sakong, AS Ahmed, LJ McGaw and JN Eloff), South African Association of Botanists, 38th Annual Conference, 15-18 January 2012, University of Pretoria
- 157 Biological activity of methyl ursolate from *Funtumia africana* (Apocynaceae) leaf extracts, (TE Ramadwa, EE Elgorashi and JN Eloff), South African Association of Botanists, 38th Annual Conference, 15-18 January 2012, University of Pretoria, p151
- 158 The effect of four medicinal plants on oral *Candida albicans* isolates, (C van Wyk, FS Botha, V Steenkamp and JN Eloff), South African Association of Botanists, 38th Annual Conference, 15-18 January 2012, University of Pretoria,
- 159 Antimycobacterial activity of compounds isolated from *Lydenburgia cassinoides* (BM Sakong, AS Ahmed, JN Eloff and LJ McGaw) Indigenous Plant Use Forum, July 2012, University of Venda
- 160 Phytochemical and antifungal Investigations of *Eriosema robustum* (Fabaceae) (M D Awouafack, F Botha, P Tane , JN Eloff) Indigenous Plant Use Forum, July 2012, University of Venda
- 161 Some examples of using plant extracts to promote animal health and production. Indigenous Plant Use Forum, July 2012, University of Venda
- 162 Evaluate expression feasibility of 5P12-RANTES analogue in *Nicotiana benthamiana* (KG Mawela, E Chakauya,, R Chikwamba, and JN Eloff) Indigenous Plant Use Forum, July 2012, University of Venda
- 163 Antibacterial activities of southern African tree orders and families against Gram-positive bacteria (L Pauw and JN Eloff) Indigenous Plant Use Forum, July 2012, University of Venda
- 164 Antifungal and cytotoxic activity of compounds from *Pseudognaphalium luteo-album* leaf extracts (LJ McGaw and JN Eloff) Indigenous Plant Use Forum, July 2012, University of Venda
- 165 Ethnobotanical study of plants used traditionally for the management of candidiasis and related infections in Venda, Limpopo Province (N Masevhe and JN Eloff) Indigenous Plant Use Forum, July 2012, University of Venda
- 2013
- 166 Extracts of plant species used traditionally or discovered by wide screening can be used to treat production animal infections by blowflies, worms and fungi (J.N. Eloff, V. Naidoo, L. Mukandiwe, M. Adamu, M. Suleiman, L.J. McGaw). South African Association of Botanists (SAAB) 39th Annual Conference, January 2013, Drakensberg, Natal
- 167 Anthelmintic phloroglucinol derivatives and antifungal activity of fractions from *Leucosidea sericea* (Rosaceae) (M. Adamu, M.D. Awouafack, A.S. Ahmed, L.J. McGaw, V. Naidoo, J.N. Eloff) South African Association of Botanists (SAAB) 39th Annual Conference, January 2013, Drakensberg, Natal
- 168 Biological activity of *Ochna* species (T.J. Makhafola, L.J. McGaw, E.E. Elgorashi, B.B. Samuel, J.N. Eloff) South African Association of Botanists (SAAB) 39th Annual Conference, January 2013, Drakensberg, Natal
- 169 Some southern African plant species used to treat helminth infections in ethnoveterinary medicine have excellent antifungal activities (M. Adamu, V. Naidoo, J.N. Eloff) South African Association of Botanists (SAAB) 39th Annual Conference, January 2013, Drakensberg, Natal
- 170 The screening of selected South African medicinal plants for total phenolics, flavonoids and anti-inflammatory properties (S.A. Adebayo, L.J. Shai , J.N. Eloff ) South African Association of Botanists (SAAB) 39th Annual Conference, January 2013, Drakensberg, Natal. Poster
- 171 Antimutagenic potential of *Combretum microphyllum* methanol leaf extract T.J. Makhafola, E.E. Elgorashi, L.J. McGaw, M.D. Awouafack, L. Verschaeve, J.N. Eloff South African Association of Botanists (SAAB) 39th Annual Conference, January 2013, Drakensberg, Natal Poster
- 172 A strategy to use plant extracts to treat infections in production animals.. IPUF meeting, Nelspruit July 2013 (JN Eloff and L Pauw)

#### PAPERS PRESENTED AT INTERNATIONAL MEETINGS

All oral presentations except where noted. Where presented by student or colleague also noted  
1974

- 1 Metabolism of the fluoroacetate containing plant *Dichapetalum cymosum*. Lecture at Seminar Series, Hebrew University, Jerusalem, December 1974.

1977

- 2 The photo-oxidation of laboratory cultures of *Microcystis* under low light intensities. International Symposium on Environmental Biogeochemistry, Wolfenbüttel, Germany, December 1977.



- 1979
- 3 Development of a model for predicting growth of *Microcystis* in nature. Lecture at Seminar Series, Hebrew University, Jerusalem, December 1979.
- 1980
- 4 Autecological studies on *Microcystis*. International Congress: The Water Environment: Algal Toxins and Health. Dayton, Ohio, U S A, July 1980.
- 5 Toxicological studies on *Microcystis*. International Congress: The Water Environment: Algal Toxins and Health. Dayton, Ohio, U S A, July 1980.
- 6 Autecological and toxicological studies on blue-green algae. Brookhaven National Laboratory Biology Seminar, New York, July 1980. [with G H J Krüger]
- 1980
- 7 Light sensitivity of *Microcystis aeruginosa*. American Society for Plant Physiologists. Brookhaven National Laboratory, New York, May 1981.
- 1982
- 8 The extraction, isolation and stability of toxins from *Microcystis aeruginosa*. International Union of Biological Sciences - International Symposium on Toxins and Lectins, Pretoria, July 1982. Poster
- 9 The amino acid sequence of two toxic peptides from *Microcystis aeruginosa* UV-006. International Union of Biological Sciences - International Symposium on Toxins and Lectins, Pretoria, July 1982. Poster
- 10 A comparative study on the toxins from several *Microcystis aeruginosa* isolates. International Union of Biological Science - International Symposium on Toxins and Lectins, Pretoria, July 1982. Poster
- 1985
- 11 Chemotaxonomy of *Microcystis aeruginosa* a toxic cyanobacterium. AETFAT. St Louis, Missouri, USA 1985.
- 12 Botanic Gardens and Education in South Africa. First International Meeting on Botanic Gardens and Conservation. Las Palmas, May 1985
- 13 A low cost computer package for Garden and Herbarium applications. First International Meeting on Botanic Gardens and Conservation. Las Palmas, May 1985. Poster
- 1987
- 14 Planning of a Botanical Garden for the Conservation of Flora. The 10th International Association of Botanic Gardens Congress, Frankfurt, 1987.
- 1988
- 15 A South African perspective of the role of Botanic Gardens in Nature Conservation. IUCN-BGCS/NBG International Conference: Conservation through Research, Horticulture and Education in Botanic Gardens. Cape Town. August 1988.
- 16 How many plants are needed for *ex situ* conservation in Botanic Gardens. International Botanic Gardens Conference, Nanjing, China, September 1988.
- 17 The Corporate Plan of the National Botanic Gardens, South Africa. International Botanic Gardens Conference. Nanjing, China. September, 1988. Poster
- 18 Diversity in *Pelargonium* - a strategy for survival. Australian Bicentennial Geranium Seminar, Sydney, Australia, September 1988.
- 1989
- 19 The threatened Plant Laboratory at Kirstenbosch NBG. Second International Botanic Gardens Conservation Congress, Reunion, April 1989.
- 1989
- 20 Strategies in the *ex situ* conservation of plant genetic diversity. Pan African Association of Zoological Gardens, Aquaria and Botanical Gardens Congress, Pretoria 1990.
- 1991
- 21 Ex situ conservation of plant genetic resources in southern Africa XIII AETFAT Congress, Zomba, Malawi, April 1991
- 22 The reorganization of the National Herbarium in Pretoria. AETFAT International Congress. Zomba, Malawi, 1993
- 1993
- 23 Is *ex situ* conservation a viable option for the conservation of cycads? Cycad 93 International Conference. Pretoria, 1993  
**Plenary Lecture**
- 1996
- 24 A new HPLC method to determine mebeverine in human plasma. First International Conference on Pharmaceutical and Pharmacological Sciences Midrand, September 1996. Poster
- 1997
- 25 Conservation of medicinal plants: Selecting medicinal plants for research and conservation. DNA Banknet Conference, Nairobi, Kenya. July 1997 **Keynote Lecture**

1999

- 26 Isolation of antimicrobial components from *Combretum erythrophyllum*. World International Conference on Innovative Integrated Medicine, Beijing, China April 1999. [N D Martini]
- 27 Herbarium specimens may be a valuable resource in bioprospecting for antibacterial compounds. 2000 years of natural products research—past, present and future. Amsterdam July, 1999. Poster
- 28 Selection of Combretaceae spp to examine for antibacterial activity based on biological activity, chemical composition and taxonomic information. 2000 years of natural products research—past, present and future. Amsterdam July, 1999. Poster
- 29 Chemical and antibacterial activity diversity of *Combretum eythrophyllum* plants collected from different areas. Second International Conference on Pharmaceutical and Pharmacological Sciences October 1999, Cape Town. Poster
- 30 All Combretaceae species examined have antibacterial activity. Second International Conference on Pharmaceutical and Pharmacological Sciences October 1999, Cape Town.

2000

- 31 The extraction and identification of herbal material by planar chromatography. Agribusiness in Sustainable Natural African Plant Products Roundtable April 2000 Cape Town.
- 32 Antibacterial activity of Marula bark and leaves. Natural Products Research in the new Millenium- September 2000 Zürich. Poster

2001

- 33 Difficulties and pitfalls in determining antibacterial activity of plant extracts. Second World Conference on medicinal and Aromatic Plants. July 2001, Budapest.
- 34 Can extractants be used to selectively enrich antibacterial compounds in complex *Combretum microphyllum* leaf extracts? International Congress Society for Medicinal Plant Research. September 2001, Erlangen, Germany. Poster
- 35 Stability analysis of sterols in *Hypoxis hemerocallidea* and related herbal medicine by TLC and HPLC. Congress of Gesellschaft für Arzneipflanzenforschung, Erlangen Germany, August 2001[AC Retief and R van Brummelen] Poster
- 36 Combretaceae: a challenging, but potentially rewarding group of medicinal plants. September 2001, Lead compounds from higher plants. International Conference Phytochemical Society of Europe September 2001 Lausanne, Switzerland.
- 37 HPLC quantification of phytosterols for industrial and clinical applications. Congress of Phytochemical Society of Europe, Lausanne, Switzerland, September 2001 [AC Retief, and R van Brummelen] Poster
- 38 Combretaceae a good source of antibacterial and anti-inflammatory compounds. September 2001 International Immunopharmacology Congress, Sun City, South Africa.

2002

- 39 The analysis of plant metabolomics applied to traditional medicine. First International Congress on Plant Metabolomics. April 2002, Wageningen, Netherlands. Poster

2003

- 40 Analysis of *Hypoxis hemerocallidea* [African potato] and related phytomedicines for industrial and clinical applications. International Society for Ethnopharmacology, January 2003, Pretoria. . Poster {Eloff,
- 41 Combretastatin B5 isolated from *Combretum woodii* leaves has substantial antibacterial activity. International Society for Ethnopharmacology, January 2003, Pretoria.
- 42 What levels of potentially toxic pyrrolizidine alkaloid containing seed should be allowed in grains in South Africa. International Society for Ethnopharmacology, January 2003, Pretoria.
- 43 Antibacterial and antioxidant activity of *Sutherlandia frutescens*. International Society for Ethnopharmacology, January 2003, Pretoria. [DRP Katerere]
- 44 Antibacterial assays of plant extracts by agar diffusion assay may give misleading results. International Society for Ethnopharmacology, January 2003, Pretoria.
- 45 Investigation of commonly used herbal medicines for antibacterial activity. International Society for Ethnopharmacology, January 2003, Pretoria. [DT Ntloedibe]
- 46 Antibacterial and antioxidant activity of some *Acacia* spp in South Africa. International Society for Ethnopharmacology, January 2003, Pretoria. [DRP Katerere]
- 47 Extraction of grape seed to produce a proanthocyanidin rich extract. International Society for Ethnopharmacology, January 2003, Pretoria. [H Chikoto]
- 48 Antibacterial compounds present in *Terminalia sericea* leaves heal bacterial infections on rats. International Society for Ethnopharmacology, January 2003, Pretoria. [JP Kruger]
- 49 Isolation and characterisation of three antibacterial flavonoids from *Combretum apiculatum* subsp. *apiculatum*. International Society for Ethnopharmacology, January 2003, Pretoria.
- 50 Planar Chromatography can be used to evaluate traditional medicine. International Society for Ethnopharmacology, January 2003, Pretoria.

51 Biological activity of seven antibacterial flavonoids isolated from *Combretum erythrophyllum* (Combretaceae). Congress of Gesellschaft für Arzneipflanzenforschung, Kiel Germany, August 2003.

2004

52 Bridging the gap between laboratory research and use of plants for primary health care. **Invited paper** Ninth International Congress of Ethnobiology, Canterbury UK, June 2004

53 Why has there been so little success in finding new high activity antimicrobial compounds from plants? **Invited Paper** World Conference on dosing of anti-infectives. Nuremberg, Germany September 2004.

2005

54 The Phytomedicine Programme an opportunity for co-operation, University of Mauritius, Reduit Mauritius. **Invited Lecture** Seminar presentation. February 2005

55 Cooperation possibilities on medicinal plant research. **Invited Lecture** before staff and students Noguchi Institute, University of Ghana, Accra. April 2005

56 Medicinal plants and the AMPS project-cooperation opportunities. **Invited Lecture** Seminar presentation to staff and students of Centre for Scientific Research into Plant medicine, Mampong, Ghana April 2005

57 The living database approach to the Medicinal Plant Standards project. International workshop on African Medicinal Plant standards funded by CTA-EU and CDE-EU, Pretoria May 2005

58 Quality Control in the Phytomedicine Programme, University of Pretoria. International workshop on African Medicinal Plant standards funded by CTA-EU and CDE-EU, Pretoria May 2005

59 Isolation of an antibacterial and antioxidant compound from *Combretum woodii* leaves [JO Famakin and VK Zishiri] International Botanical Congress Vienna, July 2005. Poster

60 The creation of the Association for African Medicinal Plant Standards. From the product to the shelf: side event IBC Congress Vienna, July 2005.

61 Extracts of 30 South African *Combretum* and *Terminalia* species have antifungal activities with MIC's as low as 20 µg/ml Congress Society for medicinal plant research, Florence, Italy August 2005. Poster

62 The African Medicinal Plant Standards [AMPS] project has identified the most important African medicinal plant species and developed an open access database. Congress Society for medicinal plant research, Florence, Italy August 2005. Poster

63 A simplified but effective system to identify medicinal plants by TLC. Congress Society for medicinal plant research, Florence, Italy August 2005. Poster

64 *Athrixia phyllicoides* (bush tea): possibilities for a new health-promoting beverage [L.J. McGaw] Congress Society for medicinal plant research, Florence, Italy August 2005. Poster. [L McGaw]

65 Novel biologically active triterpenoids from two African *Combretum* species [J. Angeh, G. Swan, S. Huang, I. Sattler] Congress Society for medicinal plant research, Florence, Italy August 2005.

66 Identification of anti-babesial activity for four ethnoveterinary plants *in vitro*. [V Naidoo] [Naidoo, Zweygarth, Eloff, Swan] The 20<sup>th</sup> International Conference of the World Association for the Advancement of Veterinary Parasitology, Christchurch, New Zealand October 2005. Poster.

67 Evaluation of South African Ethnoveterinary plants for *in vitro* biological activity. [McGaw]. [McGaw, van der Merwe, Eloff] 2005

68 Plants rich in antioxidants warrants study for neurodegenerative diseases. International Conference on Neurosciences November 2005, Al Ein, Emirates.. [ES Bizimenyera, M Aderogba, GE Swan, JN Eloff]

69 The potential of antioxidants from *Bauhinia tomentosa* Linn (Fabaceae) in treatment of neurological disorders. International Conference on Neurosciences, November 2005 Al Ein, Emirates. [MA Aderogba, ES Bizimenyera AO Ogundaini, JN Eloff ]

2006

70 AAMPS, a strategy to develop the economic potential and use of African Medicinal Plants. **Invited Lecture** Africa Herbal antimalaria meeting. CDE congress Nairobi, Kenya March 2006.

71 Is there a case for using complex plant extracts as antimicrobial agents from plants? Academy of Pharmaceutical Sciences Congress "Natural products active against human pathogens" Kew, London April 2006.

72 Developing an antifungal product for plant protection from *Melianthus comosus*. Indigenous Plant Use Forum. Botswana. July 2006

73 Anticoccidial effects of plant-derived extracts in chickens. Indigenous Plant Use Forum. Botswana July 2006 [ L J McGaw, J N Eloff]

74 Development of botanicals with tick-repellent activities. Indigenous Plant Use Forum. Botswana July 2006 [K Mawela, J N Eloff ]

75 The aims and successes of the Association for African Medicinal Plant Standards. Indigenous Plant Use Forum. Botswana July 2006

76 Isolation and characterization of antioxidant compounds from *Combretum apiculatum* spp. *apiculatum*. Indigenous Plant Use Forum. Botswana July 2006. [ T Kgatle, J N Eloff ]

- 77 Antibacterial and antioxidant activities of isolated flavonoids from *Dodonaea viscosa*. Indigenous Plant Use Forum. Botswana July 2006. [ S Teffo, J N Eloff ]
- 78 *In vivo* antifungal activity of *Combretum* and *Terminalia* extracts and isolated compounds in rats. Indigenous Plant Use Forum. Botswana July 2006. [P Masoko, J N Eloff ]
- 79 Screening for antifungal activity in invasive plants . Indigenous Plant Use Forum. Botswana July 2006. [M Meela, J N Eloff ]
- 80 Prospects for use of *Peltophorum africanum* extracts in neurodegenerative disorders. Indigenous Plant Use Forum. Botswana July 2006. [E Bizimenyera, J N Eloff ]
- 81 Are complex antimicrobial plant extracts as prone to microbial resistance as antibiotics? Indigenous Plant Use Forum. Botswana July 2006. [I van Heerden, J N Eloff ]
- 82 Antimicrobial activity of *Maytenus undata* leaves. Indigenous Plant Use Forum. Botswana July 2006. [ T Mokoka, J N Eloff ]
- 83 The activity of extracts of some southern African invasive plant species on fungal phytopathogens. Indigenous Plant Use Forum. Botswana July 2006. [ LMdee, J N Eloff ]
- 84 The potential of antioxidant-based therapeutics from *Peltophorum Africanum* in treatment of neurogenerative diseases [ E S Bizimenyera, JN Eloff, G E Swan]
- 85 Possible role of *Bauhinia galpini* (N. E. Br) in alleviating neuroactivedisorders. [ M A Aderogba, E S Bizimenyera, A O Ogundaini, J N Eloff ]
- 86 Building Capacity In Science to ensure Conversion of Natural Products into Health Products. **Invited Keynote Lecture** WANNPRES, (Western Africa network of natural product research scientists) Elmina, Ghana August 2006
- 87 Increasing the economic potential and use of African Medicinal Plants through AAMPS. **Invited Lecture** Congress of International Society for Ethnopharmacology, Nanning, China August 2006
- 88 Structure and biological activities of antimicrobial compounds recently isolated from southern African *Combretum* and *Terminalia* species. Annual Congress Society for Medicinal Plant Research, Helsinki, Finland, September 2006
- 89 A plant antifungal product from *Melianthus comosus* (Melianthaceae) leaf extracts. Annual Congress Society for Medicinal Plant Research, Helsinki, Finland, September 2006
- 90 Screening plants for antibacterial and antifungal activities. **Invited lecture.** Dept Pharmacognosy, University of Oslo, Norway, September 2006
- 91 Are ethnoveterinary leads useful in developing products to treat animals against microbial diseases? Ethnoveterinary Medicine Conference: Harvesting Knowledge, Pharming Opportunities. Conference of British Society for Animal Science. Chelmsford Essex, England, September 2006
- 92 A new approach is required to develop antimicrobial agents from plants. **Invited paper.** International Health Sciences Conference, Durban, December 2006.
- 93 Isolation and bioactivity of antibacterial triterpenoids from *Curtisia dentata* leaves. International Health Sciences Conference, Durban December 2006. Poster [Shai, Mdee, McGaw and Eloff]
- 94 Antimicrobial compounds from *Combretum paniculatum*. International Health Sciences Conference, Durban, December 2006 [Eloff, McGaw and Samdumu]

2007

- 95 Indigenous Herbs. 10<sup>th</sup> Annual Congress International plant propagators Conference Pretoria, March 2007
- 96 Beneficiation of plant products to improve animal health and productivity. An application of plant extracts to improve poultry production. **Invited Keynote Lecture** ICS Unido Expert Group Meeting, Trieste, Italy. August 2007
- 97 Are ethnobotanical leads useful to develop products to protect animals against microbial diseases? **Invited lecture** ICS Unido Expert Group Meeting, Trieste, Italy. August 2007
- 98 The possible interaction between an edible insect and five antibacterial kaempferol methyl ethers isolated from *Dodonaea viscosa* Jacq.var. *angustifolia*(Sapindaceae) leaf extracts. 55<sup>th</sup> International Congress Gesellschaft fuer Arzneipflanzenforschung, Graz. Sept 2007 [Eloff JN, Teffo LS, Toms RB, Aderogba MA]
- 99 Ethnoveterinary plants with antiviral activity against feline herpesvirus type 1. 55<sup>th</sup> International Congress Gesellschaft fuer Arzneipflanzenforschung Graz. Sept 2007[ McGaw LJ, Bagla VP, Eloff JN] Poster
- 100 Bovine tuberculosis: a zoonotic target for medicinal plants. 55<sup>th</sup> International Congress Gesellschaft fuer Arzneipflanzenforschung Graz. Sept 2007 [McGaw, L.J., Lall, N., Hlokwwe, T., Michel, A., Meyer, J.J.M., Eloff, J.N.] Poster
- 101 Antifungal and antibacterial activities of six different extracts of *Harungana madagascariensis* stem bark. 55<sup>th</sup> International Congress Gesellschaft fuer Arzneipflanzenforschung Graz. Sept 2007.[ Iwalewa E O, Suleiman M M, Mdee M M and Eloff J N] Poster
- 102 A comparison of work on volatile versus non-volatile antimicrobial plant compounds. 38<sup>th</sup> International Symposium on Essential Oils, Graz, Austria, Sept 2007
- 103 AAMPS and PROTA the potential for collaboration. **Invited lecture** Second PROTA International Workshop and Investors' Forum, Nairobi, Kenya, Sept 2007
- 104 The African Medicinal Plant Standards Project. Second PROTA International Workshop and Investors' Forum, Nairobi, Kenya, Sept 2007. Poster

- 105 Quality control methods for the Trading Standard Profiles of AAMPS. **Plenary Lecture**. Workshop of AAMPS-CRIAA, Windhoek, December 2007.
- 2008
- 106 A potentised leaf extract of *Melianthus comosus* has higher activity than six commercial products used against plant fungal pathogens **Invited Lecture** International Conference IOCD and ISDNP, Kasane, Botswana [Eloff, JN, Angeh, I, McGaw LJ]
- 107 The use of plant extracts to replace antibiotic feed additives in poultry production. **Plenary Lecture** 10th Meeting International Society for Ethnopharmacology, Sao Paolo, Brazil, September 2008..
- 108 Interaction between different compounds determines the antibacterial and antifungal activity of plant extracts. GA symposium "Plants systems biology and medicinal plants" Leiden, Netherlands
- 109 A.A. Kaikabo, M. M. Suleiman, Babatunde B. Samuel, J. N. Eloff (2008) Antibacterial activity of eleven South African plants use in treatment of diarrhoea in folkloric medicine. World Conference on Medicinal and Aromatic Plants IV, Cape Town, November.
- 110 N. Masevhe, J. N. Eloff (2008) Evaluating plant species used in Venda (RSA) to address HIV/AIDS side effects. World Conference on Medicinal and Aromatic Plants IV, Cape Town, November.
- 111 K. Mayekiso, J. N. Eloff, L. McGaw (2008) Screening of South African plants for antibacterial and antimycobacterial activity. World Conference on Medicinal and Aromatic Plants IV, Cape Town, November.
- 112 M.M. Suleiman, L. J. McGaw, J. Picard, V. Naidoo, J. N. Eloff (2008) Detection of antimicrobial compounds by direct bioautography in some South African plants. World Conference on Medicinal and Aromatic Plants IV, Cape Town, November.
- 113 Ahmed A. S., C. Igwe, J. N. Eloff (2008) Preliminary studies of the antibacterial activities of *Combretum vendae* leaf extract. World Conference on Medicinal and Aromatic Plants IV, Cape Town, November.
- 114 Kaikabo, B. B. Samuel, M. M. Suleiman, J. N. Eloff (2008) Evaluation of antibacterial activity of several South African trees and isolation of two biflavonoids with antibacterial activity from *Garcinia livigstonei*. World Conference on Medicinal and Aromatic Plants IV, Cape Town, November.
- 115 P. Masoko, L. K. Mdee, L. J. Mampuru, J. N. Eloff(2008) Isolation of a antifungal triterpenes from *Combretum nelsonii* (Combretaceae) leaves. World Conference on Medicinal and Aromatic Plants IV, Cape Town, November.
- 116 Muraina I R, L. J. McGaw, J. Picard, J. N. Eloff (2008) Preliminary investigation into antimycoplasmal activity of traditionally used Nigerian plants. World Conference on Medicinal and Aromatic Plants IV, Cape Town, November
- 117 M. P. Mokgotho, K. W. Lebogo, V. G. Mbazima, P. Masoko, J. N. Eloff, L. J. Mampuru (2008) Anti-proliferative activity of *Commelina benghalensis* a medicinal plant against wil-2 ns lymphocytes. World Conference on Medicinal and Aromatic Plants IV, Cape Town, November.
- 118 M. Mokgotho, P. Masoko, V. Mbazima, J. N. Eloff, R. Howard, L. Mampuru (2008) Antimicrobial activity of traditionally used indigenous medicinal plant from Limpopo province. World Conference on Medicinal and Aromatic Plants IV, Cape Town, November.
- 119 C. Igwe, J. N. Eloff, R. van Brummelen (2008) Extraction, potentiation and quantitative determination of resveratrol from South African red 'concord' grape pumice using assay-guided methods. World Conference on Medicinal and Aromatic Plants IV, Cape Town, November.
- 120 C. Igwe, A. Ahmed, O. Olatunji, J. N. Eloff (2008) Evaluation of the methods of production of sweeteners from *Thaumatococcus danielli* and *Synsepalum dulcificum* of Nigerian origin. World Conference on Medicinal and Aromatic Plants IV, Cape Town, November.
- 121 J.N. Eloff (2008) A mixture of plant extracts can be more effective than a commercial antibacterial feed additive in poultry challenged with *Clostridium perfringens*. World Conference on Medicinal and Aromatic Plants IV, Cape Town, November.
- 122 N. P. M. Komape, L. J. McGaw, J. N. Eloff (2008) Preliminary screening of plant species that may be useful in controlling diarrhoea in production livestock. World Conference on Medicinal and Aromatic Plants IV, Cape Town, November.
- 123 J. McGaw, V. P. Bagla, T. A. Mokoka, E. E. Elgorashi, J. N. Eloff (2008) South African ethnoveterinary plant extracts with antimicrobial and antiviral potential. World Conference on Medicinal and Aromatic Plants IV, Cape Town, November.
- 124 G. Wuerger, L. J. McGaw, C. Franz, J. N. Eloff (2008) Evaluation of the activity of leaf extracts of trees that have been used to treat diarrhoea in humans and animals. World Conference on Medicinal and Aromatic Plants IV, Cape Town, November.
- 125 S.M. Mahlo, L. McGaw, J. N. Eloff (2008) Plant antifungal extracts active against plant pathogenic fungi. World Conference on Medicinal and Aromatic Plants IV, Cape Town, November.
- 126 M. Meela, L. Mdee, J. N. Eloff (2008) Prospects for use of alien invasive weed extracts against fungal phytopathogens. World Conference on Medicinal and Aromatic Plants IV, Cape Town, November.
- 2009
- 127 JN Eloff (2009) Using plants in animal health and production. **Invited Lecture** University of Utrecht, March 2009.
- 128 J.N.Eloff, L. Pauw (2009) The random screening of leaves of trees for antimicrobial activity provides valuable leads for the commercial use of plants . Green Gold ICART-SADC International Symposium, Pretoria September
- 129 TJ Makhafola, J.N.Eloff (2009) Isolation of two antibacterial biflavonoids and a sterol from *Ochna pretoriensis*. Green Gold ICART-SADC International Symposium, Pretoria September

- 130 A. Aroke, J.N.Eloff (2009) Evaluation of Antibacterial and Antioxidant activities of polyphenolic-rich leave extract of *Combretum bracteosum*. Green Gold ICART-SADC International Symposium, Pretoria September
- 131 V. Bagla, L.J. McGaw, J.N.Eloff (2009) Can toxicity and biological activity of plant extracts be separated by selective extraction. Green Gold ICART-SADC International Symposium, Pretoria September
- 132 M Suleiman, V. Naidoo, J.N.Eloff (2009) Developing a product to combat aspergillosis in poultry. Green Gold ICART-SADC International Symposium, Pretoria September
- 133 C. Kandu-Lelo, A. Vatta, J.N.Eloff (2009) Use of the invasive *Cereus jamacaru* (Cactaceae) Queen of the night to control worm infection in sheep. Green Gold ICART-SADC International Symposium, Pretoria September
- 134 KG Mawela, R. Chiworo, J.N.Eloff (2009) Optimising and testing of plant-made RANTES analogues as topical microbicides. Green Gold ICART-SADC International Symposium, Pretoria September
- 135 M. Adamu, J.N.Eloff (2009) Anthelmintic efficacy of aqueous extract of the leaf of *Acanthus montanus* against nematode parasites of small ruminants. Green Gold ICART-SADC International Symposium, Pretoria September
- 136 G. Würger, J.N.Eloff (2009) Evaluation of the activity of leaf extracts of trees that have been used to treat diarrhoea in humans and animals Green Gold ICART-SADC International Symposium, Pretoria September
- 137 J Kruger, J.N.Eloff (2009) Developing an antibacterial ointment to treat skin diseases. Green Gold ICART-SADC International Symposium, Pretoria September
- 138 J.N.Eloff (2009) Bioextracts Pty Ltd. An example of collaboration between industry and Academia. Green Gold ICART-SADC International Symposium, Pretoria September
- 139 J.N., Eloff, I.A, Muraina, L.J. McGaw (2009) Should we first screen for toxicity before screening for biological activity in medicinal plants? 7<sup>th</sup> Congress on toxicology developing countries. Sun City
- 140 J. N. Eloff, M. Rösemann (2009) LC-MS-MS Can Distinguish Between Toxic and Non-Toxic Pyrrolizidine Alkaloids in Plants. 21. Wissenschaftliche Tagung der Österreichischen Pharmazeutischen Gesellschaft, Vienna
- 141 J.N.Eloff (2009) Why has there been so little success in developing antimicrobial products from plants? Plants from High Altitude –Phytochemistry and Bioactivity University Centre Obergurgl/Tyrol, Austria
- 142 J.N.Eloff (2009) Using plants to address opportunistic infections associated with HIV/AIDS. **Invited Lecture** International Symposium on HIV/AIDS, Medicinal Plants and Geophagia, Walter Sisulu University, Mithatha

#### 2010

- 143 The random screening of leaves of trees for antimicrobial activity provides valuable leads for the commercial use of plants. (2009) **Invited Lecture** Biodiversity and Health: emerging and re-emerging diseases. Agence Universitaire de la Francophonie. Antananarivo, Madagascar June
- 144 Safety of medicinal plants and food plants and health. (2010) **Invited Plenary Lecture** ICART-SADC Symposium on economically useful plants of southern Africa, Lusaka, Zambia June
- 145 Comparative antibacterial activity of five *Ochna* species (2010) ICART-SADC Symposium on economically useful plants of southern Africa, Lusaka, Zambia June [Makhafola TJ, Samuel BB, Elgorashi EE, and Eloff JN]
- 146 *In vitro* antibacterial activity of seven plants used traditionally to treat wound myiasis in animals in Southern Africa (2010) ICART-SADC Symposium on economically useful plants of southern Africa, Lusaka, Zambia June [Mukandiwa L, Naidoo, V and Eloff JN]
- 147 Using plant extracts to protect animals and plants against infections. (2010) **Invited Lecture** ICART-SADC Symposium on economically useful plants of southern Africa, Lusaka, Zambia June
- 148 A Strategy to Enhance Success Rate in Obtaining Research Funding – (2010) **Invited Plenary Lecture** ICART SADC Symposium on Strengthening Linkages between Proposal Development Professionals, Scientific Writers and Communication Skills Specialists for Improved Agricultural Research Resource Mobilization Lilongwe, Malawi, July.
- 149 A crude extract of *Loxostylus alata* (Anacardiaceae) is as effective in treating aspergillosis in poultry as a commercial drug (2010) Society for Medicinal Plant Research, Berlin August Eloff JN, Suleiman MM, Naidoo Poster
- 150 Cytotoxicity and mutagenicity investigation of extracts of common South African ethnoveterinary plants (2010) Society for Medicinal Plant Research, Berlin August [McGaw, L; Elgorashi, E; Eloff, JN] Poster
- 151 Is the published African Herbal Pharmacopoeia, the start or end of a successful international collaboration? (2010) Society for Medicinal Plant Research, Berlin August.
- 152 Evaluation of some plants species traditionally used to treat myiasis in southern Africa for antibacterial and larval growth inhibition (2010) **Invited Plenary Lecture** SANA XXII Meeting – Medicine plants/Animal Breeding, Bologna, Italy September (JN Eloff, L Mukandiwa, V Naidoo)
- 153 Extracts or compounds from plants can be as effective as currently used antifungal agents in animal and plant production. (2010) **Invited Plenary Lecture** 14th International Biotechnology Symposium and Exhibition Biotechnology for the Sustainability of Human Society Rimini, Italy September
- 154 Developing commercially useful products from plants (2010) **Invited Lecture** and organizer of a Symposium within the 11th Congress of the International Society of Ethnopharmacology (ISE 2010) Continuity and change in ethnopharmacology: Transdisciplinary science for our future. Albacete, Spain, September

155 Indigenous Knowledge and Innovation: Challenges for development. (2010) **Invited Plenary Lecture** Science, Indigenous Knowledge and Innovation: Implications for ACP Agriculture Science, CTA Advisory Committee on Science and Technology for ACP Agricultural and Rural Development, Johannesburg, South Africa, November

#### 2011

156 The use of African medicinal Plants. (2011) **Invited Plenary Lecture** African Congress on Complementary Medicine, Johannesburg, May

157 Lessons an academic had to learn beyond the patenting stage to get a product into the market (2011) **Invited Plenary Lecture**. Innovation, Research and Development for effective Leadership and Management Conference, Johannesburg, May

158 Research on the use of plant extracts to enhance animal productivity in southern Africa (2011) **Invited Plenary Lecture** AAMPS EVM Conference Using plants to enhance animal productivity in Africa,. Nairobi, Kenya August

159 Why has there been hardly any success in developing antimicrobial products from medicinal plants? ) **Invited Plenary Lecture** NAPRECA Conference, Nairobi, August

160 With a different approach it is possible to develop commercially useful antimicrobial products from plants. Society for Medicinal Plant Research, Antalya, Turkey September

161 Using plants to enhance animal productivity in Africa: a report on an AAMPS-NAPRECA meeting held in Nairobi 2011 **Invited Plenary Lecture** Herban 2011 Herbal products in animal health and nutrition Antalya, Turkey September

162 The African Herbal Pharmacopoeia: a model towards developing the commercial potential of medicinal plants from areas with a high plant biodiversity (2011) **Invited Plenary Lecture** ICMAN5 Conference, Brisbane, Queensland, Australia, October

163 Lessons learned from determining the activity of leaf extracts from more than 600 tree species against 8 important bacterial and fungal pathogens (2011) **Invited lecture** Research Seminar James Cook University, Townsville, Australia 5 October 2011

164 Some examples of plant-based useful veterinary products developed from random screening of plant extracts and from traditional use (2011) **Invited lecture** Research Presentation Griffith University, Gold Coast, Australia 10 October 2011.

165 Some lessons learned in trying to develop commercially useful products from plant extracts (2011) **Invited lecture** Research Seminar Southern Cross University, Lismore, Australia 17 October 2011

#### 2012

166 Comparing random screening and ethnic use in developing products to increase animal and plant production. **Plenary Lecture**, 12<sup>th</sup> International Society for Ethnopharmacology Congress, Kolkata, India February 2012

167 Developing compounds with a commercial potential against microbial infections in plants and production animals. **Invited Lecture**, RIKILT, University of Wageningen, Netherlands May 2012

168 Using plant extracts against microorganisms and parasites to promote animal health and productivity. . **Invited Lecture**, Lelystad Campus, University of Wageningen, Netherlands May 2012

169 Lessons learned in the process of developing commercially useful products from plant extract. **Invited Lecture** Federal Institute for Industrial Research, Oshido, Lagos Nigeria, July 2012

170 The Interaction between Science Technology and Traditional knowledge in research on medicinal plants and development of the African herbal Pharmacopoeia. **Invited Lecture** Nigeria Natural Medicine Development Agency, Federal Ministry of Science and Technology, Victoria Island, Lagos Nigeria August 2012.

171 Other possibilities of developing commercially useful products from plants to increase the quality of life of poor people in Africa. **Invited Lecture**, National Institute for Pharmaceutical Research and Development, Federal Ministry of Health, Abuja, Nigeria, August 2012

172 The high road, low road and third road approach to develop commercially useful products from plants. **Plenary Lecture** 5<sup>th</sup> Western Africa Network of Natural Products Research Scientists (WANNPRES), Ada, Osun State, Nigeria, August 2012

173 A new approach can deliver commercially useful plant based products in human, plant animal health and productivity **Invited Lecture**. University of Ljubljana, Slovenia. August 2012

174 Infection of production animals by blowflies, worms and fungi can be treated with extracts of plant species used traditionally or discovered by wide screening. 13<sup>th</sup> International Society for Ethnopharmacology, Congress, Graz, Austria, Sept. 2012

175 Successes and failures in developing plant based products to promote animal health and productivity, **Plenary Lecture** The 3<sup>rd</sup> International Symposium on Medicinal Plants, Their Cultivation and Aspects of Uses, Petra, Jordan, Nov. 2012

#### 2013

176 Developing products that can control helminths and blowflies in animal health and production from ethnoveterinary knowledge. 2013 IKS International Conference "The value of Indigenous Knowledge (IK) in the 21st century" OR Tambo Conference Centre, Gauteng April 2013

177 The efficacy of plants used against helminths in ethnoveterinary medicine against *Haemonchus contortus* and the correlation with antifungal activity (Eloff JN, Adamu M and Naidoo V) Phytopharm 2013 XVII International Congress, Vienna July 2013

178 The potential of plants to deliver commercially useful products in animal and plant health and production. **Invited Lecture** University of Szeged, Hungary July 2013

179 Is there a correlation between the taxonomy and antimicrobial activity of plant extracts? (JN Eloff, E Pauw) Joint Symposium of the Phytochemical Society of Europe (PSE) and the Austrian Pharmaceutical Society (ÖPhG), Obergurgl, Austria July 2013

- 180 Beyond the African Herbal Pharmacopoeia: Recent progress towards new quality standards for African Herbal Products (Abegaz B, Brendler T, Eloff JN, Gurib-Fakim A, Phillips D) 61<sup>st</sup> International Congress Society for Medicinal and Natural Products Research, Münster, Germany September 2013
- 181 Extracts of ethnoveterinary plants used to control myiasis caused by blowflies in animals are effective in several mechanisms and may have valuable practical applications (JN Eloff, L Mukandiwa, V Naidoo) **Invited lecture** by animal healthcare and veterinary medicine group. 61<sup>st</sup> International Congress Society for Medicinal and Natural Products Research, Münster, Germany September 2013
- 182 Developments in using plants for animal health. **Invited lecture** Workshop Animal Healthcare/Veterinary Medicine. 61<sup>st</sup> International Congress Society for Medicinal and Natural Products Research, Münster, Germany September 2013
- 183 The application of African ethnoveterinary knowledge in developing products with a commercial potential to control internal and external animal parasites. **Plenary Lecture**. NAPRECA, Khartoum, Sudan.

**Current teamwork and collaboration with others:**

**Other research institutions (National and International)**

Prof J van Staden, University of Natal, Prof A Jäger, Denmark, Prof C Franz and Prof H Stuppner Austria, Mr E Mabogo, Venda, Dr D Luseba, Onderstepoort Veterinary Institute, Prof Swan and Prof Botha, Pharmacology and Toxicology, UP, Prof. A Vlietinck and Dr L Maes, Antwerpen University, Belgium, Dr SL Magano and Prof P van Wyk Limpopo University, Prof M van Vuuren, and Dr J Picard, University of Pretoria, Dr S Venter, Roodeplaat Research Institute, ARC, Prof J Breytenbach, Northwest University, Prof J Olivier, Geography Unisa, Dr I Sattler, Hans Knöll Institute, Germany, Mr Denzil Philips, CDE European Union, United Kingdom, Prof A Gurib-Fakim, Mauritius, Prof B Abegaz, Botswana.

**Industry**

Dr R. van Brummelen Biomox Pharmaceuticals, Mr J Mentz, Bioextracts, Dr J Oosthuysen, Healthtech Laboratories, Mr D Neser, Organic Aloe Africa, Mr D Malherbe, Afriplex, Mr R Genade, Brenn-O Kemm

**5.3 Membership in national and international bodies**

- South African Chemical Institute (previously)
- South African Association of Botanists (**Founder Member, President, Honorary Life Member**)
- Suid-Afrikaanse Akademie vir Wetenskap en Kuns (**Full Member since 1981, Board member since 2000, Member Executive Committee of Board since 2005**)
- Southern African Association of Aquatic Sciences (**Life Member**)
- Microbiological Society of South Africa [previously]
- AETFAT (Association for the taxonomic study of the Flora of Tropical Africa)
- Botanical Society of South Africa (**Board member previously**)
- Phycological Society of South Africa (previously)
- International Horticultural Society (previously)
- International Protea Association (Honorary Member, previously)
- South African Pharmacology Society
- Gesellschaft für Arzneipflanzenforschung [Society for Medicinal Plant Research]
- Phytochemical Society of Europe
- Society for Economical Botany USA previously
- International Society for Ethnopharmacology [**Member of Board**]
- Toxicological Society of South Africa
- Association for African Medicinal Plant Standards [**First Chairman of the Board, Currently Chairman Research Advisory Committee**]
- Royal Pharmaceutical Society of Great Britain (previously)
- International Council for Medicinal and Aromatic Plants [**Member Executive Committee previously, now representative for Africa**]

**5.4 Visits to local and overseas universities or research institute as guest professor or researcher**

Spent several periods overseas

- Amino acid metabolism of plants. (University College, London, 1969/70).
- Autecological studies of toxic freshwater cyanobacterium *Microcystis aeruginosa* (Hadassah Hospital, Jerusalem, Israel – 1974 and Hebrew University, Jerusalem, 1979)
- Toxicological studies on *Microcystis aeruginosa* (Brookhaven National Laboratory, New York, USA, 1981)
- Many Institutes and Botanical Gardens on extended lecture tour of Asia and Australia, 1988.
- Several visits to Laboratories and Institutes in Austria, Australia, Belgium, Denmark, Finland, Germany, Ghana, Hungary, Italy, Kenya, Mauritius, Netherlands, Nigeria, Norway and Slovenia 2000-2013.



## 6. MANAGEMENT AND ADMINISTRATIVE DUTIES (LEADERSHIP)

The Department of Paraclinical Sciences consists of 4 Divisions i.e. Pharmacology and Toxicology, Pathology, Veterinary Public health and Phytomedicine. I am in charge of the Phytomedicine Division with practically all funding for the students and technical staff coming from external sources. The Division is only involved with post-graduate students and the activities are extremely interdisciplinary with the only communal factor being the use of plant secondary compounds. [See [www.up.ac.za/phyto](http://www.up.ac.za/phyto)]

The success of the group is evident from the growth in student numbers, the results obtained by students [c. 80% of MSc students last decade passed with a distinction]. Students have won prizes for presentation at congresses including funding to attend congresses in China, Germany, Italy, New Zealand and Emirates. The substantial research funding obtained in competition with other scientists as well as funding from industry shows that efforts are appreciated by peers and that our research is in line with national priorities.

Phytomedicine has been identified as a research focus area of the Faculty of Veterinary Science and also as a developed Research Niche Area by the National Research Foundation.

## 7. COMMUNITY SERVICE OR PROFESSIONAL SKILLS

### 7.1 Outreach projects

7.1.1 Programme in Ethnoveterinary medicine has contact with rural communities. Delivered a presentation at black farmer's day in Limpopo Province. Active in Mnisi outreach programme of Faculty of Veterinary Science at Hans Hoheizen Research Centre.

7.1.2 Mentorship of students and staff members at historically black universities.

We have developed techniques that are used by many Historically Black Universities in South Africa. We have received students from many Universities in Africa and in South Africa for short periods to learn techniques here. In some cases this has led to the students completing the whole study period here, but in many cases they apply the methods in their own laboratories. Staff members of several HBUs are also enrolled for further study here. Especially the Universities of Limpopo Medunsa and Turloop, Transkei, Fort Hare, Walter Sisulu, Tshwane University of Technology, Vaal University of Technology, Venda and University of South Africa make regular use of our facilities and knowledge.

We have also used many TUT interns as part of their experiential training within our group. With decreased funding from the NRF these options of support are now much more limited.

7.1.3 Other ways of supporting colleagues from historically black universities

I have been invited to give prestige lectures to staff and students at Universities of Limpopo-Medunsa, Limpopo-Turloop, Walter Sisulu, and Vaal University of Technology.

I have been requested to help the Universities of Venda, Northwest, Limpopo-Turloop and Universities in Zimbabwe, Nigeria and India in evaluating the promotion of staff members.

### 7.2 Professional service performed

Involved in solving problems in the herbal medicine industry from time to time and I am Chairman of the Western Herbal Medicine Review Committee of the Herbal Products Association of South Africa

## POPULAR SCIENTIFIC PUBLIC LECTURES

### OVERSEAS

Seventeen popular scientific lectures were held in Australia, USA, Israel, Singapore, Hong Kong, Germany and Botswana, to audiences ranging from 8 to 250.

### SOUTH AFRICA

More than 130 popular scientific lectures were held in South Africa before audiences of among others the S<sub>2</sub>A<sub>3</sub>, Botanical Society, Wildlife Society, Afrikaanse Studentebond, Natuurwetenskap studentevereniging (UOFS), Church youth groups, Rotary International Clubs, Lion Clubs, Institute of Citizenship, Royal Society, Suid-Afrikaanse Akademie vir Wetenskap en Kuns, South African Association of Botanists, S.A. Nurseryman's Association, Institute for Parks and

Recreation Administration, Farmers Days, Soroptomist Club, Leserskringe, Youth Leadership Courses, Rapportryers, Schools, S A Aloe Breeders Society, Vroue Landbou Unie, National Museums, Art Exhibitions and Flower Shows in many different towns, Several Lectures on medicinal plants in Pretoria, Cape Town and Durban for BMH Continued Education.

Have led a number of strategic planning and group building courses within the National Botanical Institute and at the Rand Afrikaans University.

## RADIO TALKS

Apart from many radio and television interviews, since beginning of 1990 wrote a weekly 5-minute talk on nature conservation for SABC to translate and broadcast into Afrikaans for two years. Have presented series of 5-10 minute talks on Radio Pulpit [National Christian Radio Station] on the Wonders of Nature.

### 7.3 Involvement with other universities/scientific institutions

- Founder member and was longest serving Member of Council of South African Association of Botanists. Was member of executive committee for many years and was youngest President yet elected to this position. Wrote Congress Planning Manual still in use.
- Full member of the South African Academy for Science and Arts [1981]. Was member of Council of OFS branch for several years as well as Secretary (4 years) and Chairman (2 years). Member, Deputy Chairman and Chairman of Council, Cape Branch. Chairman Biological Section (Stellenbosch). Was Chairman Council Section for Biological Sciences and member of Faculty for Science and Technology.
- Was member/chairman of several Senate and Faculty Committees of several Universities.
- Was chairman of CSIR Threatened Plant Research Working Group and member of Steering Committee of Committee for Nature Conservation Research of National Programme for Ecosystem Research, CSIR. Member of FRD evaluation committee for Indigenous Plant Use Research Programme and allocation of bursaries.
- Was appointed by Minister of Agriculture as member of Board of Trustees National Botanic Gardens (1971-1982)
- Was member of Council: of the Limnological Society of southern Africa (now Southern African Society for Aquatic Sciences).
- Was member of Committee for Environmental Management. Chairman of Subcommittee for Management of Threatened Species and member of Subcommittee for Nature Conservation Dept. of Environment Affairs.
- Was member of S. African Nature Foundation Conservation Advisory Committee.
- Was an ex officio member of the Board of the Botanical Society of South Africa from 1983-1990
- Was member Committee of Cape Peninsula Regional Development Association.
- Was member of Committee of Heads of Cultural Institutions.
- Member and was Deputy Chairman of Professional Advisory Committee for Botany: Plant Sciences-South African Council for Natural Scientists. Was alternate member of Council of SACNAS.
- Was member of Advisory Committee for Horticulture - Cape Technicon.
- Was member of Council and several committees of Botanical Society of South Africa.
- Was member Cape Peninsular Natural Area Management Advisory Committee.
- Appointed by Government Commission for Administration as Chairman of Implementation Committee for amalgamation of National Botanical Gardens and Botanical Research Institute.
- Appointed in 1993 by Minister of National Education on Committee for Scientific Publications to evaluate and Manage National Scientific Journals
- Regularly evaluated research proposals for NRF
- Appointed on review committee for Dept of Botany UKZN 1995 and as assessor for personal promotion of staff members UNP 1996 and as external examiner for undergraduate and post-graduate courses 1999-2005.
- Appointed on review committee of the Medical Research Council to evaluate research programs of the Universities of Cape Town and Western Cape.
- Appointed to Review the establishment of a Medicinal Plant Research Centre, University of Fort Hare, 2005.

### 7.4 Refereeing duties

- Evaluated more than 120 MSc and PhD theses for practically all South African Universities and some Universities in Nigeria, India and in Finland in many different fields.
- Evaluated research programmes for MRC and many research proposals for NRF as well as research proposals from the UK, Sweden, India and Israel.
- Invited to referee manuscripts for the following **165 scientific journals**: (Was a top reviewer for Elsevier in 2010 received a certificate and a small prize for reviewing more than 70 manuscripts.)

Acta Tropica, African Entomology, Advances in Pharmacological Sciences, African Journal of Agricultural Research, African Journal of Biochemical Research, African Journal of Biotechnology, African Journal of Microbiology Research, African Journal of Pharmacy and Pharmacological Research, African Journal of Plant Science, African Journal of Pure and Applied Chemistry, African Journal of Traditional Complementary and Alternative Medicine, Agronomy, American Journal of Plant Sciences, Arabion Journal of Chemistry, Anti-Infective Agents, Antiviral Research, Annual Review & Research in Biology, Applied Microbiology, Biochemistry and Pharmacology, Biocontrol, Biotechnology and Applied Biochemistry, Biotechnology Research International, Bioprocess and Biosystems Engineering, BMC Complementary and Alternative Medicines, Brazilian Journal of Veterinary Parasitology, British Journal of Applied Science and Technology, British Journal of Medicine and Medical Research, British Microbiology Research Journal, Cameroon Journal of Experimental Biology, Croatian Journal of Food Technology, Biotechnology and NutritionCrop Rotation, Current Medicinal Chemistry, Current Pharmaceutical Biotechnology, Educational Research and Reviews, European Journal of Chemistry, European Journal of Integrative Medicine, European Journal of Medicinal Plants, Evidence-Based Complementary and Alternative Medicine, Experimental Parasitology, FEMS Immunology & Medical Microbiology, FEMS Yeast Research, Folia Histochemica et Cytobiologica, Food Additives and Contaminants, Food and Chemical Toxicology, Food Bioscience, Food Chemistry, Foodchem, Food Technology and Biotechnology, Future Microbiology, Free Radicals and Antioxidants, Global Journal of Medical Sciences, Global Research Journal of Microbiology, Human and Experimental Toxicology, Industrial Crops and Products, International Journal of Biochemistry Research & Review, International Journal of Biodiversity and Conservation, International Journal of Biological and Chemical Sciences, International Journal of Nutrition and Metabolism, International Journal of Physical Sciences, International Journal of Plant & Soil Science, International Journal of Green Pharmacy, International Journal of Molecular Sciences, International Journal of Phytomedicine, International Journal of Tropical Disease & Health, International Journal of Zoology, International Research Journal of Biochemistry and Bioinformatics, International Journal of Biochemistry Research & Review, International Research Journal of Biotechnology, International Research Journal of Plant Science, International Research Journal of Library, Information and Archival Studies, International STD Research & Reviews, International Journal of Tropical Disease & Health, Jordan Journal of Biological Sciences, Journal Aquatic Sciences in Africa, Journal for Herbs, Spices and Medicinal plants, Journal of Agricultural and Biological Sciences, Journal of Agricultural and Food Chemistry, Journal of Agricultural Science and Technology, Journal of Agriculture and Biodiversity Research, Journal of Animal and Cell Biology, Journal of Applied Microbiology, Journal of Applied Animal Research, Journal of biologically active compounds from nature, Journal of Biomedicine and Biotechnology, Journal of Cell and Animal Biology, Journal of Essential Oil Bearing Plants, Journal of Ethnobiology and Ethnomedicine, Journal of Ethnopharmacology, Journal of Food Processing, Journal of Food Safety, Journal of Fungal and Yeast Research, Journal of Geography and Regional Planning, Journal of Horticulture, Journal of Histology and Cytology, Journal of Human and Experimental Toxicology, Journal of King Saud University (Science), Journal of Medicinal Food, Journal of Medicinal Plant Research., Journal of Medicine and Medical Sciences, Journal of Pathogens, Journal of Parasitology and Vector Biology, Journal of Pharmacognosy and Phytotherapy, Journal of Phycology, Journal of Visualized Experiments, Journal of the American College of Nutrition, Journal of the Science of Food and Agriculture, Journal of the Limnological Society of southern Africa, Journal of the St. Paulo Inst. of Tropical Medicine, Journal of the Science of Food and Agriculture, Journal of the Veterinary Society of South Africa, Journals of Agriculture and Biological Sciences, Journal of Visualized Experiments, Letters in Applied Microbiology, Letters in Drug Design & Discovery, Life Sciences, Microbial & Biochemical Technology, Microbiological Research, Microbial Drug Resistance, International, Mini Reviews in Organic Chemistry, Molecules, Natural Product Research, Natural Products Communications, Nigerian veterinary Journal, Nutrients, Oman Medical Journal, Onderstepoort Journal Veterinary Science, Online Journal of Medicinal Plant Research, Parasitology Research, Peak Journal of Pharmacy and Pharmaceutical Sciences, Pharmaceutical Biology, PhCog Mag, Phytochemistry, Phytomedicine, Phytotherapy Research, Plant Ecology, Planta Medica, PLOS One, Plant Signaling & Behavior, Preparative Biochemistry & Biotechnology, Research in Pharmaceutical Biotechnology, Research Journal of Agricultural and Environmental Management, Saudi Medical Journal, Plant Science, Science Journal of Environmental Engineering Research, Scientia Pharmaceutica, Scientific Research and Essays, South African Journal of Botany, South African Journal of Science, South African Journal of Zoology, Suid-Afrikaanse Tydskrif vir Natuurwetenskap en Tegnologie, The African Journal of Plant Science and Biotechnology, Tropical Biomedicine, The Open Pain Journal, The Scientific World, Veterinary Parasitology, Veterinary Research Communication, Veterinary Research Communication, Water SA, WebmedCentral. WebPub Journal of Medical Research, WebPub Journal of Scientific Research, World Mycotoxin Journal, Wudpecker Journal of Pharmacy and Pharmacology

#### 7.5 Editorial activities scientific journals

- Was Editor-in-Chief of Journal of South African Botany Vol. 49 and Vol. 50 [1983/1984] before this journal amalgamated with the South African Journal of Botany
- Scientific Editor of South African Journal of Botany from 1984 to 1999
- Member Editorial Board South African Journal of Botany from 2000-
- Was Co-Editor of Veld & Flora (1984-1989) - Quarterly Journal of the Botanical Society of South Africa.
- Editor-in Chief Suid-Afrikaanse Tydskrif vir Natuurwetenskap en Tegnologie [South African Journal of Science and Technology] from 2000-

- Invited to become member of Editorial Board Cameroon Journal of Experimental Biology, Open Journal of Alternative Medicine, Open Pain Journal, for Inflammation & Allergy – Drug Targets, Anti-cancer and Cancer Preventing Plant Products from Nature, BIOINFO Vaccine Sciences, International Journal of Parasitology Research, The Open Complementary Medicine Journal, Discovery Phytomedicine, Bioinfo publications. Did not accept invitations.
- Member of Editorial Advisory Board, African Journal of Traditional Alternative and Complementary Medicine
- Member Editorial Committee Evidence based complementary and alternative medicine (2010 resigned in 2013)
- Appointed as Editor in Chief of International Journal of Phytomedicine (2010)
- Section Editor BMC Complementary and Alternative Medicine (2013)

#### 7.6 Editorial activities books

- Was Editor of volume 13 of Supplement to Journal of South African Botany and of vol. 14-19 of Annals of Kirstenbosch Botanic Gardens which superseded the Supplementary Volumes.
- Co-Editor Green Gold – Success stories using Southern African Plant species. .AAMPS Publishing, Mauritius (2010)
- Co-Editor African Herbal Pharmacopoeia. AAMPS Publishing, Mauritius (2010)
- Co-Editor Chemistry for the Sustainable development in Africa. Springer-Verlag, Germany (2012).

#### 7.7 Evaluation status as scientist

Directly after FRD [then NRF] started was evaluated C “established researcher”. Was then in management position without the possibility to be involved in research. In 1999 when returned to academic world evaluated in the L category (“Late entry into research” and in 2004 in the “established researcher” category, C3 and in 2008 in the “internationally acclaimed scientist” category B3.

#### 7.8 Citation of publications

Different results were obtained from Web of Science and Google Scholar. H factor according to Web of Science on 9 April 2013 was 24 and H factor based on Google Scholar was 32. The i10 factor was Based on Google Scholar top ten publications were cited an average of 175 times.

## 8. DISTINCTIONS AND AWARDS

- Book prizes for academic achievement at school
- Bilingualism bursary Transvaal Education Department
- British Council Bursary for Research in London (1969/70)
- Several CSIR post-doctoral fellowships and Travel Grants for overseas research and international congresses.
- Financial support from USA Dept. of Agriculture (Jan-Dec '81) towards sabbatical study
- Patron Cape Natural History Club [1983-1993]
- Honorary Member International Protea Association (1988-1993)
- Foundation member and later Honorary Member Kirstenbosch Club of Rotary International
- Appointed Chairman of Cape Flora Specialist Group of IUCN Species Survival Commission (1988-1992)
- Appointed Honorary Professor of Botany at University of Stellenbosch for two terms 1987-1988
- Appointed Extraordinary Professor at University of Pretoria 1990-1993
- Appointed part time Professor at Rand Afrikaans University 1992-1995
- Received the Senior Medal for Botany from South African Association of Botanists and honorary life membership "in recognition of outstanding research and/or other contribution to Botany" in January 1993.
- Volume 65 of South African Journal of Botany, 1999 dedicated to J N Eloff
- Negotiated contract for substantial Research Funding by industry and THRIP on medicinal plant research. Also carried out contract research for inter.alia. CSIR, Sasol and Krygkor.
- Elected member of Faculty Board and member of Board of South African Academy of Arts and Sciences 1999, 2004.
- Elected Chairman Biological Sciences Management Section South African Academy of Arts and Sciences, 1999.
- Elected Chairman Editorial Committee South African Journal of Science and Technology 2000-
- Received Havenga Prize for outstanding research in Biological Sciences from Suid-Afrikaanse Akademie vir Wetenskap en Kuns June 2003
- One of 14 Biopad BRIC projects selected for funding [R2.2m for 2004-2005].
- Elected on Board of International Society for Ethnopharmacology June 2004-
- Appointed by Committee for Development of Enterprise of the European Union as Leader of a Pan-African project to develop a series of monographs on the quality control of African Herbal Medicines for export to Europe 2005.
- Member Executive Committee of Council Suid-Afrikaanse Akademie vir Wetenskap en Kuns 2005-
- Elected as first Chairman of the Board of the Association for African Medicinal Plant Standards based in Mauritius [www.aamps.org] 2005

- Appointed as Chairman of the Scientific Advisory Committee of Association for African Medicinal Plant Standards
- Elected member Executive Committee of International Council for Medicinal and Aromatic Plants.
- Organized the world congress on medicinal and aromatic plants (WOCMAP IV) in South Africa in 2008 with the small but dedicated Phytomedicine Programme team.
- Received funds from NRF focus areas close to R1 million per year for five years, 2005-2009.
- Leader of an established Research Niche Area of the National Research Foundation with excellent funding from 2007 to 2013.
- Received the Bronze medal from the International Horticultural Society in recognition of organizing the World Conference on Medicinal and Aromatic Plants (WOCMAP IV in 2008)
- Received the Gold medal of the Suid-Afrikaanse Akademie vir Wetenskap en Kuns for Scientific and Technological Achievement 2009
- Appointed Editor-in-Chief International Journal of Phytomedicine 2010
- Received the first award as Outstanding Scientific Achiever in Faculty of Veterinary Science in 2010
- SA Akademie vir Wetenskap en Kuns Douw Greeff prize for best publication in SA Tydskrif vir Natuurwetenskap en Tegnologie in 2011
- Received the National Science and Technology Forum Eskom award for Research Capacity Development in all scientific disciplines in South Africa from the Minister of Science and Technology in 2012. This included a R100 000 grant for research support
- Received the Gold medal highest award of the Academy for Science of South Africa (ASSAf) for contribution of "Science for Society" in South Africa 2012
- Received the Gold medal, highest award the from the South African Association of Botanists, January 2013
- Received the Prize from the Afrikaanse Taal en Kultuurvereniging (ATKV) and the Suid-Afrikaanse Akademie vir Wetenskap en Kuns for the best scientific paper published in Afrikaans. October 2013.