



ZENANDE PALI

DOCTORAL STUDENT | DEPARTMENT OF PHARMACY | NANOMEDICINE
PLATFORM | HEALTH SCIENCES | NELSON MANDELA UNIVERSITY



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Objectives

I am a motivated PhD candidate and researcher, in Health Sciences (Pharmacy and Nanomedicine) at Nelson Mandela University, South Africa. My research focuses on the synthesis and characterization of green gold nanoparticles for breast cancer treatment.

I aim to engage with Shaw Laureates, distinguished scientists, and peers from all over the world at the Hong Kong Laureate Forum. I am also looking forward to sharing my research findings at the forum while fostering interdisciplinary collaboration and scientific dialogue.

Personal Details

Full name : Zenande Pali
Date of Birth : 17 November 1996
Passport No : A10790460
Gender : Female
Nationality : South African

Education and Qualifications

- **BSc Medical Science**
Walter Sisulu University 2017
- **BSc (Honours) Physiology**
Walter Sisulu University 2018
- **MSc Nanoscience (*Cum laude*)**
Nelson Mandela University 2022
- **PhD (Pharmacy and Nanomedicine)**
Nelson Mandela University In progress

Work experience

- **Academic Assistant**
School of Medicine, Nelson Mandela University 01 August 2023 - Present
- **Student Assistant**
Sustainable Research and Innovation Event 19 June 2023 - 22 June 2023
- **MSc Nanoscience Practical Assistant**
DSI-Mandela Nanomedicine Platform. 24 July 2023
- **Laboratory intern**
Physiology Department, Nelson Mandela University April 2019 - March 2020

Specialization/Instrumentation and Additional skills

Specialization	Instrumentation	Additional Skills
<ul style="list-style-type: none">• Cancer research• Nanoscience• Medical Physiology• Animal models• Cell culture• Green synthesis• Nanoparticle synthesis and characterization techniques• Cell embedding for TEM analysis	<ul style="list-style-type: none">• Dynamic light scattering• Freeze-dryer• Centrifuge• Autoclave• pH meter• Ultraviolet-visible spectroscopy• Nanodrop• Fluorescence plate reader• Fluorescence microscopy• Fourier-transform infrared spectroscopy	<ul style="list-style-type: none">• Basic laboratory skills• Scientific research and writing• Presentation skills• Data capturing and analysis• Organizational skills• Computer literacy• Leadership skills• Excellent communication skills

Conference attendance

- **Physiology Society of Southern Africa (PSSA) Conference 2018, South Africa**
Presentation: Acute effects of energy drink consumption on blood pressure and endothelial function among male and female students at Walter Sisulu University
- **NanoAfrica2022 International Conference, South Africa**
Presentation: *In-vitro* evaluation of *Vernonia amygdalina* gold nanoparticles to stimulate apoptosis in breast cancer cell lines
- **BRICS Young Scientist Forum 2023, South Africa**
Presentation: Nanotechnology and Nanomedicine to improve health and quality of life: Synthesis of green gold nanoparticles breast cancer therapeutics

➤ **BIO Africa Convention 2023, South Africa**

Student Sponsorship

➤ **International Conference on Advanced Nanomaterials and Nanotechnology 2024, Italy**

The evaluation of the anticancer properties of medicinal plants and green synthesized gold nanoparticles for breast cancer treatment

Awards and Certificates

➤ Eskom Expo for Young Scientist 2023 Judge

➤ Best Poster Award at the International Conference on Advanced Nanomaterials and Nanotechnology, Italy

➤ Second Place for Best Poster at Nelson Mandela University Research Week

References

*Referee 1	Prof S. Roux
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*Referee 2	Dr N.S Dambuza
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Relationship	PhD Co-Supervisor
*Referee 3	Mr Philanathi Mabena
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