STUDENTS

Graduated Students

Ivan Mfouo-Tynga
B.Tech and Masters Student (Cum Laude) in Biomedical Technology
Title of Research Project: Cellular Effects of Metallated Phthalocyanine and 5-ALA on Human Breast Cancer Cells (MCF-7) Using Low Level Laser Irradiation
Title of Dissertation: Effectiveness of Zinc Phthalocyanine and Hyericin in inducing cell death in Human Breast Cancer cells (MCF-7) using low intensity laser irradiation (LILI)

Sandra Ayuk
B.Tech and Masters Student (Cum Laude) in Biomedical Technology
Title of Research Project: Influence of Low Intensity Laser Irradiation on Nitric Oxide in Isolated Human Skin Fibroblasts
Title of Dissertation: Collagen Production in Wounded Human Skin Fibroblasts in Response to Low Intensity Laser Irradiation

Bernard Mvula
Masters and Doctorate Student in Biomedical Technology
Title of Dissertation: Effect of Low Level Laser Irradiation on Human Adult Adipose Derived Stem Cells – an In Vitro Study
Title of Thesis: Differentiation Potential of ADSC’s in Co-Culture with SKUT-1 and the effect of Laser Irradiation

Palesa Sekhejane
Masters and Doctorate Student in Biomedical Technology
Title of Dissertation: Effect of Low Level Laser Irradiation on Expression of Cytokines and Growth Factors Involved in Wound Healing
Title of Thesis: Subcellular Localization of Zinc Sulfophthalocyanine and its Efficacy for Photodynamic Therapy in Colorectal Cancer Cell Lines (DLD-1 and CaCo-2)

Sello Manoto
Masters and Doctorate Student in Biomedical Technology
Title of Dissertation: The Effect of a Zinc Sulphophthalocyanine and Laser Irradiation (636 nm) on a Lung Cancer Cell Line (A549)
Title of Thesis: Phototoxic Effects of Zn Sulfophthalocyanine on Lung Cancer Cells (A549) Grown as a Monolayer and Three Dimensional Multicellular Tumour Spheroids

Jennifer De Villiers
B.Tech and Masters Student Biomedical Technology
Title of Research Project: The Effect of Low Level Laser Therapy on Wounded Cells that have been Exposed to Zearalenone
Title of Dissertation: Functionality of Adipose Derived Stem Cells Differentiated Smooth Muscle Cells Using Fluorescent Live Cell Imaging

Alwin Mbene
B.Tech and Masters Student Biomedical Technology
Title of Research Project: Adaptive Response and DNA Damage in Diabetic Wounded Fibroblast Cells following laser Irradiation
Title of Dissertation: The Effects of Low Level Laser Therapy on Gene Activation, DNA Damage and Repair Using 5 or 16 J/cm² on Wounded Human Skin Fibroblast Cells

Innocent Zungu
B.Tech and Masters Student Biomedical Technology
Title of Research Project: Adaptive Response and DNA Damage in Diabetic Wounded Fibroblast Cells following laser Irradiation
Title of Dissertation: Mitochondrial Responses of Normal and Injured Human Skin Fibroblasts Following Low Level Laser Irradiation - An In Vitro Study

Patricia Kasowanjete
Title of Research Project: Cellular Response (Physical/ Chemical Changes) of Colorectal Cancer Cells (Caco-2 Cells) Treated with Different Concentration of Hypericin and Aluminium Phthalocyanine

Abraham Banda
Title of Research Project: The Role of Low Intensity Laser Irradiation on the Differentiation of Adipose Derived Stem Cells into Neural Cells

Lerato Moroena
Title of Research Project: Effect of 660 nm on the JAK/STAT Signalling Pathway in Diabetic Wounded Fibroblast Cells
Current Students

Post-Doctoral Fellow

Dr. Hemmaragala M Nanjundaswamy
Project Title: Novel Biomolecule-Nanoparticle System: Synthesis, Properties, Cellular Interactions and Cytotoxicity Studies

Dr Blassan P. George
Project Title: A Comparative Study of Plant Extract and Photosensitizer (MPc) as a Chemotherapeutic Agent: A Novel Treatment Strategy

Dr Sathish Sundar Dhilip Kumar
Project Title: Selective Laser Efficiency of Green Synthesized Silver Nanoparticles by Aloe Arborescens and its Wound Healing Applications: In Vitro

Current Students – Doctorate

Ivan Mfouo-Tynga
Title of Thesis: Combined effects of Zinc Phthalocyanine-antibody-gold nanoparticle conjugates and low intensity laser irradiation (LILI) in human breast and lung cancer cells

Sandra Matabi Ayuk
Title of Thesis: The role of Low Intensity Laser Irradiation on matrix proteins and gene expression in various stressed fibroblasts cell models

Ivy Ndhundhuma
Title of Thesis: Photochemical tumor detection modality for skin cancer

Francois Kabeya
Title of Thesis: Modelling of laser treatment for coronary heart disease

Current Students – Masters

Anine Crous
Title of Dissertation: The Effect of Low Intensity Laser Irradiation on Cancer Stem Cells Isolated from Lung Cancer
Sania Kadanyo  
Title of Dissertation: Synthesis and characterisation of copper nanoparticles and its photoactive effect in colorectal cancer cells

Khosi Mpofana  
Title of Dissertation: Effectiveness of light emitting diode in the treatment of melasma on skin types V and VI

Nozipho Sithole  
Title of Dissertation: Phototherapy and podiatric intervention for the management of chronic lower limb ulcerations in patients with type II Diabetes Mellitus and skin type III and V.

Nadia Dembskey  
Title of Dissertation: The effectiveness of laser treatment for Onychomycosis

Ndivito Elodie Kiro  
Title of Dissertation: Impact of Low Intensity Laser Irradiation on breast and cervical cancer stem cells

Current Students – Honours

Thabisile Mabuza  
Title of Project: An in vitro study of phototoxicity of gold nanoparticle conjugated 5 ALA on human melanoma (A375) cancer cells

Tshepiso Masekoameng  
Title of Project: Effect of gold nanoparticle conjugated zinc sulfophthalocyanine on cell proliferation and viability of A549 cancer cells