# 1. Education

2023-2024	Postgraduate Diploma in the field of Higher Education, University of the		
	Witwatersrand (Part-time)		
2020	Ph.D (Part-time) ( <i>Thesis</i> ), University of the Witwatersrand		
	Thesis title: Platelet-tumour cell interaction <i>in vitro</i> : the effects of		
	Anastrozole and anti-platelet therapy		
	Supervisor/s: Dr. Tanya Augustine and Associate Prof. Raquel Duarte		
2014	MSc. Med (Full-time) (Dissertation), University of the Witwatersrand		
	Dissertation title: The in vitro effects of HAART on the expression of MUC1		
	and NFkB1 in a cervical cancer cell line, HCS-2		
	Supervisor: Associate Prof. Margot Hosie		
2011	BHSc. Honours (Medical Cell Biology), School of Anatomical Science,		
	University of the Witwatersrand		
2010	Bachelor of Science, University of the Witwatersrand		
2007	National Senior Certificate, J.E. Malepe Secondary School, Tsakane, GP		

# 2. Employment history

<b>2015</b> (to date)	Current position: Lecturer (Full-time), School of Anatomical Sciences		
	(Histology and Embryology division), University of the Witwatersrand		
<b>2015</b> (Jan-June)	Histology tutor and ADP facilitator, Office of Student Support, Faculty of Health		
	Sciences, University of the Witwatersrand		
2014	Call center agent (07-24 Jan), Student Enrollment Centre, University of the		
	Witwatersrand		
2013	Call center agent (07 Jan-05 Feb), Student Enrollment Centre, University of the		
	Witwatersrand		
	Histology tutor and ADP facilitator, Office of Student Support, Faculty of Health		
	Sciences, University of the Witwatersrand		
<b>2011-</b> (until June 2015)	Teaching assistant (Part-time), School of Anatomical Science (Histology and		
	Embryology division), University of the Witwatersrand		

## 3. Awards

• 2015 Golden Key International Honour Society

■ 2014 NRF Innovation doctoral scholarship

■ 2013 DAAD-NRF scholarship

Postgraduate Merit award

• 2012 Postgraduate Merit award

University council postgraduate scholarship

## 4. Teaching

## 5.1 <u>Undergraduate courses</u>

Course Title Y	~ Class	Year/s	Level	Summary of duties
Course Code	size			
Anatomy for Medical and Biomedical students II (ANAT2020A)	350-450	2015 to date	Second year	Teaching of Histology, setting and moderation of test and exams questions, facilitating practical sessions, invigilation during assessments and contributing to course development.
Anatomy for Dental Students (ANAT2030A)	40-60	2015 to date	First/ second year	Teaching of Histology, setting and moderation of test and exams questions, facilitating practical sessions, invigilation during assessments and contributing to course development.
Anatomy for Physiotherapy and Occupational Therapy Students (ANAT2033A)	60-80	2015 – to date	Second year	Teaching of Histology, setting and moderation of test and exams questions, facilitating practical sessions, invigilation during assessments and contributing to course development.
Anatomy for Pharmacy and Nursing Students (ANAT2031A, ANAT2005A)	40-60	2015 – to date	First/ second year	Teaching of Histology, setting and moderation of test and exams questions, facilitating practical sessions, invigilation during assessments and contributing to course development.

Human and Comparative Biology II (ANAT2021A)	30-65	2018 – to date	Second year	Teaching of Histology and cell biology, setting and moderation of test and exams questions, designing and facilitating practical sessions, invigilation during assessments and contributing to course development.
Medical Cell Biology III (ANAT3011A)	20-50	2015 – to date	Third year	Teaching of cell biology, laboratory skills, and research methods, setting and moderation of test and exams questions, designing and facilitating practical sessions, invigilation during assessments, moderation of project proposal marks and contributing to course development.

## 5.2 Postgraduate teaching

<b>Course Title</b>	~ Class	Year/s	Level	Content summary	
Y Course	size				
Code					
Medical Cell Biology Hons (ANAT4015A)		2015 to date	Honours	Teaching of cell biology and research methods. Setting of test and exams questions.  Facilitating discussion theme sessions on selected cell biology topics. Supervising students in preparing a literature review on a selected topic. Moderation of report marks for selected assessments. Contributing to course development.	

## 5.3 Postgraduate supervision

	MSc.Med Candidates	(by dissertation) N= 6		
2024	Mr. Monde Lwane 2363003 (Black, ZA)	Macrophage mediation of tumour heterogeneity in HPV+ cervical cancer	Dr KR. Xulu Prof TN. Augustine	Registered (expected completion: 2026)
2024	Ms. Mpho Mothupi 2304394 (Black, ZA)	Investigating the effects of stemness on metabolic rewiring in breast cancer"	Dr KR. Xulu Ms L. Khambule	Registered (expected completion: 2026)
2023	Ms. Nastassia Altriche 1839373 (White, ZA)	Macrophage mediation of stemness in hormone-dependent breast cancer cells	Dr KR. Xulu Prof TN. Augustine	Registered

		under combined tamoxifen and cannabidiol treatment		(expected completion: 2024)
2022	Ms. Thabang Mackade 1692568 (Black, ZA)	Characterising the molecular and functional phenotypes of RAW264.7 macrophages under Cannabidiol (CBD) and Tamoxifen treatment	Dr KR. Xulu Dr S. Buthelezi Prof TN. Augustine	Registered (expected completion: 2024)
2021	Ms. Simone Gallant 2516492 (Coloured, ZA)	Characterizing breast cancer heterogeneity in vitro and the impact of hormone therapy on tumour heterogeneity in luminal A breast cancer cells	Dr KR. Xulu Prof TN. Augustine	Registered (expected completion: 2024)
2020	Ms. Mahlatse Mahasha 1411488 (Black, ZA)	Impact of cannabidiol on Tamoxifen-mediated breast cancer cell survival and cell death: 2D and 3D models	Dr KR. Xulu Prof TN. Augustine	Current student (expected completion: 2024)
	BHSc.Hor	ns (or BSc.Hons) (Research comp	onent 50% of degree). N=20	
2024	Ms Kgabo Dibete 2436210 (Black, ZA)	Tumour associated macrophages: profiling the expression of M1 and M2 macrophage markers following polarization	Dr KR. Xulu (co-supervisor) Ms. N. Altriche (co-supervisor) Prof TN. Augustine (Primary supervisor)	Current student
2024	Ms. Khanyile Madubanya 2425620 (Black, ZA)	An in vitro study analysing variations in gene and protein expression of stemness markers: CD44, CD24 and CD133, in HPV positive cervical cancer cell lines.	Dr KR. Xulu (Primary supervisor) Prof TN. Augustine (co-supervisor)	Current student
2023	Ms Khethukuthula Buthelezi 566545 (Black, ZA)	Cytotoxic effects of doxorubicin and paclitaxel at different concentrations and different exposure durations	Dr KR. Xulu (Primary supervisor) Ms. L. Marakalla (co-supervisor) Prof TN. Augustine (co-supervisor)	Graduated 2023

		on a cervical cancer cell line C33A in vitro		
2023	Mr Boitumelo Kgope 2340725 (Black, ZA)	Investigating the role of Cannabidiol and Tamoxifen co-treatment on breast cancer autophagy	Dr KR. Xulu (co-supervisor) Ms. N. Altriche (co-supervisor) Prof TN. Augustine (Primary supervisor)	Graduated 2023
2022	Ms. Nastassia Altriche 1839373 (White, ZA)	The effects of combined tamoxifen and cannabidiol on cytoskeletal changes and autophagy in hormonedependent breast cancer cells	Dr KR. Xulu (co-supervisor) Prof TN. Augustine (primary supervisor)	Graduated 2022
	Ms. Lehlogonolo Marakalla 1473757 (Black, ZA)	Induced cytotoxicity by paclitaxel and doxorubicin in Hep-2C cervical cancer cells in vitro	Dr KR. Xulu (primary supervisor) Prof TN. Augustine (co-supervisor)	Graduated 2022
2021	Ms. Sandhya Ramcharrun 1835275 (Indian, ZA)	The Effects of CBD and Tamoxifen on Hormone Dependent Breast Cancer	Dr KR. Xulu (co-supervisor), Dr TN. Augustine (primary supervisor), Dr K. Pather (co- supervisor)	Graduated 2021
	Ms. Thabang Mackade 1692568 (Black, ZA)	Understanding the Drug-Drug Interactions of Cannabidiol (CBD) and Tamoxifen on MCF7 Breast Cancer Cells.	Dr KR. Xulu (co-supervisor), Dr TN. Augustine (primary supervisor), Dr K. Pather (co- supervisor)	Graduated 2021
	Ms. Keneilwe Phehla 1384768 (Black, ZA)	Investigating the Effect of Cannabidiol (CBD) on Hormone Therapy in Breast Cancer	Dr KR. Xulu (co-supervisor), Dr TN. Augustine (primary supervisor), Dr K. Pather (co- supervisor)	Graduated 2021
	Mr. Litabe Litabe, 1370766 (Black, ZA)	TGF beta 1 secretion and the development of the chick pancreas.	Dr K. Xulu (co-supervisor), Emeritus Prof. B. Kramer (Primary supervisor)	Graduated 2021
	Mr. Kgololosego Ngake 1768748 (Black, ZA)	The effects of Anastrozole and anti-platelet therapy on breast cancer associated thrombosis	Mrs. KR. Xulu (co-supervisor), Dr TN. Augustine (primary supervisor)	Graduated 2020

	Ms. Jordan Muller 1739331 (White, ZA)	The effects of Anastrozole and anti-platelet therapy on breast cancer outcome	Mrs. KR. Xulu (co-supervisor), Dr TN. Augustine (primary supervisor)	Graduated 2020
2019	Ms. Mahlatse Mahasha 1411488 (Black, ZA)	Differential expression of CD62p and CD63 platelet activation markers in collageninduced and thrombin-induced platelet activation	Mrs. KR. Xulu (co-supervisor), Dr TN. Augustine (primary supervisor), Ms. K. Pather (co- supervisor)	Graduated 2019
	Ms. Nelisiwe Makua 1464653 (Black, ZA)	Study of the effects (of) adenosine-5'-diphosphate on the levels of expression of CD62p and CD63 in lysed whole blood	Mrs. KR. Xulu (co-supervisor), Dr TN. Augustine (primary supervisor), Ms. K. Pather (co- supervisor)	Graduated 2019
2018	Mr. Kiveshen Pillay 1043167 (Indian, ZA)	The effects of Atopaxar and anastrozole therapy on autophagy in breast cancer cells	Mrs. KR. Xulu (co-supervisor), Dr TN. Augustine (primary supervisor)	Graduated 2018
	Ms. Derushka Arnachellen 811551 (Indian, ZA)	The effects of aspirin and clopidogrel cocktail, in combination with anastrozole on autophagy in breast cancer cells.	Mrs. KR. Xulu (co-supervisor), Dr TN. Augustine (primary supervisor)	Graduated 2018
2017	Ms. Refilwe Mathibe 815210 (Black, ZA)	Aspirin treatment fails to prevent breast cancer cell-induced platelet activation.	Mrs. KR. Xulu (co-supervisor), Dr TN. Augustine (primary supervisor), Ms. K. Pather (co- supervisor)	Graduated 2017
2016	Ms. Bonita Pingo do Nascimento 679138 (White, ZA)	The effects of cannabidiol on cadherins in breast cancer cells	Mrs. KR. Xulu (co-supervisor), Dr TN. Augustine (primary supervisor), Ms. K. Pather (co- supervisor)	Graduated 2016
	Ms. Thanusha Pillay 732728 (Indian, ZA)	The effects of Tamoxifen on NK cell subsets	Mrs. KR. Xulu (co-supervisor), Dr TN. Augustine (primary supervisor), Ms. K. Pather (co- supervisor)	Graduated 2016
2015	Ms. Jennifer Mokwane 607932 (Black, ZA)	Analysis of the effects of Cannabidiol (CBD), on the	Mrs. KR. Xulu (co-supervisor), Dr TN. Augustine (primary supervisor)	Graduated 2015

	proliferation of breast cancer	
	cells	

## 5. Research

My research interest is broadly in the field of tumour biology. Cancer is the most diagnosed disease worldwide and the leading cause of mortality; therefore, it is important to understand the constituents of tumours and the underlying mechanisms of tumour processes. In addition, studies have highlighted the role of the tumour microenvironment (TME) in driving tumour processes thus the role of the TME is increasingly becoming important to study further and forms part of my core interest in tumour biology. My doctoral research investigated the reciprocal interactions between thrombosis and breast cancer with antiplatelet therapy, the findings of which highlighted the influence of sub-phenotypic differences between luminal A breast cancer cell response (among other important findings). Cancer is known to be a heterogenous disease and this could account for the varied responses seen clinically in tumour patients with regards to disease progression and response to therapy. In an attempt to better understand heterogeneity in cancer and the associated downstream effects which may include promoting resistance to therapy and tumour recurrence, my current research focus is in characterising the intrinsic heterogeneity in tumour by mainly focusing on breast and cervical cancer, the most commonly diagnosed tumours in females. This is achieved through applying a multidisciplinary approach which involves isolating sub-populations which display features of stemness from cell lines and then further investigating their response to commonly used cancer therapies including; hormonal and chemotherapy, and novel agents not currently used clinically (e.g. CBD). This knowledge is important because it will contribute to better understanding the complexity of this diseases and will ultimately contribute in better clinical management strategies for this disease.

## **6.1** Conference presentations

## Poster presentations (presenter underlined)

#### 2022

• Faculty of Health Science Research day and Postgraduate Expo, Virtual meeting, University of the Witwatersrand, Johannesburg. Characterizing intratumoural heterogeneity in luminal-A breast cancer cell lines: Optimisation study. Sonto Dube, Tanya N. Augustine, Kutlwano R. Xulu.

#### 2020

■ Faculty of Health Science Research day and Postgraduate Expo, Virtual meeting, University of the Witwatersrand, Johannesburg. Differential expression of CD62p and CD63 platelet activation markers in collagen-induced and thrombin-induced platelet activation. Mahasha, M.F, Xulu, K.R, Pather, K. Augustine, T.N

#### 2017

• 8<sup>th</sup> Cross-Faculty Postgraduate Symposium, University of the Witwatersrand, Cell death or cell survival? A surface morphology study of dose-dependent effects of anastrosole and antiplatelet therapy on breast cancer cell lines. **K. Xulu**, T. Augustine and R. Duarte.

#### 2013

• 51<sup>st</sup> Annual Congress of the Microscopy Society of Southern Africa (MSSA), Pretoria. An in vitro study of the effects of antiretroviral drugs on breast cancer. **K. Thabethe** and M. Hosie.

## Oral presentations (presenter underlined)

#### 2023

- 50<sup>th</sup> Surgical Research Society of Southern Africa (SRSSA). University of Kwa Zulu Natal. Intratumoural heterogeneity in breast cancer: hormone therapy-mediated effects in a breast cancer cell line. **Kutlwano R. Xulu**, Simone Gallant, Tanya N. Augustine.
- XXVIII International Symposium on Morphological Sciences (ISMS). Cape Town South Africa. Cytotoxicity of chemotherapy drugs and characterising tumour heterogeneity in cervical cancer. **K. R. Xulu**, L. Marakalla, T. N. Augustine.

#### 2022

- Faculty of Health Science Research day and Postgraduate Expo, University of the Witwatersrand, Johannesburg. Changes in the expression of diagnostic markers in hormone-dependent breast cancer subpopulations following anastrozole and tamoxifen treatment. Simone Gallant, Tanya N. Augustine, Kutlwano R. Xulu.
- Faculty of Health Science Research day and Postgraduate Expo, University of the Witwatersrand, Johannesburg. Developing a 3-dimensional in vitro system for investigating macrophage-mediated tumour interactions. Tanya N. Augustine, <a href="https://doi.org/10.1007/jhannesburg-nediated-tumour-interactions">This is a superiorginal of the Witwatersrand, Johannesburg-nediated tumour interactions. Tanya N. Augustine, Thabang Mackade, Kutlwano Xulu, Sindisiwe Buthelezi.</a>
- Faculty of Health Science Research day and Postgraduate Expo, University of the Witwatersrand, Johannesburg. Impact of Cannabidiol and Tamoxifen treatment on cell death and cell survival in breast cancer. Mahlatse Mahasha, Tanya N. Augustine, Kutlwano Xulu.
- 49<sup>th</sup> Surgical Research Society of Southern Africa (SRSSA). Sefako Makgatho Health Sciences University. Developing a 3-dimensional *in vitro* system for investigating macrophage-mediated tumour interactions. Tanya N. Augustine, <u>Thabang Mackade</u>, **Kutlwano Xulu**, Sindisiwe Buthelezi.

- 49<sup>th</sup> Surgical Research Society of Southern Africa (SRSSA). Sefako Makgatho Health Sciences University. Characterising breast tumour heterogeneity in vitro. <u>Kutlwano R. Xulu</u>, Simone Gallant, Sonto Dube, Linda Ndhlovu, Tanya N. Augustine.
- 49<sup>th</sup> Surgical Research Society of Southern Africa (SRSSA). Sefako Makgatho Health Sciences University. Cannabidiol enhances the effects of Tamoxifen in breast cancer cell lines. **Kutlwano R. Xulu**, Mahlatse F. Mahasha, Tanya N. Augustine.
- 49<sup>th</sup> Surgical Research Society of Southern Africa (SRSSA). Sefako Makgatho Health Sciences University. Mimicking tumour circulating cells in vitro alterations in the plasma proteome & tumour cell phenotype with Tamoxifen treatment. Tanya N. Augustine, Sindisiwe Buthelezi, Kyrtania Pather, <u>Kutlwano R. Xulu</u>, Stoyan Stoychev.

#### 2021

- 48<sup>th</sup> Surgical Research Society of Southern Africa (SRSSA), Virtual meeting. Stellenbosch University. Antiplatelet therapy combined with anastrozole induces features of partial-EMT in breast cancer cells in a model of hypercoagulation. **K.Xulu** and T. Augustine.
- 12<sup>th</sup> Cross-Faculty Post Graduate Symposium, Virtual meeting. Impact of increasing Cannabidiol concentrations with Tamoxifen in MCF7 breast cancer: Cell viability and cell migration. Mahasha, M.F, Xulu,K.R, Pather,K. Augustine,T.N.

#### 2020

• Faculty of Health Science Research day and Postgraduate Expo, Virtual meeting, University of the Witwatersrand, Johannesburg. The effects of hormone and antiplatelet therapy on breast cancer progression. **K. Xulu**, R. Duarte and T. Augustine.

#### 2019

■ 19<sup>th</sup> International Federation of Associations of Anatomists (IFAA) Congress, London, United Kingdom, Combined endocrine and anti-platelet therapy fails to reduce platelet activation in breast cancer. **K. Xulu**, R. Duarte and T. Augustine.

#### 2018

■ 46<sup>th</sup> Annual conference of the Anatomical Society of Southern Africa (ASSA), Johannesburg. Cell death in breast cancer cells following treatment with hormone therapy and antiplatelet therapy at different concentrations. **K. Xulu**, R. Duarte and T. Augustine.

#### 2017

- 8<sup>th</sup> Cross-Faculty Postgraduate Symposium, University of the Witwatersrand, Cell death or cell survival? A surface morphology study of dose-dependent effects of anastrosole and antiplatelet therapy on breast cancer cell lines. **K. Xulu**, T. Augustine and R. Duarte. (Flash talk)
- 45<sup>th</sup> Annual conference of the Anatomical Society of Southern Africa (ASSA), Cape Town.
   A dose-dependent study of anastrosole and anti-platelet therapy on breast cancer cell lines.
   K. Xulu, T. Augustine and R. Duarte.

## **6.2** Publications (ISI accredited journals)

#### Published articles

1. Augustine, T.N., Buthelezi, S., Pather, K. **Xulu K.**, Stoychev S. Secretomics reveals hormone-therapy of breast cancer may induce survival by facilitating hypercoagulation and immunomodulation in vitro. Sci Rep 14, 1486 (2024). <a href="https://doi.org/10.1038/s41598-023-49755-1">https://doi.org/10.1038/s41598-023-49755-1</a>.

- 2. **Xulu KR**, Nweke EE and Augustine TN. (2023), Delineating intra-tumoral heterogeneity and tumor evolution in breast cancer using precision-based approaches. Front. Genet. 14:1087432. doi: 10.3389/fgene.2023.1087432. (Impact factor: 4.772)
- 3. Derushka Arnachellen, **Kutlwano R Xulu**, Kiveshen Pillay, Tanya N. Augustine. (2023) Anastrozole combined with Aspirin and Clopidogrel cocktail facilitates evasion of cytotoxicity in breast tumour cells. Microscopy and microanalysis. 29: 1205–1219. https://doi.org/10.1093/micmic/ozad032. (Impact factor: 4.099)
- 4. **Kutlwano Rekgopetswe Xulu**, Tanya Nadine Augustine. (2022). Targeting platelet activation pathways to limit breast tumour progression: current state of affairs. Pharmaceuticals 5(12):1532. DOI:10.3390/ph15121532. (Impact factor: 5.215).
- 5. **Xulu K** and Augustine., TN. (2021). Antiplatelet therapy combined with Anastrozole induces features of partial-EMT in breast cancer cells and fails to mitigate breast-cancer induced hypercoagulation. International Journal of Molecular Sciences, 22: 4152. https://doi.org/10.3390/ijms22084153. (Impact factor: 5.923).
- 6. **Xulu K.,** Duarte, R., Augustine., TN. (2020). Combined Anastrozole and Antiplatelet therapy treatment differentially promotes breast cancer cell survival. *Microscopy and Microanalysis*. doi: 10.1017/s1431927620001324. (Impact factor: 3.414).
- 7. T. N. Augustine, K. Pather, D. Mak, D. Klonaros, **K. Xulu**, T. Dix-Peek, R. Duarte & W. J. van der Spuy. (2020). Ex.vivo interaction between blood components and hormone-dependent breast cancer cells induces alterations associated with epithelial mesenchymal transition and thrombosis, *Ultrastructural Pathology*, 44:3, 262-272. DOI:10.1080/01913123.2020.1749197. (Impact factor: 1.023).
- 8. **Thabethe K.,** Adefolaju G., Hosie M. (2015). The effects of HAART on the expression of MUC1 and P65 in a cervical cancer cell line, HCS-2. *Biomedicine and Pharmacotherapy*, 71:221-232. (2015). doi: 10.1016/j.biopha.2015.03.001. (Impact factor: 4.545)

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## 6.3 Research Funding

2023	University of the Witwatersrand, Female Academic Leadership Fellowship (R169630)		
2022	University of the Witwatersrand, Minor research equipment funding (R92 765)		
	(Co-applicant: Prof TN. Augustine)		
	Erasmus Staff Mobility (2740 Euros), Prof P. Manger Principal Grant-holder		
2021	University of the Witwatersrand, Minor research equipment funding (R93 442. 65) (Co-		
	applicant: Prof TN. Augustine & Dr K. Pather)		
2020	National Research Foundation Thuthuka funding, 2020-2023 (R495 000)		
	University of the Witwatersrand, Early Career Academic Development (R25 000)		
	University of the Witwatersrand, Minor research equipment funding (R257 819.60)		
2018	University of the Witwatersrand, Faculty Research Grant (R8000)		
2017	University of the Witwatersrand, Transformation Office, Enabling grant (R108 480)		
	University of the Witwatersrand, Faculty Research Grant (R10 000)		
2016	University of the Witwatersrand, Faculty Research Grant (R12 000)		

#### 6. Administrative duties

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/.I	Course coordination	(School of Anatomical Sciences)

2021-to date Medical Cell Biology (ANAT3011A)

2018-2020 Human and Comparative Biology II (ANAT2021A)

### 7.2 Committee membership (School of Anatomical Sciences)

2022- to date
 2020-to date
 Teaching and learning committee
 Screening and selections committee

■ 2019 100 years celebrations planning committee

2018 to date
 Staff and student liaison committee

2015 to date Health and Safety committee

### 7. Service to the University/Community

### 8.1 Committee membership (Faculty)

2021 to date
 2021 to date
 Teaching and learning Committee, Faculty of Science
 Third Year Working Party, Faculty of Health Sciences

2021 to date
 Bachelor of Health Science Committee, Faculty of Health Sciences
 2020
 Research Day planning committee, Faculty of Health Sciences

#### 8.2 Examiner for Dissertations

2024 MSc Dissertation (J. Khan), Stellenbosch University (External)

2023 MSc Dissertation (M Nchodu), University of the Witwatersrand (Internal)

MSc Dissertation (J.L Falkov), University of the Witwatersrand (Internal)

MSc Dissertation (P. Nziyane), Sefako Makgatho Health Sciences

#### University (External)

2022 MSc Dissertation (Z.R Ngcauzele), Rhodes University (External)

#### 8.3 Assessor

2022 Phd proposals, Faculty of Health Sciences
 2020 to date MSc proposals (Internal and external)

#### 8.4 Mentoring

2022 to date Mosibudi Rampya (MSc candidate). Department of pharmacy

pharmacology, University of the Witwatersrand

2023 to date
 Matshidiso Mtshali (MSc candidate). Department of anatomy,

University of Pretoria

#### 8.5 Community

2015 to 2022 Every Nation Rosebank Church Kids ministry volunteer

2015 to date Transformation Vrededorp volunteer
 2014 to 2016 Heavens Ultimate Gift (HUG) volunteer

-Position held: Head of Humanitarian and welfare department

#### 8. Membership of Professional Bodies

- Member of the Anatomical Society of Southern Africa (ASSA) (2017- to date)
   -Council member (2022, 2023)
- Member of the Surgical Research Society of Southern Africa (SRSSA) (2022, 2023)

## 9. Personal development

#### Courses attended (2015-2023)

- Leading and managing people short course, offered by Wits Business School. Dates: 02-06 October 2023.
- Faculty of Health Sciences, Examiners workshop. Date: 08 June 2022.
- Postgraduate Supervision. Date: 11 November 2021, offered by the Centre for Teaching, Learning and Development (CLTD).
- Curriculum design and development. Date: 23 July 2020, offered by the Centre for Teaching, Learning and Development (CLTD).
- Students in distress. Date: 24 January 2019, offered by the Centre for Teaching, Learning and Development (CLTD).
- How to prepare and give a good lecture. Date: 19 January 2017, offered by the Centre for Health Science Education (Wits).
- Planning your academic career. Date: 24 February 2017, offered by the Centre for Teaching, Learning and Development (CLTD).
- Cell analysis webex. Hosted by Thermofischer at the School of Anatomical Sciences. Date:
   14 March 2017
- Scientific and grant writing workshop, Health Science Research office, (26,27,29 June 2017).
- How to give an effective powerpoint presentation held on the 20 January 2016.
- Postgraduate supervision held on the 15th of February 2016.
- BD Horizon seminar: new insight for multicolour panel design held on the 1st of March 2016.
- BD Horizon workshop on how to optimize voltage settings, compensation and application settings on FACS Diva software held on the 25th of April 2016.
- Faculty of Health Science teaching and learning symposium held on the 02nd of September 2015.
- Faculty of Health Science teaching and learning symposium held on the 02nd of September 2015.

### 10. Hobbies

- Gardening
- Birding
- Cooking
- Creative Arts

### 11. References

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