



RHODES UNIVERSITY, MAKHANDA, SOUTH AFRICA

STUDENT INFORMATION



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EDUCATION DETAILS:

PhD (Chemistry) – accepted for PhD – awaiting MSc results
MSc (Chemistry) Rhodes University - thesis submitted March 2025, awaiting results)
BSc Honours (Biotechnology) 2022 – Rhodes University
BSc (Biochemistry and Microbiology) 2021 – Rhodes University

RESEARCH TITLE/PROJECT:

Development of tumour and microorganism targeted porphyrin-based nanocarriers for enhanced photodynamic anticancer and antimicrobial therapy

PUBLICATIONS:

1. Vuyokazi Nobatana, James Oyim, Nnamdi Nwahara, Earl Prinsloo, Tebello Nyokong
The potential of photodynamic therapy combined with hyperthermia using porphyrin-nanomaterial hybrids against the triple-negative breast cancer cell line

Polyhedron 267 (2025) 117341 (1-12)

<https://doi.org/10.1016/j.poly.2024.117341>

2. Vuyokazi Nobatana, James Oyim, Nnamdi Nwahara, Azole Sindelo, Tebello Nyokong
The photodynamic anti-cancer and anti-bacterial behaviour of meso-substituted trans-A₂B₂ porphyrin conjugated silica-gold nanoparticles

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