



Faculty of Health Sciences RESEARCH FORUM 2024

Inspiring excellence. Transforming lives.



FACULTY OF HEALTH SCIENCES 55th RESEARCH FORUM

22 AND 23 AUGUST 2024

On behalf of the organising committee, we warmly welcome all presenters, participants, and guests of the 55th Faculty of Health Sciences Research Forum. We also sincerely thank the external evaluators and the FP Retief Speaker.

The Faculty of Health Sciences Research Forum is one of the most notable events on the faculty calendar and continues to affirm the value of high-quality research. Furthermore, it serves as a valuable platform to showcase the research being conducted in the Faculty of Health Sciences while exposing the staff and postgraduate students presenting their research to an audience of their peers.

Building on the success of previous meetings, the 2024 Faculty Research Forum promises to deliver several notable guest lectures with many high-quality clinical, laboratory and educational oral and poster presentations.

We are looking forward to an excellent forum with you.

- The 2024 Faculty Research Forum Organising Committee

**MESSAGE FROM PROFESSOR C JANSE VAN VUUREN
ACTING DEAN FACULTY OF HEALTH SCIENCES**



It is that time of year again – when researchers from the Faculty of Health Sciences come together to share their research and celebrate the excellent work colleagues are doing. Welcome to this year's Faculty Forum. I hope it will be an inspiring couple of days of sharing, learning and planning for (or dreaming about) future research.

At the 55th edition of our Faculty Forum, we welcome Prof Johnny Mahlangu as our FP Retief speaker. Prof Mahlangu is a renowned researcher, academic and Clinical Haematologist from the University of the Witwatersrand, with many publications in high-impact journals, including the NEJM, Lancet, Blood and JTH. Let us give Prof Mahlangu a warm Free State welcome and use the opportunity to learn from one of the best!

I would also like to extend a hearty welcome to our three external adjudicators, who will have a mammoth task in evaluating our researchers' work. Dr Unati Nqebelele is a clinician scientist and nephrologist focusing on research within the broader field of kidney disease; Prof Ben Loos, chair of Physiological Sciences at the University of Stellenbosch, focusing on research in neurology; and Prof Yolande Heymans, a recognised researcher within the domains of health professions education and the scholarship of teaching and learning. Please ensure you do not miss their keynote addresses.

Furthermore, I would like to acknowledge each Faculty Forum organising committee member for their dedication and hard work. I am deeply grateful to each of you for the time and energy spent ensuring that this year's forum will succeed. My gratitude is also extended to the faculty support staff, all sponsors and donors for their contributions towards the success of this year's Forum.

Lastly, I want to thank each researcher who presented or attended the Faculty Forum this year. Your commitment to changing the lives of so many people through your research is commendable, and I wish to celebrate each of you during this year's forum.

Enjoy the 2024 Faculty Research Forum!

- Prof Corlia Janse van Vuuren (Acting Dean)

FACULTY OF HEALTH SCIENCES RESEARCH FORUM 2024

24th FP RETIEF LECTURE

Prof JM Mahlangu



Johnny Mahlangu is a Full Professor of Haematology and Academic Head of the Department of Molecular Medicine and Haematology in the Faculty of Health Sciences of the University of the Witwatersrand and the National Health Laboratory Service. He is also a Consultant Clinical Haematologist at the Charlotte Maxeke Johannesburg Academic Hospital. He received his undergraduate and postgraduate training in science and medicine at the University of the Witwatersrand with haematology specialist and clinical haematology sub-specialist qualifications through the Colleges of Medicine of South Africa.

His main area of research is novel therapies in bleeding disorders, in which he has served as Principal Investigator for many international multicentre studies. He has published many peer-reviewed journal articles in high-impact journals, including the NEJM, Lancet, Blood and JTH. He has presented oral talks and poster abstracts at national and international scientific meetings. His academic citizenship includes membership in many national and international scientific committees.

FP RETIEF LECTURE

29 YEARS OF SPEAKERS

1995 - Dr C Slabber

1996 - Prof T Bothwell

Is dietary iron overload still a problem in South Africa?

1997 - Prof DJ Ncayiyana

Meeting the Higher Education Challenges in the 21st Century.

1998 - Prof S Kallichurum

Ethics: New Challenges

1999 - Prof RC Franz

Veneuse Trombogenese – Eenhonderd jaar na Virchow. 'n Terugblik met waardering.

2000 - Prof J Terblanche

Academic advances in biliary tract surgery: A Cape Town perspective

2001 - Prof JV van der Merwe

Kwessies van Gesondheidsorg

2002 - Dr MW Makgoba

The impact of HIV/AIDS in South Africa

2003 - Prof FP Retief

Prof CJ Nel's career span in the faculty

2004 - Prof A du P Heyns

Blood Safety

2005 - Prof Benatar

Trends in Bioethics: A Review

2006 - Prof B Mayosi

Quality Assurance: the fourth pillar of academic Medicine

2007 - Prof HH Vorster

Nutrition in South Africa: from Research to Policy

2008 - Prof MJ Viljoen

Bestuur vir Navorsing in 'n Fakulteit Gesondheidswetenskappe

2009 - Prof PN Badenhorst

Keeping the Research flame burning

2010 - Prof LR Uys

Challenges of Higher Education in South Africa

2011 - Prof EWW Sonnendecker

The Omnipotence of Vitamin K

2012 - Prof DJV Weich

Motivating and strengthening research in our Faculty of Health Sciences, UFS

2013 - Prof JD Jansen

The politics and epistemology of the healing sciences in South Africa

2014 - Prof J Volmink

Reflections on the Social Determinants of Health Research Outputs

2015 - Prof H Klopper

Global trends in health care: Implications for research, education, and policy

2016 - Prof B Morrow

Bridging the gap: Integrating research and clinical care in South Africa

2017 - Prof J Pettifor

Bone mass and fractures in South African children

2018 - Prof T Pillay

New diagnostic probes for laboratory medicine using nanobodies and next generation technology

2019 - Prof L Rispel

Building Scholarship and Capacity for Universal Health Coverage

2021 - Prof E Wentzel Viljoen

The South African Salt Story

2022 Prof Solomon Rataemane

Burnout: A key factor among health care practitioners

2023 Prof Zukiswa Zingela

From rough seas to calmer shores: how do we navigate our profession without sacrificing our health and well-being?

**FACULTY OF HEALTH SCIENCES RESEARCH FORUM 2024
EXTERNAL ADJUDICATORS**

CLINICAL EXTERNAL ADJUDICATOR DR UNATI NQEBELELE



Dr Unati Nqebelele is a clinician scientist and nephrologist, who completed both her fellowship and PhD at the University of the Witwatersrand. She received funding from the prestigious Carnegie Corporation of New York and the South African Medical Research Council's Bongani Mayosi National Health Scholarship programmes, which enabled her to obtain her PhD in 2018 on "Genetics of hypertension-attributed chronic kidney disease in Black South Africans", where she was nominated for the most prestigious Degree (PhD) award. While at the Wits Department of Internal Medicine, she received the coveted Ken Huddle Role Model Award. She previously served at the South African Department of Health's Ministerial Advisory Committees on Organ and Tissue Transplantation, Renal Dialysis and Tertiary and Quaternary Level Expert Review. She is a past council member of the College of Physicians, Colleges of Medicine South Africa. To further improve her research capacity and expertise, she received the SAMRC Post-PhD Career Development Award, where the SAMRC Noncommunicable Disease Research Unit and the University of Cape Town hosted her. She currently supervises postgraduate students, and her primary research interests include chronic kidney disease, genetics of kidney diseases in African populations, diabetes mellitus, hypertension and kidney disease in vulnerable groups.

EDUCATIONAL EXTERNAL ADJUDICATOR PROF YOLANDE HEYMANS



Prof Yolande Heymans is an Associate Professor at the Centre for Health Professions Education, Faculty of Health Sciences, North-West University. As module coordinator, she co-teaches an aligned, undergraduate module with 1500 students within an online modality. Her main research focuses on health professions education in the higher education context, specifically referring to the Scholarship of Teaching and Learning, enhancing student engagement, interprofessional collaborative learning, large class teaching, online learning, and authentic pedagogy. Yolande supervises postgraduate students in health professions education, and her publications include journal articles, book chapters, and conference proceedings.

FACULTY OF HEALTH SCIENCES RESEARCH FORUM 2024 EXTERNAL ADJUDICATORS

LABORATORY EXTERNAL ADJUDICATOR PROF BEN LOOS



Ben leads the Neuro Research Group. Over the last 13 years, he has sought to gain a better understanding of the role of autophagy activity, i.e., autophagic flux, in the onset of cell death associated with neurodegenerative diseases and gliomas. Ben's research focus centres on Alzheimer's disease and neuronal ageing, malignant brain tumours, as well as neuronal injury and trauma. To study the dynamics of the onset of cell death, he uses various microscopy techniques that allow single-cell and tissue analysis with high localisation precision and quantitative power. These include molecular/fluorescence imaging techniques such as structured illumination microscopy, quantitative single-molecule imaging approaches such as stochastic optical reconstruction microscopy (STORM), and photo-activation- and FRET. A novel control analysis and biophysics approach made it possible to assess the localisation and extent of control (as opposed to regulation) of autophagy activity, as well as the quantitative assessment of complex and dynamic intracellular networks formed by tubulin and mitochondria. This approach led to the development of a new methodology to quantify autophagic flux in a more standardised fashion. Recently, correlative light and electron microscopy (CLEM), light sheet microscopy and CLARITY have been implemented to allow for enhanced translation using pre-clinical spheroid models and rodent brain tissue. His research is anchored in collaborative solid activities with electrical/electronic engineering, leading to four patents associated with an autophagy sensing device and virtual reality-guided 3-dimensional precision analysis and mitochondrial dynamics software tools. The spinout company, Phagoflux, established in 2020, aims to develop autophagy sensing tools for the research, pharma, diagnostics and wellness market.

FACULTY OF HEALTH SCIENCES RESEARCH FORUM 2024

ORGANISING COMMITTEE

Chair	Dr Maryna Hattingh
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School of Nursing	Mrs Anna Marie Welman
Chair Clinical Internal Committee	Dr Liska Robb
Chair Laboratory Internal Committee	Mr Jean Kloppers
Chair Educational Internal Committee	Dr Arnelle Mostert
Chair Student Forum	Dr Jolly Musoke

EVALUATION COMMITTEES

CLINICAL

Internal evaluation committee	Dr Liska Robb (chair) Prof Busiswa Bisiwe Dr Déte van Eeden
External adjudicator	Dr Unati Nqebelele -South African Medical Research Council
External adjudicators of research articles	Dr Unati Nqebelele-South African Medical Research Council Prof Mariza Vorster - UKZN Dr Alex Doruyter - Stellenbosch University

LABORATORY

Internal evaluation committee	Mr Jean Kloppers (chair) Dr Matlakala Ntsapi Dr M Du Preez
External adjudicator	Prof Ben Loos- Stellenbosch University
External adjudicators of research articles	Prof Ben Loos – Stellenbosch University Dr Carmen Swanepoel – Stellenbosch University Prof Reubina Wadee- WITS

EDUCATIONAL

Internal evaluation committee	Dr Arnelle Mostert (chair) Ms Mashudu Rabambi Mrs Anna-Marie Welman
External adjudicator	Prof Yolande Heymans-NWU
External adjudicators of research articles	Prof Yolande Heymans-NWU Dr Jeanette du Plessis- CUT Dr Roan Slabbert- CUT

**PRIZE WINNERS OF RESEARCH ARTICLES
2024**

John van der Riet Medal Winner

Dr L de Man

“Comparison between ultrasound and chest X-ray to confirm central venous catheter tip position”.

Muller Potgieter Medal Winner

Dr A Lewies

“Monomeric glutaraldehyde fixation and amino acid detoxification of decellularized bovine pericardium for production of biocompatible tissue with tissue-guided regenerative potential”.

Kerneels Nel Medal Winner

Prof A Fichardt

“Psychological well-being, stressors, coping strategies and support of undergraduate healthcare”

FACULTY OF HEALTH SCIENCES RESEARCH FORUM 2024

ACKNOWLEDGEMENT OF PARTICIPATING COMPANIES

We express our sincere thanks to the companies mentioned below for their financial support and valued participation in the University of the Free State, 2024 Faculty of Health Sciences Research Forum.

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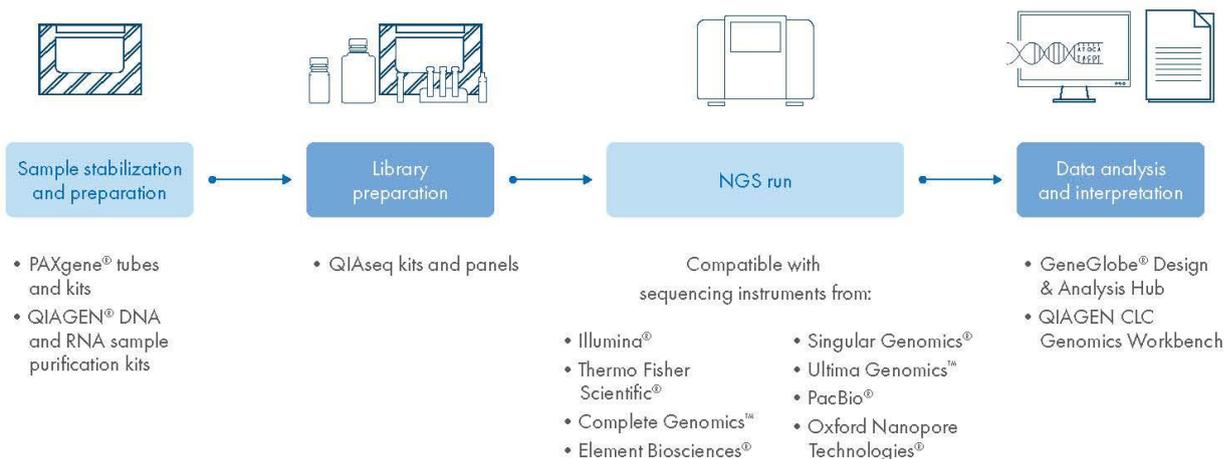


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PROGRAMME
THURSDAY, 22 August 2024

SESSION 1 08h00-08h30	KINE 1 Chairperson: Dr M Hattingh Opening Lecture: Prof C Janse van Vuuren		
SESSION 2 08h35-10h05	KINE 1 Clinical Papers	KINE 2 Laboratory Papers	KINE 3 Educational Papers
	Chairperson: Prof N Pearce	Chairperson: Dr J Joubert	Chairperson: Dr J Modula
08h35-08h50	CR 1 Botes, D	LR 1 van der Merwe, N	ER 1 van der Merwe, L
08h50-09h05	CR 2 Reid, M	LR 2 Nwabuiife, JC	ER 2 Vorster-de Wet, R
09h05-09h20	CR 3 Reid, M	LR 3 Oosthuizen, J	ER 3 Aluko, O
09h20-09h35	CR 4 Brits, L	LR 4 Fokazi, V	ER 4 van Wyk, R
09h35-09h50	CR 5 Pienaar, M	LR 5 Maass, P	ER 5 Swanepoel, A
09h50-10h05	CR 6 Ntantiso, B	LR 6 Schuman, N	ER 6 van Rooyen, FC
10h05-10h25	TEA		
SESSION 3 10h25-10h55	KINE 1 Chairperson: Dr A Mostert Invitation Lecture: Prof Yolande Heymans <i>It's about time!</i>		
SESSION 4 11H00-12H00	KINE 1 Clinical Papers	KINE 2 Laboratory Papers	KINE 3 Educational Papers
	Chairperson: Prof C Walsh	Chairperson: Prof F Burt	Chairperson: Prof C Janse v Vuuren
11h00-11h15	CR 7 Brits, L	LR 7 Joubert, J	ER 7 Spies, C
11h15-11h30	CR 8 Buankuna, M	LR 8 Janse van Rensburg, WJ	ER 8 Ramotubei, MM
11h30-11h45	CR 9 van der Merwe, M	LR 9 van der Westhuizen, B	ER 9 Kempen, E
11h45-12h00	CR 10 Sinclair, C	LR 10 Chibesa, K	ER 10 Saaiman, CMB
SESSION 5 12h00 – 13h00	KINE 1 Chairperson: Prof C Janse v Vuuren FP Retief Lecture: Prof JM Mahlangu <i>"Novel Therapies in the Treatment of Inherited Bleeding Disorders: From Replacement to Gene Therapy"</i>		

13h00-13h45	LUNCH		
SESSION 6 13h45 – 15h00	KINE 1 Clinical Papers	KINE 2 Laboratory Papers	KINE 3 Educational Papers
	Chairperson: Dr E le Grange	Chairperson: Prof W Janse v Rensburg	Chairperson: Dr E Kempen
13h45-14h00	CR 11 Walsh, C	LR 11 Ntaita, KS	ER 11 Carson-Potter, A
14h00-14h15	CR 12 Pillay, DN	LR 12 Ntombela, N	ER 12 Coetzee, MJ
14h15-14h30	CR 13 Smith, R	LR 13 Terblanche, G	
14h30-14h45	CR 14 Spies, HC	LR 14 van Jaarsveldt, D	
14h45-15h00	CR15 Okafor, H	LR 15 Notani, MD	
SESSION 7 15h00-15h45	KINE 1 Chairperson: Dr Jolly Musoke BEST STUDENT PAPERS		
15h00-15h15	School of Health and Rehabilitation Sciences		
15h15-15h30	School of Nursing		
15h30-15h45	School of Clinical Medicine		
15h45-16h00	THE END		

PROGRAMME
FRIDAY, 23 August 2024

SESSION 9 08h00-08h30	KINE 1 Chairperson: Dr L Robb Invitation Lecture: Dr U Nqebelele <i>"Lessons from a Clinician Scientist: What I wish I knew earlier in my career."</i>		
SESSION 10 08h35-10h50	KINE 1 Clinical Papers	KINE 2 Laboratory Papers	
	Chairperson: Dr C Barret	Chairperson: Dr S Dlamini	
08h35-08h50	CR 16 van Eeden, D	LR 16 Masilo, BB	
08h50-09h05	CR 17 Moagi, D	LR 17 Malebo, K	
09h05-09h20	CR 18 Joubert, BJ		
09h20-09h35	CR 19 Bowen, E		
09h35-09h50	CR 20 de Hill, P		
09h50-10h05	CR 21 Tsakanae		
10h05-10h20	CR 22 v d Merwe, E		
10h20-10h35	CR 23 Sesethu		
10h35-10h50	CR 24 Strydom, S		
10h50-11h00	BREATHER		
SESSION 11 11h00-11h30	KINE 1 Chairperson: Mr J Kloppers Invitation Lecture: Prof Ben Loos <i>Autophagy control in neurodegeneration and gliomas - towards translation.</i>		
SESSION 12 11h30-12h15	FOYER Clinical Posters	FOYER Laboratory Posters	FOYER Educational Posters
	Chairperson: Dr A Swanepoel	Chairperson: Dr J Musoke	Chairperson: Prof M Reid
11h30-11h35	CP-1 Buankuna, B	LP-1 Botha, J	EP-1 Brits, H
11h35-11h40	CP-2 Barret, C	LP-2 Anirudh, EE	EP-2 Jansen, P
11h40-11h45	CP-3 du Toit, E	LP-3 Nkoi, M	
11h45-11h50	CP-4 Moagi, D	LP-4 Masoto, N	
11h50-11h55	CP-5 Brits, L	LP-5 Mothudi, K	
11h55-12h00	CP-6 Hattingh, P	LP-6 Kennedy, S	
12H00-12H05	CP-7 Ntuli, MJ	LP-7 van der Westhuizen, B	
12h05-12h10	CP-8 Ntuthuko	LP-8 Le Grange, D	

12h10-12h15	CP-9 de Milander, M	LP-9 van der Westhuizen, B	
12h15-13h15	LUNCH		
Session 14 13h15-14h00	KINE 1 Chairperson: Dr M Hattingh Reflections: External Evaluators		
13h15-13h30	Reflection: Clinical External Adjudicator Dr Unati Nqebelele		
13h30-13h45	Reflection: Educational External Adjudicator Prof Yolande Heyns		
13h45-14h00	Reflection: Laboratory External Adjudicator Prof Ben Loos		
14h00-14h15	KINE 1 CLOSURE Dr M Hattingh		
<i>Ms Petunia Ranthamane will inform the prize winners. Winners are encouraged to please attend the awards ceremony in person.</i>			
15h00	KINE 1 AWARDS CEREMONY Master of Ceremonies & Toast to the Faculty of Health Sciences: Prof CD Viljoen Announcement of Winners: Prof C Janse van Vuuren		

PRESENTATIONS THURSDAY, 22 AUGUST 2024

Session 2	Kine 1 08h35	CR-1	<p>THE IMPACT OF EXPOSURE PARAMETERS ON THE DETECTABILITY INDEX OF WILMS TUMOR PEDIATRIC PROCEDURES IN SINGLE ENERGY COMPUTED TOMOGRAPHY.</p> <p style="text-align: center;"><i>Author: D Botes</i> <i>Department: School of Clinical Medicine, UFS</i></p>
Session 2	Kine 1 08h50	CR-2	<p>DESIGN REQUIREMENTS FOR A CONTEXTUAL SELF-MANAGEMENT TOOL FOR ADULTS DIAGNOSED WITH DIABETES</p> <p style="text-align: center;"><i>Author: M Reid</i> <i>Department: School of Nursing, UFS</i></p>
Session 2	Kine 1 09h05	CR-3	<p>SELF-MANAGEMENT PRACTICES IN TYPE II DIABETES IN LOW- AND MIDDLE-INCOME COUNTRIES: A SCOPING REVIEW</p> <p style="text-align: center;"><i>Author: Dr M Pienaar</i> <i>Department: School of Nursing, UFS</i></p>
	Kine 1 09h20	CR-4	<p>BILIARY ATRESIA: THE PROFILE, MANAGEMENT AND OUTCOME OF PATIENTS TREATED AT A TERTIARY HOSPITAL IN CENTRAL SOUTH AFRICA</p> <p style="text-align: center;"><i>Author: L Brits</i> <i>Department: School of Clinical Medicine, UFS</i></p>
Session 2	Kine 2 09h35	CR-5	<p>DEVELOPMENT OF ARTIFICIAL NEURAL NETWORK MODELS FOR PAEDIATRIC CRITICAL ILLNESS IN SOUTH AFRICA.</p> <p style="text-align: center;"><i>Author: Dr M Pienaar</i> <i>Department: School of Clinical Medicine, UFS</i></p>
Session 2	Kine 2 09h50	CR-6	<p>ANAEMIA IN MEDICAL INPATIENTS AT PELONOMI TERTIARY HOSPITAL: A SIGNIFICANT CONCERN</p> <p style="text-align: center;"><i>Author: Dr CL Baret</i> <i>Department: School of Clinical Medicine, UFS</i></p>
Session 2	Kine 2 08h35	LR-1	<p>A RARE OCCURRENCE OF DOUBLE HETEROZYGOSITY FOR VARIANTS IN THE HOMOLOGOUS RECOMBINATION REPAIR GENES OBSERVED FOR BREAST CANCER PATIENTS</p> <p style="text-align: center;"><i>Authors: <u>van der Merwe NC</u> (Human Genetics, UFS), Buccimazza I (Surgery, UKZN), Rossouw B (Genetic counselling, WITS), Araujo M (Genetic counselling, WITS), Ntaita KS (Human Genetics, UFS), Schoeman M (Genetic counselling, US), Vorster K (Oncology, UFS), Napo K (Oncology, UFS), Kotze MJ (Human Genetics, US), Oosthuizen J (Human Genetics, UFS)</i> <i>Department: Human Genetics, School of Pathology</i></p>
Session 2	Kine 2 08h50	LR-2	<p>SYNADENIUM CUPULARE REGULATES CELLULAR PROTEIN SYNTHESIS IN TRIPLE-NEGATIVE BREAST CANCER IN VITRO</p> <p style="text-align: center;"><i>Authors: Riet K. (Health Science, CUT), Adegoke A. (Pharmacology - UFS, Biochemistry - UI), Mashele S. (Health Science, CUT), <u>Nwabuife JC.</u> (Pharmacology), Sekhoacha MP (Pharmacology)</i> <i>Department: Pharmacology, School of Clinical Medicine</i></p>
Session 2	Kine 2 09h05	LR-3	<p>HAPLOTYPE INFERENCE AND ASSOCIATION ANALYSIS OF HEREDITARY BREAST AND OVARIAN CANCER GENES WITHIN A SOUTH AFRICAN COHORT.</p> <p style="text-align: center;"><i>Authors: <u>Oosthuizen J</u> (Human Genetics, UFS), Kotze MJ (Chemical Pathology, SU), van der Merwe NC (Human Genetics, UFS)</i> <i>Department: Human Genetics, School of Pathology</i></p>
Session 2	Kine 2 09h20	LR-4	<p>ESTABLISHING A DOXORUBICIN-RESISTANT TRIPLE-NEGATIVE BREAST CANCER SPHEROID MODEL</p> <p style="text-align: center;"><i>Authors: <u>V Fokazi</u> (Pharmacology), M Sekhoacha (Pharmacology), B Abrahams (Basic Medical Science), C Gouws (Pharmacien)</i> <i>Department: Pharmacology, School of Clinical Medicine</i></p>
Session 2	Kine 2 09h35	LR-5	<p>ANATOMICAL VARIATIONS DISCOVERED DURING ROUTINE FULL BODY DISSECTION: A YEAR IN REVIEW</p> <p style="text-align: center;"><i>Authors: <u>Maass P</u> (Basic Medical Sciences), Anirudh EE (Basic Medical Sciences), Nkoi MJ</i></p>

Session 2	Kine 2 09h50	LR-6	DEXMEDETOMIDINE AND KETAMINE MYOCARDIAL EFFECTS: AN ISOLATED RAT HEART STUDY <i>Authors: <u>Schuman NA</u> (Anaesthesiology), Lewies A (Cardiothoracic surgery), Turton EW (Anaesthesiology)</i> <i>Department: Anaesthesiology, School of Clinical Medicine</i>
Session 2	Kine 3 08h35	ER-1	THE ROCKY ROAD TO DESK REJECTION RESILIENCE <i>Author: Prof L vd Merwe</i> <i>Department: Office of the Dean, UFS</i>
Session 2	Kine 3 08h50	ER-2	A GUIDELINE TO ADDRESS STUDENTS' LACK OF SELF-REGULATED LEARNING IN THE UNDERGRADUATE TEACHING AND LEARNING ENVIRONMENT <i>Author: Dr R Vorster-de Wet</i> <i>Departments: School of Biomedical Sciences, UFS</i>
Session 2	Kine 3 09h05	ER-3	UNSOLICITED EMAIL PUBLICATION INVITATIONS: SEPARATING THE ACADEMICALLY WORTHWHILE FROM THE WORTHLESS <i>Author: Omololu Aluko</i> <i>Department: School of Biomedical Sciences, UFS</i>
Session 2	Kine 3 09h20	ER-4	EDUCATOR NEEDS REGARDING A SIMULATION DEBRIEFING PROGRAMME: A MISSED OPPORTUNITY FOR INTERPROFESSIONAL PRACTICE AT A SOUTH AFRICAN UNIVERSITY <i>Author: Dr R van Wyk</i> <i>Departments: School of Biomedical Sciences, UFS</i>
Session 2	Kine 3 09h35	ER-5	OCCUPATIONAL THERAPIST'S PERSPECTIVES ON KNOWLEDGE TRANSFER IN CLINICAL PRACTICE IN CENTRAL SOUTH AFRICA <i>Author: Dr A Swanepoel</i> <i>Department: School of Health and Rehabilitation Sciences, UFS</i>
Session 2	Kine 3 09h50	ER-6	AUTHORSHIP PRACTICES AND EXPERIENCES IN THE FACULTY OF HEALTH SCIENCES, UFS <i>Author: Mr FC van Rooyen</i> <i>Department: School of Biomedical Sciences, UFS</i>
Session 4	Kine 1 11h00	CR-7	ASPARTATE AMINOTRANSFERASE PLATELET RATIO INDEX FOR MANAGEMENT DECISIONS IN BILIARY ATRESIA: A RETROSPECTIVE ANALYTICAL REVIEW OF THE ASSOCIATION BETWEEN APRI AND THE DEGREE OF LIVER FIBROSIS. <i>Author: Dr L Brits</i> <i>Department: School of Clinical Medicine, UFS</i>
Session 4	Kine 1 11h15	CR-8	PREDICTIVE ANALYSIS OF EXTUBATION FAILURE IN THE PAEDIATRIC INTENSIVE CARE UNIT IN BLOEMFONTEIN, SOUTH AFRICA. <i>Author: Dr M Buankuna</i> <i>Department: School of Clinical Medicine, UFS</i>
Session 4	Kine 1 11h30	CR-9	OUTCOMES OF HIV-INFECTED AND HIV-EXPOSED UNINFECTED CHILDREN ADMITTED TO TWO PEDIATRIC INTENSIVE CARE UNITS IN THE BLOEMFONTEIN ACADEMIC COMPLEX: A RETROSPECTIVE ANALYTICAL COHORT STUDY. <i>Author: Dr M van der Merwe</i> <i>Department: School of Clinical Medicine, UF</i>
Session 4	Kine 1 11h45	CR-10	EPIDEMIOLOGY OF INJURIES AMONG U18, U19, U21 AND SENIOR ELITE NETBALL PLAYERS. <i>Author: Dr C Sinclair</i> <i>Department: School of Health and Rehabilitation Sciences, UFS</i>
Session 4	Kine 2 11h00	LR-7	THE CHACMA BABOON (PAPIO URSINUS) VON WILLEBRAND FACTOR-ADAMTS13 AXIS - IMPLICATIONS FOR HAEMOSTATIC DISEASE MODELS. <i>Authors: <u>Joubert J</u> (Haematology and Cell Biology), Meiring SM (Haematology and Cell Biology), Janse Van Rensburg WJ (Human Molecular Biology Unit)</i> <i>Department: Haematology and Cell Biology, School of Pathology</i>

Session 4	Kine 2 11h15	LR-8	EVALUATION OF AN ELISA-BASED FACTOR IX ASSAY FOR USE IN SEVERE HAEMOPHILIA B MANAGEMENT. <i>Authors: <u>Janse van Rensburg WJ</u> (Human Molecular Biology Unit), Bester C (Human Molecular Biology Unit), Kloppers JF (Haematology and Cell Biology)</i> <i>Department: Human Molecular Biology Unit, School of Biomedical Sciences</i>
Session 4	Kine 2 11h30	LR-9	THE DISTRIBUTION, PATIENT CHARACTERISTICS, THERAPY AND PATIENT OUTCOME IN CULTURE POSITIVE MOLD AND DIMORPHIC FUNGAL INFECTIONS IN A TERTIARY HOSPITAL IN THE FREE STATE PROVINCE, SOUTH AFRICA. <i>Authors: <u>van der Westhuizen B</u> (Microbiology) Potgieter, S (Internal medicine)</i> <i>Department: Medical Microbiology, School of Pathology</i>
Session 4	Kine 2 11h45	LR-10	INVESTIGATION OF ASSOCIATION BETWEEN BASELINE GUT BACTERIAL ABUNDANCE AND IMMUNE RESPONSE TO ETVAX® VACCINE IN CHILDREN FROM ZAMBIA <i>Authors: <u>Chibesa K</u> (Virology), Cason E (Animal Sciences), Simuyandi M (CIDRZ), Mogotsi MT (Virology), Ogunbayo AE (Virology), Silwamba S (CIDRZ), Luchen CC (CIDRZ), Mwape K (CIDRZ), Chisenga CC (CIDRZ), Chilengi R (CIDRZ), Nyaga MM (Virology)</i> <i>Department: Division of Virology, School of Pathology</i>
Session 4	Kine 3 11h00	ER-7	DISTINCTIVE ATTRIBUTES OF REGISTERED NURSES SERVING IN THE SOUTH AFRICAN MILITARY CONTEXT. <i>Author: Dr C Spies</i> <i>Department: School of Nursing, UFS</i>
Session 4	Kine 3 11h15	ER-8	KNOWLEDGE OF ANATOMY AND ASSESSMENT OF AN INTEGRATED ANATOMY PROGRAM IN ANAESTHESIA REGISTRARS: A COMPARATIVE INTERVENTIONAL STUDY AT A CENTRAL SOUTH AFRICAN UNIVERSITY. <i>Author: DR MM Ramotubei</i> <i>Departments: School of Clinical Medicine, UFS</i>
Session 4	Kine 3 11h30	ER-9	VALUABLE YET JUDGMENTAL: OPTOMETRY STUDENTS' PERCEPTIONS OF THEIR GRAND ROUNDS <i>Authors: Dr E Kempen</i> <i>Department: Office of the Dean, UFS</i>
Session 4	Kine 3 11h45	ER-10	ENGAGED SCHOLARSHIP PARTNERSHIPS FROM AN UNDERGRADUATE PHYSIOTHERAPY PROGRAMME PERSPECTIVE: AN EVALUATIVE CASE STUDY. <i>Author: Mrs CMB Saaiman</i> <i>Department: Office of the Dean, UFS</i>
Session 6	Kine 1 13H45	CR-11	IRON STATUS AND ASSOCIATIONS WITH BIRTH OUTCOMES OF PREGNANT WOMEN IN URBAN BLOEMFONTEIN, SOUTH AFRICA. <i>Author: Prof C Walsh</i> <i>Department: School of Health and Rehabilitation Sciences, UFS</i>
Session 6	Kine 1 14H00	CR-12	PROFILES OF PATIENTS WITH MYELOMENINGOCELE ADMITTED TO THE NEONATAL UNIT AT UNIVERSITAS ACADEMIC HOSPITAL IN BLOEMFONTEIN. <i>Author: Dr DN Pillay</i> <i>Department: School of Clinical Medicine, UFS</i>
Session 6	Kine 1 14h15	CR-13	UNDERNUTRITION IN YOUNG CHILDREN WITH CONGENITAL HEART DISEASE UNDERGOING CARDIAC SURGERY IN A LOW-INCOME ENVIRONMENT. <i>Author: Dr R Smith</i> <i>Department: School of Health and Rehabilitation Sciences, UFS</i>
Session 6	Kine 1 14h30	CR-14	MALNUTRITION AMONG PATIENTS WITH PANCREAS, HEPATOBILIARY AND COLORECTAL CANCER SCHEDULED FOR ABDOMINAL SURGERY IN A SOUTH AFRICAN SETTING. <i>Author: HC Spies</i> <i>Department: School of Health and Rehabilitation Sciences, UFS</i>

Session 6	Kine 1 14h45	CR-15	A RETROSPECTIVE STUDY ON THE OUTCOMES OF HEPATOBLASTOMA IN RELATION TO PROGNOSTIC INDICATORS AT UNIVERSITAS ACADEMIC HOSPITAL BLOEMFONTEIN FROM 2000 TO 2022. <i>Author: Dr H Okafor</i> <i>Department: School of Clinical Medicine, UFS</i>
Session 6	Kine 2 13h45	LR-11	VARIANTS DETECTED IN GENES RESPONSIBLE FOR DNA DOUBLE-STRANDED BREAK REPAIR RECOGNITION INVOLVED IN HEREDITARY BREAST AND OVARIAN CANCER. <i>Authors: <u>Ntaita KS</u> (Human Genetics), Oosthuizen J (Human Genetics), Kotze MJ (Chemical Pathology), van der Merwe NC (Human Genetics),</i> <i>Department: Human Genetics, School of Pathology</i>
Session 6	Kine 2 14h00	LR-12	THE EVALUATION OF X-CHROMOSOME SHORT TANDEM REPEATS (STR) TO RESOLVE INCONCLUSIVE KINSHIP CASES IN CENTRAL SOUTH AFRICA. <i>Authors: <u>Ntombela, NB</u> (Haematology and Cell Biology), de Kock, A (Haematology and Cell Biology), Kloppers, JF (Haematology And Cell Biology)</i> <i>Department: Haematology and Cell Biology, School of Pathology</i>
Session 6	Kine 2 14h14	LR-13	TARGETED SCREENING AND MICROBIOME ANALYSIS FOR VIRAL INFECTIONS IN TWO SPECIES OF HARD TICKS IN THE EASTERN CAPE AND FREE STATE PROVINCES OF SOUTH AFRICA. <i>Authors: <u>Terblanche GI, duP</u> (Virology), Bubuluma R (Virology), Bester PA (Virology), Burt FJ (Virology).</i> <i>Department: Division of Virology, School of Pathology</i>
Session 6	Kine 2 14h30	LR-14	MULTIPLEX TARGETED ENRICHMENT APPROACH TO COMPLETE GENOME SEQUENCING OF SINDBIS VIRUS AND WEST NILE VIRUS LINEAGE 2. <i>Authors: Bubuluma R (Virology), <u>van Jaarsveldt D</u> (Virology), Bester PA (Virology), Burt FJ (Virology)</i> <i>Department: Virology, School of Pathology</i>
Session 6	Kine 2 14h45	LR-15	PREVALENCE OF APOL1 RISK VARIANTS IN HIV-POSITIVE COMPARED TO HIV-NEGATIVE INDIVIDUALS WITH EVIDENCE OF KIDNEY DISEASE. <i>Authors: <u>Notani MD</u> (Human Genetics), Marx G (Genetics), Bisiwe BF (Internal Medicine)</i> <i>Department: Human Genetics, School of Pathology</i>
Session 6	Kine 3 13h45	ER-11	EXPERIENCES OF UNDERGRADUATES REGARDING GROUP WORK AT THE UNIVERSITY OF THE FREE STATE, SOUTH AFRICA <i>Author: Mrs A Carson-Porter</i> <i>Department: School of Health and Rehabilitation Sciences, UFS</i>
Session 6	Kine 3 14h00	ER-12	VALIDATION AND APPRAISAL OF AN E-LEARNING SHORT COURSE ON PATIENT BLOOD MANAGEMENT FOR MEDICAL DOCTORS IN AFRICA. <i>Author: Prof MJ Coetzee</i> <i>Department: School of Pathology, UFS</i>

PRESENTATIONS FRIDAY 23 AUGUST 2024

Session 10	Kine 1 08h35	CR-16	MACHINE LEARNING FOR LEFT VENTRICULAR VOLUME PREDICTION <i>Author: Dr D van Eeden</i> <i>Department: School of Clinical Medicine, UFS</i>
Session 10	Kine 1 08h50	CR-17	APLASTIC ANAEMIA: A DECADE OF EXPERIENCE AT UNIVERSITAS ACADEMIC HOSPITAL, SOUTH AFRICA <i>Author: Dr D Moagi</i> <i>Departments: School of Clinical Medicine, UFS</i>
Session 10	Kine 1 09h05	CR-18	A MISSED OPPORTUNITY: BREAST-CONSERVING SURGERY IN THE FREE STATE <i>Author: Dr BJ Joubert</i> <i>Department: School of Clinical Medicine, UFS</i>
Session 10	Kine 1 09h20	CR-19	WHAT IS THE NECESSITY OF WHOLE LEG LOWER LIMB ULTRASOUND IN THE SETTING OF DEEP VEIN THROMBOSIS? <i>Author: Dr E Bowen</i> <i>Department: School of Pathology, UFS</i>
Session 10	Kine 1 09h35	CR-20	COMPUTED TOMOGRAPHY OF THE THORAX IN TRAUMA: ON OCCULT PNEUMOTHORACES AND WHOLE BODY SCANS <i>Author: Dr P de Hill</i> <i>Department: School of Clinical Medicine, UFS</i>
Session 10	Kine 1 09h50	CR-21	RECURRENT NEPHROBLASTOMA: A 20-YEAR REVIEW OF CASES AT UNIVERSITAS ACADEMIC HOSPITAL, BLOEMFONTEIN, FREE STATE PROVINCE, SOUTH AFRICA <i>Author: Dr Tsakanae</i> <i>Department: School of Clinical Medicine, UFS</i>
Session 10	Kine 1 10h05	CR-22	EARLY CHILDHOOD PRACTITIONERS' AWARENESS OF GROSS MOTOR MILESTONE ACQUISITION AND MOVEMENT GUIDELINES <i>Author: E van der Merwe</i> <i>Department: School of Health and Rehabilitation Sciences, UFS</i>
Session 10	Kine 1 10h20	CR-23	RELATIONSHIP BETWEEN EXPOSURE PARAMETERS AND DETECTABILITY OF DIFFERENT MALIGNANT CERVICAL LYMPHADENOPATHIES IN QUANTITATIVE DUAL-ENERGY COMPUTED TOMOGRAPHY PROCEDURES. <i>Author: Dr Sesethu</i> <i>Department: School of Clinical Medicine, UFS</i>
Session 10	Kine 1 10h35	CR-24	ASSESSMENT OF TASK-BASED MODULATION TRANSFER FUNCTION OF EXPOSURE PARAMETERS FOR DIFFERENTIATING BETWEEN MALIGNANT AND BENIGN PAROTID GLAND TUMOURS IN DUAL-ENERGY COMPUTED TOMOGRAPHY. <i>Author: Dr S Strydom</i> <i>Department: School of Clinical Medicine, UFS</i>
Session 10	Kine 2 08h35	LR-16	SCREENING OF MOSQUITOES COLLECTED IN THE BLOEMFONTEIN AREA OF SOUTH AFRICA FOR ARBOVIRUSES. <i>Authors: <u>Masilo BB</u> (Virology), Sekee, TR (Virology), Burt, FJ (Virology)</i> <i>Department: Division of Virology, School of Pathology</i>
Session 10	Kine 2 08h50	LR-17	CHARACTERIZING ANTI-CCHF B CELL POPULATION DYNAMICS OF SOUTH AFRICAN SURVIVORS BY SINGLE-CELL ANALYSIS. <i>Authors: <u>Malebo K</u> (Virology), Burt F (Virology), Makoah N (Virology)</i> <i>Department: Division of Virology, School of Pathology</i>
Session 12	Kine 1 11h30	CP-1	IRON DEFICIENCY: EXPLORING CLINICIAN PERSPECTIVES THROUGH A CROSS-SECTIONAL SURVEY <i>Author: Dr CL Barrett</i> <i>Department: School of Clinical Medicine, UFS</i>

Session 12	Foyer 11h35	CP-2	APPROPRIATENESS OF TRANSFUSIONS IN ADULT MEDICAL INPATIENTS AT UNIVERSITAS ACADEMIC HOSPITAL <i>Author: Dr CL Barrett</i> <i>Department: School of Clinical Medicine, UFS</i>
Session 12	Foyer 11h40	CP-3	MACRONUTRIENT REQUIREMENTS AND INTAKE IN PROFESSIONAL RUGBY PLAYERS AT ZEBRE RUGBY CLUB, ITALY <i>Author: E du Toit</i> <i>Department: School of Health and Rehabilitation Sciences, UFS</i>
Session 12	Foyer 11h45	CP-4	RENAL EMBRYONAL RHABDOMYOSARCOMA IN AN ADULT: FROM TB TO TUMOUR <i>Author: Dr D Moagi</i> <i>Department: School of Clinical Medicine, UFS</i>
Session 12	Foyer 11h50	CP-5	PERIANAL DISINTEGRATION SYNDROME (PDS) IN CHILDREN WITH HUMAN IMMUNODEFICIENCY VIRUS (HIV) INFECTION: A SCOPING REVIEW <i>Author: L. Brits</i> <i>Department: School of Clinical Medicine, UFS</i>
Session 12	Foyer 11h55	CP-6	ASSESSMENT OF PLANAR GATED BLOOD POOL PROCESSING SOFTWARE USING A SIMULATED PATIENT PHANTOM DATABASE <i>Author: Dr P Hattingh</i> <i>Department: School of Clinical Medicine, UFS</i>
Session 12	Foyer 12h00	CP-7	LIVED EXPERIENCES OF MOTHERS LODGING AT A PUBLIC HOSPITAL IN SOUTH AFRICA <i>Author: MJ Ntuli</i> <i>Department: School of Nursing, UFS</i>
Session 12	Foyer 12h05	CP-8	ASSESSMENT OF SPECT GATED BLOOD POOL PROCESSING SOFTWARE IN CALCULATING EDV, ESV, AND EF VALUES <i>Author: Dr Ntuthuko</i> <i>Department: School of Clinical Medicine, UFS</i>
Session 12	Foyer 12H10	CP-9	Disorder of Attention, Motor Control and Perception in Grade 1 Boys and Girls. <i>Author: Dr Monique de Milander</i> <i>Department: School of Health and Rehabilitation Sciences</i>
Session 12	Foyer 11h30	LP-1	THE CLONING OF MONOCLONAL ANTIBODIES ISOLATED FROM THE B-CELLS OF A CONVALESCENT SARS-COV-2 PATIENT. <i>Authors: Botha JD (Virology), Makoah N (Virology), Burt FJ (Virology)</i> <i>Department: Division of Virology, School of Pathology</i>
Session 12	Foyer 11h35	LP-2	ARTERIAL VARIATIONS DISCOVERED DURING ROUTINE FULL BODY DISSECTION: A YEAR IN REVIEW. <i>Authors: Anirudh EE (Basic Medical Sciences), Nkoi MJ (Basic Medical Sciences), Maass P (Basic Medical Sciences)</i> <i>Department: Basic Medical Sciences, School of Biomedical Sciences</i>
Session 12	Foyer 11h40	LP-3	VENOUS VARIATIONS DISCOVERED DURING ROUTINE FULL BODY DISSECTION: A YEAR IN REVIEW. <i>Authors: Nkoi MJ (Basic Medical Sciences), Maass P (Basic Medical Sciences), Anirudh EE (Basic Medical Sciences)</i> <i>Department: Basic Medical Sciences, School of Biomedical Sciences</i>
Session 12	Foyer 11h45	LP-4	DETECTION AND IDENTIFICATION OF MULTIPLE ARBOVIRUSES IN MOSQUITO POPULATIONS IN KWAZULU-NATAL, SOUTH AFRICA USING RT-PCR AND RAPID OXFORD NANOPORE MINION SEQUENCING. <i>Authors: Masoto NZ (Pathogen Research Laboratory, Virology), Bester PA (National Health Laboratory Service, Virology), Snyman LP (Durban Natural Science Museum, Entomology. Invertebrate Zoology, Royal Alberta Museum), Govender N (Durban Natural Science Museum, Entomology), van Jaarsveldt D (Pathogen Research Laboratory, Virology, National Health Laboratory Service), Burt FJ (Pathogen Research Laboratory, Virology, National Health Laboratory Service)</i> <i>Department: Division of Virology, School of Pathology</i>

Session 12	Foyer 11h50	LP-5	<p>CLONING, EXPRESSION AND CHARACTERIZATION OF HUMAN MONOCLONAL ANTIBODIES TARGETING SARS-COV-2 S-GLYCOPROTEIN.</p> <p><i>Authors: Mothudi, K (Virology), Burt, FJ (Virology), Makoah, NA (Virology)</i></p> <p><i>Department: Division of Virology, School of Pathology</i></p>
Session 12	Foyer 11h55	LP-6	<p>PSEUDOMONOCYTOSIS MASKING THE MONOCYTOPENIA OF HAIRY CELL LEUKAEMIA ON A SYSMEX XN HAEMATOLOGY ANALYSER.</p> <p><i>Authors: Kennedy SJ (Haematology and Cell Biology), Van Marle AC (Haematology and Cell Biology)</i></p> <p><i>Department: Haematology and Cell Biology, School of Pathology</i></p>
Session 12	Foyer 12h00	LP-7	<p>A CASE SERIES: THE DISTRIBUTION, PATIENT CHARACTERISTICS, THERAPY AND PATIENT OUTCOME IN CULTURE POSITIVE MOLD AND DIMORPHIC FUNGAL INFECTIONS IN HIV POSITIVE PATIENTS IN A TERTIARY HOSPITAL IN THE FREE STATE PROVINCE, SOUTH AFRICA.</p> <p><i>Authors: van der Westhuizen, B (Microbiology), Potgieter, S (Internal medicine)</i></p> <p><i>Department: Medical Microbiology, School of Pathology</i></p>
Session 12	Foyer 12h05	LP-8	<p>THE IMPACT OF COVID-19 ON CERVICAL CYTOLOGY SERVICES IN THE PUBLIC SECTOR OF THE FREE STATE PROVINCE, SOUTH AFRICA.</p> <p><i>Authors: le Grange DL (Anatomical Pathology), Goedhals J (Anatomical Pathology), van Rooyen C (Biostatistics)</i></p> <p><i>Department: Anatomical Pathology, School of Pathology</i></p>
Session 12	Foyer 12h10	LP-9	<p>A CASE SERIES: THE DISTRIBUTION, PATIENT CHARACTERISTICS, THERAPY AND PATIENT OUTCOME IN CULTURE POSITIVE MOLD AND DIMORPHIC FUNGAL INFECTIONS IN PATIENTS WITH HEMATOLOGICAL CONDITIONS IN A TERTIARY HOSPITAL IN THE FREE STATE PROVINCE, SOUTH AFRICA.</p> <p><i>Authors: van der Westhuizen, B (Microbiology), Potgieter, S (Internal medicine)</i></p> <p><i>Department: Medical Microbiology, School of Pathology</i></p>
Session 12	Foyer 11h30	EP-1	<p>PRESENTING POWERFUL POSTERS</p> <p><i>Author: Prof H Brits</i></p> <p><i>Department: School of Clinical Medicine, UFS</i></p>
Session 12	Foyer 11h35	EP-2	<p>THE EXPERIENCE AND PERCEPTIONS OF ANAESTHESIOLOGY REGISTRARS REGARDING THE OPERATING THEATRE LEARNING ENVIRONMENT AT THE UNIVERSITY OF THE FREE STATE.</p> <p><i>Author: Dr Piet-Theron Jansen</i></p> <p><i>Department: School of Clinical Medicine, UFS</i></p>



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