

International Nanomedicine Webinar South Africa (Hybrid Event)

The DSI-Mandela Nanomedicine platform would like to invite you to the International Nanomedicine webinar that will take place on the 10th of October 2022 at 11:00-15:00 SAST. Venue: Nelson Mandela University Missionvale campus & Microsoft Teams.

The theme of the webinar is the role of nanomedicine in achieving the United Nations (UN) 2030 Sustainable Development Goal 3: Good Health and Well-Being

Nanomedicine Research Chair: Dr Steven Mufamadi, DSI-Mandela Nanomedicine Platform, Nelson Mandela University, Maluta.Mandela@Mandela.ac.za

| Chairperson: Dr Maluta Steven Mufamadi Facilitator: Ms Sinovuyo Banzana | | |
|--|---|---|
| International Nanomedicine Webinar | | |
| Time | Topic | Speaker |
| 11:00-11:05 | Opening and Welcome | Dr Kwezi Mzilikazi: Director of Research Support and Management (Nelson Mandela University) |
| 11:05- 11:20 | Green nanotechnology: Phytochemical Formulations | Dr Mpho Ngoepe (Nelson Mandela University) |
| 11:20-11:35 | Nanomedicines: A new era of medicine to combat breast cancer | Dr Aidan Battison (Nelson Mandela University) |
| 11:35-11:50 | Plant-based synthesis of gold nanoparticles for colon cancer treatment | Ms Itumeleng Zosela (Nelson Mandela University) |
| 11:50-12:05 | Optimising the printability of nanocellulose, alginate and hyaluronic acid based bioinks for the extrusion 3D printing of cartilage | Ms Gemma Calitz (Swansea University) |
| 12:05-12:25 | Q&A | |
| 12:25-12:40 | Break | |
| 12:40-13:05 | The potential of plant-based nanoparticles synthesis as antiviral agents against SARS-CoV-2: a focus on Azadirachta indica | Dr Frank Eric Tatsing Foka (North West University) |
| 13:05-13:20 | High-dimensional immune profiling of 2D materials and MXenes | Dr Arianna Gazzì (University of Padua) |
| 13:20-13:35 | Nanoengineering of tobacco mosaic virus for bioimaging and photothermal immunotherapy of melanoma | Prof Christian Isalomboto Nkanga (University of Kinshasa) |
| 13:35-13:50 | Stealth polyplexes to control the biological fate of nanomedicines | Ms Coral García (IQS University) |
| 13:50-14:25 | Q&A | |
| 14:25-14:30 | Vote of Thanks | Prof Melariri: Director of Research, Faculty of Health Sciences (Nelson Mandela University) |