



RHODES UNIVERSITY, GRAHAMSTOWN, SOUTH AFRICA

STUDENT INFORMATION



MS NTHABELENG REGINA MOLUPE (DOCTORAL STUDENT)

STUDENT DETAILS:

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CONTACT DETAILS:

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REGISTRATION DETAILS:

Academic Status: Postgraduate

Faculty: Science

Department: Chemistry

Degree: PhD

Academic Year: 3

Registration Status: Full Time

EDUCATION DETAILS:

PhD (Chemistry) currently - Rhodes University, Grahamstown, South Africa
MSc – with distinction (Chemistry) 2019 - Rhodes University, Grahamstown, South Africa
BSc Honours – with distinction (Chemistry) 2016 – Rhodes University, Grahamstown, South Africa
BSc (Chemistry and Geology) 2015 – Rhodes University, Grahamstown, South Africa

RESEARCH PROJECT TITLE:

Singled oxygen applications of aza-bodipy dyes

PUBLICATIONS:

1. B. P. Ngoy, N. Molupe, J. Harris, G. Fomo, J. Mack, T. Nyokong
Photophysical Studies of 2,6-Dibrominated BODIPY Dyes Substituted with 4-Benzoyloxystyryl Substituent
Journal of Porphyrins and Phthalocyanines, 21 (2017) 431–438
DOI: 10.1142/S1088424617500420
<https://doi.org/10.1142/S1088424617500420>
2. Xu Liang, Junjia Fang, Minzhi Li, Qiuyun Chen, John Mack, Nthabeleng Molupe, Tebello Nyokong and Weihua Zhua
Push–pull type manganese(III)corroles: Synthesis, electronic structures and tunable interactions with ctDNA
Journal of Porphyrins and Phthalocyanines 2017, 21, 751–758
DOI: 10.1142/S1088424617500778
<https://doi.org/10.1142/S1088424617500778>
3. Molupe, N., Babu, B., Oluwole, D.O., Prinsloo, E., Mack, J. and Nyokong, T.
The investigation of in vitro dark cytotoxicity and photodynamic therapy effect of a 2,6-dibromo-3,5-distyryl BODIPY dye encapsulated in Pluronic® F-127 micelles
Journal of Coordination Chemistry 2018 71(21), 3444–3457
DOI: 10.1080/00958972.2018.1522536
ISBN: 0095-8972
Publisher: Taylor and Francis Group
<https://doi.org/10.1080/00958972.2018.1522536>
4. Nthabeleng Molupe, Balaji Babu, Earl Prinsloo, Abdessamad Y.A. Kaassis, Katharina Edkins, John Mack and Tebello Nyokong
Photodynamic activity of Sn(IV) meso-tetraacenaphthylporphyrin and its methyl-β-cyclodextrin inclusion complexes on MCF-7 breast cancer cells
Journal of Porphyrins and Phthalocyanines (2019) 23 1486–1494
DOI: 10.1142/S1088424619501633
<https://doi.org/10.1142/S1088424619501633>

5. Molupe, Nthabeleng; Babu, Balaji; Oluwole, David O.; Prinsloo, Earl; Gai, Lizhi; Shen, Zhen; Mack, John; Nyokong, Tebello

Photodynamic activity of 2,6-diiodo-3,5-dithienylvinyleneBODIPYs and their folate-functionalized chitosancoated Pluronic F-127 micelles on MCF-7 breast cancer cells

Journal of Porphyrins and Phthalocyanines (2020), 24, 973-984

DOI:10.1142/s1088424619501773

<https://doi.org/10.1142/S1088424619501773>

OVERSEAS TRAVEL:

18 Sept – 04 Oct 2018

Travelled to Northern Ireland to do cancer research at Queen's University in Belfast. Trip was funded by my sponsors, the Pearson-Young Memorial Trust in London, United Kingdom.