FACULTY OF HEALTH SCIENCES (CEREMONY 1)

ORDER OF PROCEEDINGS

Academic Procession.

(The congregation is requested to stand as the procession enters the hall)

The Presiding Officer will constitute the congregation.

The National Anthem.

The University Dedication will be read by a member of the SRC.

Musical Item.

Welcome by the Master of Ceremonies.

The Master of Ceremonies will present the Social Responsiveness Award to Dr Rebecca Hodes.

The Master of Ceremonies will introduce the guest speaker.

Address by guest speaker.

The graduands and diplomates will be presented to the Presiding Officer by the Dean of the faculty.

The Presiding Officer will congratulate the new graduates and diplomates.

The Master of Ceremonies will make closing announcements and invite the congregation to stand.

The Presiding Officer will dissolve the congregation.

The procession, including the new graduates and diplomates, will leave the hall. (The congregation is requested to remain standing until the procession has left the hall.)

NATIONAL ANTHEM

Nkosi sikelel' iAfrika Maluphakanyisw' uphondolwayo, Yizwa imithandazo yethu, Nkosi sikelela, thina lusapho lwayo.

Morena boloka etjhaba sa heso,
O fedise dintwa la matshwenyeho,
O se boloke,
O se boloke setjhaba sa heso,
Setjhaba sa South Afrika – South Afrika.

Uit die blou van onse hemel, Uit die diepte van ons see, Oor ons ewige gebergtes, Waar die kranse antwoord gee,

Sounds the call to come together,
And united we shall stand,
Let us live and strive for freedom,
In South Africa our land.

DISTINCTIONS IN THE FACULTY OF HEALTH SCIENCES

Postgraduate diplomas may be awarded with distinction if the candidate has achieved 70% and above for all courses with a weighted average of at least 75%

Honours degrees are awarded by class (first, second class division one, second class division two, or third).

Master's degrees (by coursework and dissertation) may be awarded with distinction

for the dissertation, where the mark for the dissertation is at least 75%

for the degree, where the weighted average is 75% or better and no component is below 70%

Master's degrees (by dissertation) may be awarded to a candidate who achieves a mark of 75% and above for the dissertation.

DECLARATION FOR HEALTH SCIENCES GRADUANDS

AT THE TIME OF BEING ADMITTED AS A MEMBER OF THE HEALTH PROFESSION:

I solemnly pledge to serve humanity

My most important considerations will be the health of patients and the health of their communities

I will not permit considerations of age, gender, race, religion, ethnic origin, sexual orientation, disease, disability or any other factor to adversely affect the care I give to patients

I will uphold human rights and civil liberties to advance health, even under threat

I will engage patients and colleagues as partners in healthcare

I will practise my profession with conscience and dignity

I will respect the confidentiality of patients, present or past, living or deceased

I will value research and will be guided in its conduct by the highest ethical standards

I commit myself to lifelong learning

I make these promises solemnly, freely and upon my honour.

SOCIAL RESPONSIVENESS AWARD

The Social Responsiveness Award provides an institutional signal to members of the University that social responsiveness is an important priority.

DR REBECCA HODES 'MZANTSI WAKHO' – A STUDY ABOUT YOUTH HEALTH IN SOUTH AFRICA

The 'Mzantsi Wakho' study – translating as 'Youth South Africa', is a research collaboration on youth health, with its academic home at UCT's AIDS and Society Research Unit. In its participant population, the study is unique, both in South Africa and globally: constituted by over 1,000 HIV-positive adolescents and young adults, it represents the experiences of a group of South Africans whose lives span critical developments in politics, public health and social development.

Owing to the delayed provision of public antiretroviral treatment in the Eastern Cape, a concerted programme for the prevention of mother to child transmission of HIV was publicly provided only from 2005. The majority of the study's participants are 'vertically-infected' adolescents, who became HIV-positive via parent-to-child transmission, at a time in which antiretroviral treatment was publicly inaccessible. However, their ongoing survival and their wellbeing is premised on another key development in politics and public health in South Africa: the national rollout of HIV treatment and, subsequently, the establishment of South Africa's HIV treatment programme as one of the largest and most effective public health interventions in history.

The study is thus, in its broadest sense, about the lives and experiences of youth in democratic South Africa, and about the vast potentials and opportunities, coupled with the ongoing challenges and obstructions, of growing up in the post-apartheid present. The bulk of the work is conducted, not in the relatively well-resourced provinces of the Western Cape and Gauteng, but in the Eastern Cape's Mdantsane, Gompo, Duncan Village, Zwelitsha, Ginsberg and Dimbaza. To explore the provision of health and social services, and the lived realities of teenagers and their families in the era that has come to be designated as 'post-apartheid', it was essential to locate the study in settings at the fulcrum of democratic development, in previous 'bantustans' in which service delivery in South Africa's transition to democracy has been targeted.

Mzantsi Wakho research is led by local researchers, in partnership with the South African Departments of Health, Social Development and Basic Education, and with civil society organisations, including Paediatric-Adolescent Treatment Africa. In 2015, Mzantsi Wakho researchers lead-authored South Africa's National Adolescent and Youth Health Policy.

NAMES OF GRADUANDS/DIPLOMATES

Graduation ceremony suspended because of Covid-19. All graduated *in absentia* at a special Congregation of the University of Cape Town on 17 March 2020.

1. FACULTY OF HEALTH SCIENCES

Dean:

Associate Professor L Green-Thompson

POSTGRADUATE DIPLOMA IN ADDICTIONS CARE

Nomathemba Lisbeth Cekiso
Shandre Theresa Cornelius
Nonopa Gama
Desiree-Anne Martin (with distinction)
Sashen Naidoo
Charles Andrew Persence
Adala Michelle Prevost (with
distinction)
Nicolette Retief (with distinction)

POSTGRADUATE DIPLOMA IN ADVANCED MIDWIFERY AND NEONATAL CARE

Carine Brand Chesné Celeste Esau Philiswa Gqada Yan Lun Ma

POSTGRADUATE DIPLOMA IN CHILD CRITICAL CARE NURSING

Andrea Joyce Africa
Frieda Naluwe Amwele
Busisiwe Diwaza
Sandisiwe Duna
Louise Du Preez
Michelle Jacqueline Hammond
Hillary Precious Lubuto
Thandeka Isabella Mtshali
Shirley Opoku (with distinction)
Lydia Owusu Ansah
Retsidisitoe Benedict Xuza

POSTGRADUATE DIPLOMA IN CHILD NURSING

Candice Vanessa Blaauw Samuel Joseph Makubo Azile Babalwa Marwarwa Zintle Mbande Mukhethwa Mphaphuli Sinentlahla Stofu Nomawethu Thandela

POSTGRADUATE DIPLOMA IN COMMUNITY AND GENERAL PAEDIATRICS

Lukie Cornelia De La Rey Barnard
Leigh-Ann Calvert
Sa-Eeda Chippendale
Jessica Stevens Gammon
Nonthuthuko Precious Majozi
Carol Noxolo Mbadi
Mary Elizabeth Morgan (with
distinction)
Shayne Robin Van Aswegen (with
distinction)
Amanda Jean Wessels (with distinction)
Jodi Isaacs Wiles (with distinction)

POSTGRADUATE DIPLOMA IN COMMUNITY EYE HEALTH

Nokulunga Ntokozo Gule Carisa Mulder Keitumetse Thamane

POSTGRADUATE DIPLOMA IN DISABILITY STUDIES

Dureyah Abrahams
Unathi Cordelia Bandile
Maria Magdalena Britz
Tshwaro Benedict Manyeneng
Sememeru Titus Masemola
Marce Murray
Patricia Nomonde Ncamile
Ncikazi Nyoka
Sarah Ruth Oosthuizen
Zandile Bongiwe Vilana

POSTGRADUATE DIPLOMA IN FAMILY MEDICINE

Nafisa Khan Erick Tankama Mabeya

POSTGRADUATE DIPLOMA IN HEALTH ECONOMICS

Minenhle Angela Cheda Vatiswa Henge-Daweti Shaun Jonathan Henkeman Bonke Kingsley Khwinani Thabsile Gratitude Kolonzi Doris Kananu Macharia Bulelwa Madondile-Mghay Mapula Paulina Makofane Caroline Maluleka Fundiswa Mngoma Maphefo Mogane Bonakele Jason Itumeleng Moleme Nkosinathi Emmanuel Mthethwa Isibaya Bongani Ndhlovu Tshiwela Phillipine Neluheni-Tshinaba (with distinction) Helen Noluthando Ngomane Yanga Nokhepheyi Thulisile Busisiwe Noutchang Musa Christian Ntuli Mpho Babalwa Ramasia Ruth Khutso Rankapole Tshifhiwa Sylvester Sinwamali Leanri Van Pletsen

POSTGRADUATE DIPLOMA IN HEALTH PROFESSIONAL EDUCATION

Fisayo Ruth Abiodun Sarah Floretha Gaweses Peter William Hodkinson Waseela Khan (with distinction) Isabel Schoeman Thembile Zini

POSTGRADUATE DIPLOMA IN HEALTHCARE TECHNOLOGY MANAGEMENT

Zahier Abrahams Matevhu Constance Bajomo Thulani Kenneth Buthelezi Aviwe Mahlubi Cengimbo Chad Robert Daniels Tharina Aletta Gombault (with distinction)
Mukhatshelwa Khubana
Gladwin Lebohang Letlojane
Luyanda Keith Maboea
Serake Moloto Manabile
Avela Zukiswa Mayekiso
Maud Mantombi Mkhonza
Emmanuel Nsizwa Ngcobo
Loyiso Nompalweni
Winston Padayachee
Pumelela Kwakhanya Rapiya
Tichaona Samkange
Andile Nqobile Shibe (with distinction)

POSTGRADUATE DIPLOMA IN INTERDISCIPLINARY PAIN MANAGEMENT

Faheem Baba
Michelle Patricia Beukes-King
Neil Mark Cuninghame (with
distinction)
Johann Charl De Bruin
Glenda Chantelle Francis
Kimberley Gerhardt
Chandani Rajesh Gopal
Swasti Hurburun (with distinction)
Caron Lisa Louw
Alma Miller
Tayla Jade Olivier (with distinction)
Ludolph Cornelius Robinson
Helen Roome (with distinction)
Laeeqa Sujee (with distinction)

POSTGRADUATE DIPLOMA IN NEPHROLOGY NURSING

Chriszelda Margaret Arendse
Othusitse Chaka
Thusani Engie
Ntobeko Patrick Gcaleka
Lindsey Jacobs (with distinction)
Zinhle Taryne Majola
Matiti Yvonne Mangxe
Zandile Benedictor Mbele
Joyce Mathi Mofulatsi
Motebang Vincent Mololo

Prince Fani Mthembu Vathiswa Ngconjana Angelique Juliet Oerson

Irene Ebele Okudoh (with distinction)

Hlagudi Jonea Seoloane Happen Mokwele Tolo Louise Uwamaliya

POSTGRADUATE DIPLOMA IN PALLIATIVE MEDICINE

Ruth Emily Amoore Diemut Munondumbo Nuuyuki Amushila

Benjamin Josef Botha (with distinction)

Jacobus Johannes Carnow

Amy Elizabeth Carr (with distinction)

Wendy Ann Cooke

Frances Erasmus (with distinction)

Katya Evans

Johanna Margaretha Foot (with

distinction)

Aileen Sandra Forbes (with distinction)

Craig Geoff Howes (with distinction)

Jonas Vaillant Kasese Johanne Lubbe Stella Fundisa Mbiyo Jennifer Mary Morgan

Brenda May Morrow (with distinction)

Thulisile Hlengiwe Mtembu (with

distinction)

Nontsikelelo Ntombikayise Elsi

Ngcuka-Matotie Elise Ingrid Ozudogru Vaishali Venkata Padayachy Bradley Ryan Parsons

Deirdre Elisabeth Mary Petit Dit De La

Roche (with distinction)
Maria Magaretha Pretorius

Naledi Constance Radikara

Shaakira Saloojee

Tasneem Sayed (with distinction) Makgano Salmina Shikwane

Aletta Cecilia Swartz (with distinction)

Ora Feige Taback

Nicole Jayne Tacon (with distinction)

Brett Van Coppenhagen (with

distinction) Mary-Anne Van Niekerk

Janine Bridget Verstraete (with

distinction)

Audrey Estelle Zietsman

POSTGRADUATE DIPLOMA IN PESTICIDE RISK MANAGEMENT

Dileep Kumar Ambalathinkal Diyakaran

Bai Bittave

Cebsile Nizzie Dlamini
Rangarirai Mapuranga
Jane Benjamini Mdwegele
Christabel Chilekwa Mibenge
Sibusiso Cyprian Msibi (with

distinction)

Paul Mwambu

Maguette Ndiaye Ndiaye

Lloyd Nundwe

James Mark Okidi Ogwang

Mahmoud Sidahmed Charles Ssemugabo Simon Tembo

POSTGRADUATE DIPLOMA IN TB-HIV MANAGEMENT

Phathutshedzo Alexander Briony Sue Chisholm (with distinction) Linette Coetsee (with distinction) Ncomeka Chunyelwa Manentsa

Raissa Mbuyamba Saliminah Emelda Meti

Rethabile Belina Mothibeli Mohlomi

Musasa Fabrice Mwamba

Nabintu Anastasie Nana Namegabe Nokukhanya Natasha Nondula Doris Kela Bajika Nyembwe Quintin Andre Van Staden (with

distinction)

DEGREE OF BACHELOR OF MEDICAL SCIENCE HONOURS

In Applied Anatomy:

Zaahirah Ismail

Sarah Jahna Labuschagne (first class)

Sadiyah Malek (first class)

Nathier Rhoda

Michelle Anneli Winter (first class)

In Bioinformatics:

Isaac Adedayo Abodunrin

Liam Gareth Emmerich Carew (first

class)

Nikita Friedman (first class) Hayli Natanya Geffen (first class)

Campbell Oliver Green

Christopher Vernon Hooper (first class)

Shelby Layla Labuschagne

Ruth Mphahlele

Lethukuthula Lindokuhle Nkambule (first class)

In Biological Anthropology:

Kimberley Jane Cameron (first class) Claire Lynne Du Toit (first class) Michelle Ashleigh Scott (first class)

In Clinical Pharmacology: Chiao-Yu Hsiao (first class)

Snentokozo Felicia Kubheka

Sydwell Poulo Maputla Saskia Spaltman (first class)

In Forensic Genetics:
Wenelisile Lusanda Bhengu

In Human Genetics:

Iliana Boura (first class)
Bianca Kruger (first class)
Celeste Esther Leggett
Buhle Ntozini (first class)
Mark Trevor Verryn (first class)
Safiye Yildiz (first class)

In Infectious Diseases and Immunology:

Christian John Cotchobos (first class) Malika Gabier (first class) Cara Renée Golding (first class) Rebecca Madison Haines (first class) Talitha Maryke Kotzé (first class) Kegomoditswe Malebo

Jonathan Ingo Pollock (first class) Gilad Eliahu Shorer (first class) Nicole Jessica Wentzel (first class) Shannon Wonfor (first class)

In Medical Biochemistry:

Riyaadh Ahmed (first class)
Chloe Victoria Buck (first class)
Benjamin Michael Brian Cloete (first class)
Arad Shulamit Cohen (first class)

Hana Faulds Siyavuya Fikamva (first class) Dakalo Duncan Makhado Grace Mayuni (first class)

Nadine Tambwe

Alexandra Catherine Whitehouse (first class)

Rhys Willmore

In Medical Cell Biology:

Theodora Otubea Amoa (first class) Jose Antonio De Faria Carmen Gaffley (first class) Marise Nel (first class)

In Medical Physics: Shaili Govender

In Physiology:

Muhammad Ilyaas Amien (first class) Shao-Hsuan Stephanie Lee (first class) Mmakoma Makwela Amanda Chumani Menzele (first class) Retshepile Mokoena (first class) Luyanduthando Mqadi Koketso Rapoo

Joshua Stephen Selfe (first class) Gabriela Singh (first class) Nehpal Singh

Claudia Ann Smith (first class) Andrew John Tucker (first class)

In Radiobiology:

Megan Adams Brown (first class) Gabriella Mia Wilensky (first class)

DEGREE OF BACHELOR
OF MEDICAL SCIENCE HONOURS
IN BIOKINETICS

Faatimah Asvat Olivia Carla Bloomer (first class)

Shivesh Kishan Daya

Zakirah Jaffer

Gwyneth Laura James (first class)

Vincent Mark Meintjes

Damaris Kangai Musera (first class)

Zazi Thobeka Phiri Yurish Ramdari

Tayla Jane Ross (first class) Lizaan Billy Williams

DEGREE OF BACHELOR
OF MEDICAL SCIENCE HONOURS
IN DIETETICS

Melissa Emily Colborne Samantha Louise De Kock Natasha Darne Driescher Andricia Govender Nicole Danielle Haird (first class) Bulelani Onamandla Makapela Yenziwe Lindokuhle Ndlovu Cheyenne Oosthuizen (first class) Nadene Adelle Polayya

Megan Nicole Ropertz Michaela Claire Schultz Elsabé Smuts

DEGREE OF BACHELOR OF MEDICAL SCIENCE HONOURS IN EXERCISE SCIENCE

Ariella Barnett (first class)
Tauhira Behardien
Arron Taylor Lund Correia (first class)
Natalie Rose Erskine (first class)
Gabriella Erin Florence (first class)
Philippa Forshaw (first class)
Lara Paul (first class)

Camilla Alice Smyth (first class)

DEGREE OF MASTER OF MEDICAL SCIENCE IN GENETIC COUNSELLING

Irene Farisai Muchada (with distinction in the dissertation)

DEGREE OF MASTER OF MEDICINE

In Anaesthesia:

Tessa Biesman-Simons (with distinction in the dissertation)

Caryl Hollmann (with distinction in the dissertation)

Nana Agya Boakye Atonsah Prempeh

In Emergency Medicine:
Mohammed Mayet

In Family Medicine:
Anthony Bassey-Essien Nya

In Medicine:

Daniël Francois Du Plooy (with distinction in the dissertation) Hsin-Chi Huang (with distinction in the dissertation)

Sarah Kariv

Ying Zhao (with distinction in the dissertation)

In Neurosurgery: Christel Day

Andrew Chiften Mathole

In Obstetrics & Gynaecology:
Charlene Adjoa Adobea Annor (with
distinction in the dissertation)
Francisca Elizabeth Loggenberg
Colin Jaco Montgomery
Carrie Anne Paulsen

In Ophthalmology:

Anna Steyn (with distinction in the dissertation)

In Paediatrics:

Zeenaat Gaibee

Mbalenhle Purity Gumede

Natalie Joëlle Vandenbroucke (with distinction in the dissertation)

In Radiology:

Innocent Vusumusi Ncube

In Surgery:

Earl Scout

DEGREE OF MASTER OF NURSING IN CHILD NURSING

Akua Dwomoh Boateng Jabulani Kgasapane Ireen Muleya Winnie Wanjiru Njuguna (with distinction)

DEGREE OF MASTER OF PHILOSOPHY

In Biokinetics:

Thulfieq Behardien

In Biomedical Forensic Science:

Kyle Sieghard Kulenkampff (with distinction)

In Health Innovation:

Jaydon Ethan Farao (with distinction in the coursework component)

In Nephrology (Adult):

Mothusi Walter Moloi (with distinction in the dissertation)

In Paediatric Infectious Diseases:

Oliver Ombeva Malande (with distinction in the dissertation)

DEGREE OF MASTER OF PHILOSOPHY IN EMERGENCY MEDICINE

In Clinical Emergency Medicine:
Antoinette Vanessa Naidoo

In Disaster Medicine Tariq Lafi Alshaabani

DEGREE OF MASTER OF PUBLIC HEALTH

In Community Eye Health:

Anderson Ikechukwu Chimeziri (with distinction in the dissertation)

Mackline Hope

George Moyo (with distinction in the dissertation)

In Epidemiology:

Brian Thabane Rambau (with distinction in the dissertation) Johannes Petrus Rossouw (with distinction)

In Health Economics:

Esther Zvikomborero Chanakira (with distinction)

Alex Magezi Odwa Mfolozi

In Public Health:

Nomcebo Precious Garnett Otiku Paul Kuodi (with distinction in the dissertation)

In Social & Behavioural Sciences: Shehani Pramodya Perera (with distinction)

DEGREE OF MASTER OF SCIENCE IN BIOMEDICAL ENGINEERING

Jason Leslie Collier (with distinction)

DEGREE OF MASTER OF SCIENCE IN MEDICINE

In Emergency Medicine:
Alexandra Friedman

In Medical Biochemistry:
Sinead Carse (with distinction)

In Medical Virology:
Akiko Suzuki (with distinction)

In Medicine:
Pheletso Letuka
Lihle Bayavuya Moyakhe
Hadil Adel Ibrahim Mohamed Saad

DEGREE OF MASTER OF SCIENCE IN OCCUPATIONAL THERAPY

Lian-Marie Coetzee

DEGREE OF MASTER OF SCIENCE IN PHYSIOTHERAPY

Dustin Maree

DEGREE OF DOCTOR OF PHILOSOPHY

 ${\it In Bioinformatics:}$

Fredrick Nzabanyi Nindo

Thesis Title: Exploring the phylodynamics, genetic reassortment and RNA secondary structure formation patterns of orthomyxoviruses by comparative sequence analysis

Fredrick Nindo holds a BSc in Biomedical Sciences from Maseno University, Kenya. After working as an assistant research scientist at KEMRI/USA CDC Research collaboration program in Kenya he joined the University of Western Cape and was awarded a MSc degree in Bioinformatics. Following this he joined UCT for his PhD.

Fredrick Nindo's thesis explores the epidemiological and evolutionary dynamics of orthomyxoviruses through joint analysis of genetic sequence data and epidemiological data. He uses state of the art computational biology and statistical modelling techniques. He starts by investigating the introduction to Africa and subsequent spread of the 2009 Influenza A/H1N1 pandemic virus. He shows that there were multiple introductions of A/H1N1 to Africa and that geographical distance between outbreak locations and human mobility through air travel were the most likely contributors to epidemic spread. Using genetic sequence data collected from 1927-2013 he demonstrates that Influenza virus reassortment occurs frequently in surface segments rather than internal segments and that reassortment has occurred continuously over the last century with reassortant lineages arising in South East Asia and North America. Overall Fredrick Nindo's work demonstrates how pathogen genomicsbased analytical approaches can directly provide information that enables better disease control.

Supervisor: A/Professor D Martin (Integrative Biomedical Sciences)

In Biomaterials: Ellen Ngarande

Thesis Title: Sustained hydrogel-based delivery of RNA interference nanocomplexes for gene knockdown

Ellen Ngarande completed her BSc in Biochemistry and BSc(Med)(Hons) in Medical Biochemistry at UCT, and began full-time study towards her PhD in 2013.

Ellen Ngarande's thesis reports on the development of a hydrogel-based RNA interference (RNAi) delivery system. RNAi has great potential as a therapy for a wide range of pathologies, but deployment in the clinic is impeded by inadequate delivery. She investigates a range of in-house synthesised and commercially available nanocomplexes for suitability for hydrogel-based delivery of RNAi oligonucleotides. In conjunction, the controlled release potential of synthetic and natural hydrogels is determined. Three-dimensional in vitro assays are developed that allow for identification of the optimal combination of hydrogel and nanocomplex (pegylated fibrin Invivofectamine® liposome) for improved gene knockdown. The ability of this system to enhance gene knockdown is then demonstrated in skeletal muscle in a pre-clinical animal model. These findings further progress towards more efficacious delivery systems for deployment of RNAi in the clinic.

Supervisor: A/Professor NH Davies (Surgery)
Co-supervisor: A/Professor D
Bezuidenhout (Surgery)

In Clinical Science & Immunology:
Brunette Katsandegwaza
Thesis Title: Determining the impact of
Heligmosomoides polygyrus infection
on the development of colitis

Brunette Katsandegwaza holds a BSc(Hons) from the University of Zimbabwe, and an MSc in Biology from Vrije Universiteit, Brussels. She was employed as a lecturer at Chinhoyi University of Technology in Zimbabwe before joining UCT in 2016 for her PhD studies.

Katsandegwaza's Brunette thesis focuses on the impact of helminth infection on the development of inflammatory bowel disease. She first optimises two murine models of inflammatory bowel disease, before reporting the deleterious effects of a gastrointestinal helminth infection disease development. Using high throughput 16S bacterial DNA sequencing, she further demonstrates that exacerbation of inflammatory bowel disease following helminth infection is associated with distinct changes in the disease-causing microbiota. Finally, using an 8-strain lactic acid producing probiotic mix, she reports the beneficial role of restoring the microbiota in preventing helminth exacerbation of inflammatory bowel disease. She concludes her thesis by discussing the relevance of her findings to helminthexacerbated inflammatory diseases.

Supervisor: Dr K Smith (Pathology)
Co-supervisor: A/Professor W Horsnell (Pathology)

Jermaine Khumalo

Thesis Title: The temporal requirement of IL-4Ra signalling in allergic asthma and the role of IL-4Ra-responsive regulatory T cells in restraining allergic airway inflammation

Jermaine Khumalo holds a BSc(Hons) in Applied Biology and Biochemistry from the National University of Science and Technology, Zimbabwe and an MSc Med in Medical Microbiology from UCT. He began full-time study towards his PhD in the Division of Immunology in 2015.

Jermaine Khumalo's thesis reports the potential therapeutic effect of selective inhibition of IL-4R α -signalling in mice, an essential driver of TH2-type airway inflammation in allergic asthma. His findings show that IL-4R α depletion in mice with established allergic airway disease and systemically sensitised mice prevents the development of ovalbumininduced airway obstruction and airway inflammation. He concludes that the abrogation of IL-4R α -signalling after allergic sensitisation would significantly benefit treatment of TH2-type allergic

asthma. He extends his research to investigate the cell specific role of IL-4R α -signalling on regulatory T cells (Tregs) in allergic asthma with aims to re-establish immunological tolerance. With depletion of the IL-4R α -responsive Tregs he shows exacerbated airway obstruction and mucus production in allergen-sensitised mice. He attributes this to an unrestrained increase in IL-33-induced type-2 innate lymphoid cells (ILC2s) in the lung responsible for the TH2 acute inflammation. Conclusively, these findings are key in maintaining tolerance in ILC2 driven allergic asthma.

Supervisor: Professor F Brombacher (Pathology)

Co-supervisor: Dr S Hadebe (Pathology)

In Exercise Science:
Megan Charmaine Dutton
Thesis Title: The cricketing shoulder:
biomechanics and analysis of potential
injury risk factors to the shoulder in
elite cricketers

Megan Dutton holds a BPhysT degree (University of Pretoria) and an MSc in Physiotherapy from UCT. She joined the Division of Exercise Science and Sports Medicine at UCT in 2016 for her doctoral research. Throughout her studies, she managed her physiotherapy practice and maintained her clinical skills.

Dutton's Megan focuses on the impact of cricket on the shoulder joint. She presents the first broad investigation of all cricket related dominant shoulder injuries, irrespective of the time lost to training and/or match participation. She then goes on to investigate the musculoskeletal risk factors associated with non-traumatic shoulder injuries in cricketers, utilising an innovative pre-season shoulder screening protocol. These studies highlighted the significant impact of overhead throwing on the injury risk and potential musculoskeletal adaptation of the shoulder. This prompted her to analyse the three-dimensional motion of overhead throwing utilised by cricketers. She presents a novel description of joint kinematics and kinetics of cricketers

throwing from a stationary position, and with a run-up. She utilises these findings to describe the potential contribution of repetitive overhead throwing on both the injury risk and musculoskeletal adaptations observed in the shoulder of elite cricketers.

Supervisor: Dr J Gray (Human Biology) Co-supervisor: Dr N Tam (Human Biology)

Rebecca Elin Johansson Thesis Title: *Interactions between* training load, submaximal heart rate, and performance in endurance runners

Rebecca Johansson completed her BA and MS qualifications at the University of Wisconsin-Madison, USA and began full-time study towards her PhD at UCT in 2016.

Rebecca Johansson's thesis examines the relationships between objective variables measured automatically with wearable devices, with the goal of using these variables to manage and customize the training of endurance runners. She developed a submaximal test that runners can perform themselves during training. Data from the test are loaded automatically into a database after each training session. This methodology enabled participants to be studied in a free-living environment. Worsened performances were associated with a higher heart rate during the submaximal test in 21% of the participants. Ad libitum training load varied, even in similarly matched runners, and was a poor predictor of performance. Her thesis confirms the uniqueness of the training load recovery balance. This can be managed over time by making adjustments to the load/recovery balance based on the athlete's symptoms which are measured objectively.

Supervisor: Professor M Lambert (Human Biology)

Co-supervisor: Dr J Swart (Human Biology)

In Human Genetics:
Ramadhani Salum Chambuso
Thesis Title: Human Immunodeficiency
Virus/Human Papillomavirus co-infection and host molecular genetics of
cervical carcinoma

Ramadhani Chambuso holds a Doctor of Medicine, Master of Public Health and MSc in Oncology from the University of Porto, Portugal. He joined the Faculty of Health Sciences at the University of Cape Town in 2015 for his PhD studies. He works as an Oncologist at Morogoro Regional Referral Hospital in Tanzania.

Ramadhani Chambuso's thesis focuses on the influence of host molecular genetic variations and alterations on human immunodeficiency virus type 1 (HIV-1), and human papillomavirus (HPV) co-infection, and cervical carcinogenesis in a cohort of South African women. Human papillomavirus infection alone may influence cervical disease development to a significant extent when it is combined with the apparently high-risk host Human Leukocyte Antigens class II alleles. The presence of HIV-1 as a co-infection increases frequency of genetic alterations, which suggests increasing the relative risk of invasive cervical cancer development and the rate of cervical disease progression in some women.

Supervisor: Professor R Ramesar (Pathology) Co-supervisors: Professor CM Gray (Pathology); Professor A-L Williamson (Pathology)

In Medical Microbiology:
Rendani Innocent Manenzhe
Thesis Title: Nasopharyngeal
colonization dynamics with
Streptococcus pneumoniae and
associated antimicrobial resistance in
a South African birth cohort

Rendani Manenzhe holds a BSc Medical Science degree (cum laude) from the University of Limpopo, and an MSc Med in Medical Microbiology from UCT. His undergraduate and master's research focused primarily on bacteria and antimicrobial resistance, instilling a passion for clinical research to limit the

spread of infectious diseases.

Rendani Manenzhe's thesis describes the use of conventional cutting-edge techniques investigate antimicrobial-resistance amongst pneumococci colonizing the nasopharynx of South African infants immunised with 13-valent pneumococcal conjugate vaccine (PCV13), through the first year of life. This study indicates no overall change in the prevalence of antibiotic-resistant pneumococci during the study period. Despite all children being vaccinated, the study revealed the presence of vaccine serotypes and non-PCV13 serotypes. The study also found a higher number of vaccine serotypes which are commonly resistant to antibiotics (penicillin, erythromycin, and cotrimoxazole). It further describes the use of a novel approach to studying pneumococcal colonization dynamics and antimicrobial-resistance using next generation sequencing technology. Four novel pneumococcal genotypes and genotypes endemic to Africa, as well as varying colonization patterns for each infant were identified, highlighting the power of this technique to produce a comprehensive description of the pneumococcal component nasopharyngeal microbiota and resistome.

Supervisor: Dr C Moodley (Pathology) Co-supervisors: Professor M Nicol (Pathology); Dr F Dube (Molecular and Cell Biology)

In Medicine:
Ju-Wei Chang
Thesis Title: A comparative study of
smoke exposure on host immunity to
infection

Ju-Wei Chang completed her BSc, BSc(Hons) and MSc degrees at UCT, and began full-time study towards her PhD in 2015.

Ju-Wei Chang's thesis compares the cytotoxic potential of single and combinatorial sub-components of household air pollution (biomass fuel particulate matter, cigarette smoke and electronic cigarettes) on macrophages and epithelial cells. She shows that exposures differentially induce cytotoxicity on macrophages and epithelial cells. This led to further investigations into the effects of the sub-components on the human immune response to mycobacterial and pneumococcal infections using a monocyte-derived macrophage model. She shows that exposures did not alter uptake of mycobacteria, but co-exposures of particulate matter and cigarette smoke impairs the pro-inflammatory cytokine response to infection. Whereas, particulate matter alone inhibits the uptake of pneumococci bacilli. Cigarette smoke and electronic cigarette vapour impair pneumococci-induced pro-inflammatory cytokine response, without altering bacterial uptake. These observations show that exposure to biomass fuel, cigarettes and electronic cigarettes can negatively impact and weaken the immune response to respiratory infections. Exposures to air pollutants need to be reduced to enhance the cells' abilities to combat bacterial infections.

Supervisor: A/Professor R van Zyl-Smit (Medicine)

Co-supervisors: Professor J Grigg (Queen Mary University of London, Paediatric Respiratory and Environmental Medicine); Dr A Pooran (Medicine)

In Nephrology (Adult):
Udeme Ekpenyong Ekrikpo
Thesis Title: Chronic kidney disease
in HIV populations: prevalence, risk
factors and role of transforming growth
factor beta (TGF-β1) polymorphisms

Udeme Ekrikpo is a qualified Physician and Nephrologist from Nigeria. He obtained his medical degree from the University of Ibadan (Nigeria) and postgraduate fellowship (FMCP) from the postgraduate medical college in Nigeria. He holds an MSc (Med) degree in Epidemiology and Biostatistics from the University of the Witwatersrand.

Udeme Erikpo's thesis focuses on the prevalence and factors associated with chronic kidney disease (CKD) in HIV-positive patients in the Southern Nigerian region of Akwa-Ibom state. He starts by conducting a global systematic review and meta-analysis of CKD

in HIV patients and then continues by assessing the prevalence of CKD and risk factors for CKD among HIV patients in this region. He reports a high prevalence of both CKD and CKD risk factors. He highlights the need for government to improve CKD treatment and for early detection programs in the HIV population. He further studied the association of urinary TGF-B1 with prevalent CKD in the HIV population and the association between genetic polymorphisms of TGF-β1, APOL1 and HMOX1 with CKD in this population. He found an association with CKD and APOL1 and TGF-β1. Genetic testing may be used to predict the risk of CKD in the HIV population in Nigeria.

Supervisor: Professor I Okpechi (Medicine) Co-supervisors: Professor A Kengne (South African Medical Research

Council); Professor A Wonkam (Pathology); Professor C Dandara (Pathology); A/Professor A Bello

(Medicine)

In Nuclear Medicine:
Anita Brink
Thesis Title: Renogram image
characteristics and the reproducibility
of differential renal function
measurement

Anita Brink holds a MBChB degree from the University of Pretoria and an MMed in Nuclear Medicine from UCT. She enrolled for the PhD in 2013.

Anita Brink's investigates the image characteristics associated with the reproducibility of differential renal function measurements when performing MAG3 renography in the paediatric population. The image characteristics and reproducibility of the differential renal function estimates of the 127 patients in sample one were used to identify the characteristics which may be associated with reproducibility. The associations between these image characteristics and reproducibility were then tested in a second sample of 227 patients. The only variables which consistently predicted good and poor reproducibility for the measurement of differential renal function measurements

on 99mTc MAG3 renograms performed according to the EANM guidelines were; age, left target to background ratio, right target to background ratio and time visualisation right calyces. Calculating the target to background ratio when processing renograms may be a useful quality control step and could alert the reporting physician that the values for differential renal function may not be reproducible.

Supervisor: Professor M Levin (Paediatrics and Child Health) Co-supervisor: Emeritus A/Professor MD Mann (Paediatrics and Child

In Psychiatry:
Nicola Anne Gray
Thesis Title: Atopic dermatitis in a
low-middle-income country setting:
psychosocial associations and analysis
of select biological mechanisms

Nicola Gray completed her BSocSc and MBChB qualifications at UCT. After completing her internship and community service, she began studying towards her PhD in 2017.

Nicola Gray's thesis focuses on the relationship between psychosocial stressors and atopic dermatitis (AD). She led three case control studies to investigate various mechanisms that might account for observed associations between exposure to stressors and atopic dermatitis, and between atopic dermatitis and increased risk of anxiety and depression. She went on to demonstrate that subtle zinc deficiency may contribute to atopic dermatitis, particularly in older children. She also found that elevated hair cortisol levels are associated with atopic dermatitis providing a new perspective on the potential role of hypothalamic-pituitary-adrenal axis. Finally, she analysed an array of inflammatory markers in adults with and without atopic dermatitis, and found that elevated circulating Interleukin-4 may contribute to anxiety symptoms in adults with atopic dermatitis. These findings will be useful in designing future studies, with the goal of informing

future treatment targets and public health interventions.

Supervisor: Professor DJ Stein (Psychiatry and Mental Health)
Co-supervisor: Professor NP Khumalo (Medicine)

In Public Health:
Lesley Blinn Gittings
Thesis Title: Ezobudoda ('manhood things') a qualitative study of HIV-positive adolescent boys' and young men's health practices in the Eastern Cape Province of South Africa

Lesley Gittings holds a BComm from the University of Ottawa, and an MPhil (Public Policy) from UCT. She joined the School of Public Health and AIDS and Society Research Unit for PhD studies in 2016. She has worked with the NGO and government sectors in South Africa, Malawi, and Canada.

Lesley Gittings' thesis explores the biosocial lives of adolescent boys and young men living with HIV in the Eastern Cape Province of South Africa. As part of the first generation of HIV-positive children to survive into adulthood due to antiretroviral therapy, participants felt pressures to adhere to their medical regimens and attend health facilities as children. As they became men, they started to face conflicting challenges in caring for their health, relating to the development of masculine identities. This was most apparent during and following traditional initiation/ circumcision, which made engagement with biomedical care difficult with potentially long-lasting consequences. However, participants and their families also demonstrated creativity and resilience in their health practices during this time. She concludes that health practices are mediated not only by gender, but also childhood experiences of illness. As such, growing up within the health system may forge additional tools for health-seeking.

Supervisor: A/Professor C Colvin (Public Health and Family Medicine) Co-supervisor: Dr R Hodes (AIDS and Society Research Unit) Remmy Malama Shawa

Thesis Title: Conceptualising the right to enjoy benefits of scientific progress and exploring its potential to enhance access to effective diagnosis and treatment of drug-resistant tuberculosis in South Africa

Remmy Shawa holds a BA from the University of Zambia and an MPH from UCT. He started his PhD in 2016 and was awarded a mobility PhD award. He became a part-time student the following year and joined UNESCO as head-of-office for South Africa.

Remmy Shawa's thesis focuses on the right to enjoy the benefits of scientific progress (REBSP) and how the right can contribute to improving access to effective diagnosis and treatment of drug-resistant tuberculosis (DR-TB) in South Africa. He starts by conducting a legal analysis to investigate the current gaps in the normative content of the right in international law. He then analyses South Africa's own laws, policies and court cases to ascertain the country's efforts towards the realisation of the REBSP. He finds that although South Africa has adequate laws and policies that encourage science, it lacks a framework law to promote public access to benefits of scientific progress. He then proposes normative content for the REBSP. This includes core obligations and responsibilities of State and non-state actors, which he uses to apply the REBSP to DR-TB treatment, specifically in the South African context.

Supervisor: Professor L London (Public Health and Family Medicine) Co-supervisors: A/Professor H Cox (Pathology); Professor F Coomans (Law)

Tryphine Zulu
Thesis Title: Socioeconomic
inequalities in non-communicable
diseases in South Africa

Tryphine Zulu holds a Bachelor of Pharmacy, MSc(Med) Pharmacotherapy and MPH in Health Economics. She began part-time study towards her PhD in 2015. She works in the Health Insurance sector in Disease Risk Management

and serves on the advisory panel of the WHO on private sector governance for Universal Health Coverage.

Tryphine Zulu's thesis uses the concentration index and analysis to decomposition assess socioeconomic inequality and the drivers of socioeconomic inequality in non-communicable diseases (NCD) risk factors, inequity in the use of screening services and effective coverage of services for NCDs. Her thesis also borrows from the poverty literature to assess the depth and severity of obesity and hypertension. Her thesis finds ineffective management of NCDs in South Africa, with low levels of awareness, diagnosis and control. Severe hypertension is common among the poor and vulnerable, due to an interplay of late diagnosis, inequitable and low uptake of screening tests, poor access to optimal treatment and/or non-adherence to care. Her findings are useful for policies to address the risk factors of NCDs, the low uptake of screening tests and the poor outcomes in the management of NCDs as the country moves towards Universal Health Coverage.

Supervisor: A/Professor J Ataguba (Public Health and Family Medicine)

ACADEMIC DRESS

OFFICERS OF THE UNIVERSITY

CHANCELLOR

The Chancellor wears a gown made from dark blue silk. The front of the gown has facings down each side made of dark blue velvet embroidered with a gold floral design. The gown and sleeves are lined with pale blue silk and the sleeves are looped up in front with a gold cord and button. The yoke of the gown is edged with gold cord. The gown is worn with a square blue velvet hat with a soft crown and gold tassel.

VICE-CHANCELLOR

The Vice-Chancellor wears a gown made from bright blue silk. The front of the gown has facings down each side and sleeve-linings of pale blue silk. The sleeves are looped up in front with a gold cord and button and the yoke of the gown is edged with gold cord. The gown is worn with a black velvet bonnet with a silver cord.

DEPUTY VICE-CHANCELLOR

A Deputy Vice-Chancellor wears a gown made from dark blue silk. The gown has closed sleeves with an inverted T-shaped opening at the level of the elbow to free the arms. The front of the gown has facings of light blue down each side. The sleeves are lined with light blue and the yoke of the gown is edged with silver cord. The gown is worn with a black velvet bonnet with a silver cord.

CHAIR OF COUNCIL

The Chair of Council wears a gown, of the same pattern as that worn by the Vice-Chancellor, made from light blue silk. The front of the gown has facings down each side and a yoke of dark blue. The sleeves are lined with dark blue and the facings and yoke are trimmed with gold cord. The sleeves are looped up in front with a gold cord and button. The gown is worn with a black velvet bonnet with a gold tassel.

MEMBERS OF COUNCIL

Members of Council wear graduate-pattern gowns made from black silk. The front of the gown has 10cm wide, light blue facings down each side trimmed with dark blue cord. The gown is worn with a black velvet bonnet with a blue cord.

REGISTRAR

The Registrar wears a gown made from black silk. The front of the gown has 10cm wide facings of blue silk down each side. The gown is worn with a black velvet bonnet with a white cord.

PRESIDENT OF CONVOCATION

The President of Convocation wears a gown made from black silk and has long closed sleeves with an inverted T-shaped opening at the level of the elbow to free the arms. The front of the gown has facings down each side and sleeves of blue silk. The gown is worn with a black velvet bonnet with a blue tassel.

ACADEMIC DRESS (continued)

GOWNS

A plain black gown styled after the pattern of the Oxford scholar's gown is worn by diplomats, and Bachelor's, Honours and Master's graduands. Senior doctoral graduands wear a scarlet gown, with facings the colour distinctive of the faculty in which the degree is awarded. PhD graduands wear a scarlet gown without facings.

HOODS

The hood is particular to the qualification and the faculty. Diplomates and Bachelor's graduands wear a black hood lined with white and edged with the colour distinctive of the faculty. Master's graduands wear a black hood lined with the colour distinctive of the faculty and edged with white, except in the case of the hood for the MMed degree, which is edged with red. Senior doctoral graduands wear a hood of the colour distinctive of the faculty and a black velvet bonnet with a cord of the colour distinctive of the faculty in which the degrees is awarded. PhD graduands wear a hood of scarlet lined with black and a black velvet bonnet with a cord of the colour distinctive of the faculty in which the degree is awarded.

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Faculty of Engineering and the Built Environment
Green
Faculty of Health Sciences
Red
Faculty of Law
Old gold
Faculty of Humanities
Blue
Faculty of Science
Purple

HISTORICAL SKETCH

Founded as the South African College (a boys' school that aimed to provide higher education as well) in 1829, the University was established as the University of Cape Town in 1918.

The early history was one of great expectations and hard times and it was not until the early years of the twentieth century that the University was developed into a fully-fledged tertiary institution. A significant and pioneering development in the 19th century was the admission of women as degree students in 1886, many years ahead of most universities in the world.

At the start of the 20th century the University incorporated the Diocesan College, the teacher training classes of the Normal College, the South African College of Music and the Cape Town Schools of Fine Art and Architecture.

The Medical School was established and in the 1920s the University began a partnership with the local health authority (now the Provincial Government's health department) that saw the Medical School move from the Hiddingh Campus and the Green Point Somerset Hospital to Observatory (the rest of UCT's Upper Campus moved from Hiddingh to its present site, on part of Cecil Rhodes' estate, in 1928). This partnership allowed for the construction of the first Groote Schuur Hospital on a University site. The partnership continues to this day and now involves not only Groote Schuur as a teaching hospital but Red Cross Children's Hospital, Valkenberg and a growing number of primary health care sites.

The period between the end of World War II and 1994 was marked by two themes. Firstly, the University recognised that if it was to be fully South African, it would have to move beyond academic non-segregation to be fully inclusive. It would have to face the consequential and increasing clashes with a government determined to legislate for segregation and enforce the doctrine of apartheid. And secondly, the University intended to transform into a leading research institution.

Before World War II, the University was largely a teaching university and its students were mostly undergraduates. The research undertaken was sporadic, though in some cases notable. A research committee was appointed for the first time in 1945. The next 75 years saw a great expansion of research and scholarly work such that the UCT of 2014 has a greater proportion of highly rated researchers and gains significantly more research grants and awards than any other South African University.

The 1980s and 1990s were characterized by the deliberate and planned transformation of the student body. This was aided by the establishment of the Academic Development Programme aimed at helping students from disadvantaged educational and social backgrounds to succeed and the desegregation of student residences. As a result, a student body that was 90% white in 1979, when UCT marked its 150th anniversary, is in 2014 more than 50% black. The total student enrolment of just above 26 000, includes international students drawn from over 100 countries, a significant proportion of which are from SADC states. Particular emphasis is placed on postgraduate studies and more than 20% of these students will be enrolled in master's and doctoral programmes. A growing number of postdoctoral fellows contribute substantially to the research endeavours and reputation of the University (UCT has more than a third of the total number of post docs in South Africa).

UCT continues to work towards its goal to be Africa's leading research university. Its success can be measured by the scope of study it offers and the calibre of its graduates.

VISION AND MISSION UNIVERSITY OF CAPE TOWN

Vision

An inclusive and engaged research-intensive African university that inspires creativity through outstanding achievements in learning, discovery and citizenship; enhancing the lives of its students and staff, advancing a more equitable and sustainable social order and influencing the global higher education landscape.

Mission

UCT is committed to engaging with the key issues of our natural and social worlds through outstanding teaching, research and scholarship. We seek to advance the status and distinctiveness of scholarship in Africa through building strategic partnerships across the continent, the global south and the rest of the world.

UCT provides a vibrant and supportive intellectual environment that attracts and connects people from all over the world.

We aim to produce graduates and future leaders who are influential locally and globally. Our qualifications are locally applicable and internationally acclaimed, underpinned by values of engaged citizenship and social justice. Our scholarship and research have a positive impact on our society and our environment.

We will actively advance the pace of transformation within our University and beyond, nurturing an inclusive institutional culture which embraces diversity.

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The University of Cape Town gratefully acknowledges the sustained contributions of the following partners.

Their generosity has assisted us toward our goals of improving student access to tertiary education and promoting curriculum, staff and student transformation; increasing our research capacity; and implementing programmes that promote social engagement and community upliftment.

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Individuals whose gifts to UCT over the last five years have amounted to less than R100,000. 2840 individuals who have generously shown their support by making a gift to the University of Cape Town.

Bequests

Individuals who have bequeathed a legacy Derek Stuart Franklin RM Moss

gift to UCT in their wills.

Sybil Elizabeth Laura Gauntlett

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Note:

As of January 2015, the levels of individual donors' giving circles have changed as follows:

- Chancellor's circle: formerly R250 000+, now R500 000+;
- Vice-Chancellor's Circle: formerly R100 000 R250 000, now R250 000 R500 000;
- Dean's circle: formerly R60 000 R100 000, now R100 000 R250 000;
- Friends of UCT: formerly <R60,000, now <R100,000.

Please note that these changes only affect donations received after 1 January 2015. All donors who were members of particular circles prior to January 2015, will continue to be recognised in their original circles, until the rolling five-year giving period has elapsed.

We apologize for any omissions or errors. If you would like to query your donations totals, circle membership, or any other matter related to your gifts to UCT, please email giving@uct.ac.za.

A full list of UCT donors is also available at www.uct.ac.za/main/donating-to-uct/donor-recognition.

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Welcome, Wamkelekile, Welkom – today is not the end of your relationship with the university but the beginning of a new phase in your continuing relationship with UCT, one that you share with the UCT community of over 100 000 alumni.

Diverse as this community is, the shared experiences of a critical academic ethos and a spectacular campus make for a strong network that has a wide footprint, not only in South Africa, but across the continent and the globe.

We set a great store by our links with our alumni, and indeed the links alumni have with each other. We promise that we will be in touch, and ask you in turn to let us know not only your current contact details but also, from time to time, something of your lives and where you are in your careers.

Updates can be done on the web – http://www.uct.ac.za/dad/alumni/update/ - or by writing to the Alumni Office, UCT, PB X3 Rondebosch 7701 or by contacting us on (27) (21) 650 3746.

Your alma mater looks forward to welcoming you back, whether to a public lecture, a leadership forum, your class reunion, or just an informal call!

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