



# Biophysics in Africa - 2026

## Wednesday 25 March 2026

### Medical Biophysics (10:00-11:40)

time	[id] title	presenter
10:00	[7] Green-Synthesized Silver Nanoparticle–Liposomal ZnPcS4 Nanoplatform for Enhanced Photodynamic Therapy in Breast Cancer	CHOTA, Alexander
10:20	[9] Plant based photosensitizers: An in vitro study against cancer cells	FAKUDZE, Nosipho
10:40	[13] Photodynamic Therapy against Drug-Resistant Cancer Cells	Dr SARBADHIKARY, Paromita
11:00	[19] Eco-Friendly Gold Nanoparticle-Hypericin Conjugates for Antibody-Mediated Breast Cancer Phototherapy	MOHLONGO, Mpho
11:20	[10] Phototoxicity of Pheophorbide-a in Caco-2 colorectal cancer cells examined through cellular responses and morphological characterisation	Mr BRONI, Fermin

### Medical Biophysics (13:00-14:40)

time	[id] title	presenter
13:00	[20] A Bioformulated Curcumin–Silver Nanoconjugate for Potent Photodynamic Management of Resistant Lung Cancer	Dr KAH, Glory
13:20	[31] Biogenic Silver Nanoparticles for Visible-Light Activated Breast Cancer Photodynamic Therapy	Mr BAIDOO, Isaac
13:40	[49] Evaluation of Multifunctional Spinel and Hexaferrite Nanostructures for Magnetic Hyperthermia and Advanced Tumor Therapy	RAYAN, Daa EL-Rahman Dr ISMAIL , Mahmoud
14:00	[59] Advances in MRI techniques for early detection and characterization of brain tumors: A medical physics and biophysical perspective	NJANJI, Nyasha
14:20	[60] Biophysical Modeling of Real-Time Cellular Mechanical Responses to Ionizing Radiation for Predicting Radiotherapy Outcomes	NJANJI, Nyasha

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## Medical Biophysics: Review of Medical Physics in Africa (17:00-18:30)

time	[id] title	presenter
17:00	[73] Review of Medical Physics in Africa	Prof. INKOOM, Stephen