

TENTATIVE PROGRAM



Theme: Reshaping the Future with Minuscule Wonders

7th International Conference on
**NANOTECHNOLOGY AND
NANOMEDICINE**

April 11-12, 2024 | Amsterdam, Netherlands

<https://nanotechnology.pulsusconference.com/>

AGENDA

Thursday | April 11, 2024 | Day 1t

Opening Ceremony 09:00-09:15 (BST)

Keynote Forum

9:15-10:00 **Title: Nanoscale imaging of super-high-frequency microelectromechanical resonators with femtometer sensitivity**

L.F. Mabena | Tshwane University of Technology | South Africa

10:00-10:45 **Title: P12-38 In vitro skin irritation of microfibrillated cellulose and silica nanoparticles: sustainable alternatives to developing nanotechnology products**

Luz Esther Gonzalez Reyes | Universidad del Valle | Colombia

10:45-11:30 **Title: Silicon nanotechnology for biosensing and bioimaging**

Muhsin Aykapadathu | Heriot-Watt University | Dubai

Networking & Refreshment Break 11:30-11:45

Session: Nanotechnology and Nanoengineering | Nanomaterials | Nanophysics and Quantum Physics | Cancer Nanomedicine | Nanoelectronics | Ethical and Regulatory Issues

Session Chair: Alicia de Andres Miguel | Materials Science Institute of Madrid | Spain

11:45-12:15 **Title: Reduction of asthma and allergic rhinitis by minimizing the animal dander and particle count in indoor air on using the AHPCO and Plasma Nanotechnology**

Shamim Mondal | R. Matt Villarreal Infinite Composites Technologies | USA

12:15-12:45 **Slots Available**

Lunch Break 13:15-14:15

Session: Current Research in Green Nanotechnology | Nanobiotechnology and Nanotoxicology | Nanotechnology in Food Processing and Packaging

Session Chair: Eduardo Ruiz Hitzky | Materials Science Institute of Madrid | Spain

14:15-14:45 **Title: Potential Nanotoxicity of Pegylated Gold Nanorods having Different Sizes and Shapes as a Biocompatible Contrast Agent for 2PE Imaging**

Funmilola Fisusi | Howard University | USA

14:45-15:15 **Title: Airyscan Cca Provides Structural and Dynamics Fingerprinting of Subcellular Compartments in Living Cells**

Nailah Brandy | Howard University | USA

15:15-15:45 ***Slots are Available**

Networking & Refreshment Break 15:45-16:00

*** ORAL PRESENTATION SLOTS ARE AVAILABLE***

Poster Forum (16:30-18:00)

PP01

Title: Fast Volumetric Imaging in Two-Photon Microscopy and Enhanced Background Rejection using an Acoustic Lens

Oliver Schmachtenberg | Universidad De Valparaiso | Chile

Thanks Giving & Closing Ceremony

Friday | April 12, 2024 | Day 2

Opening Ceremony 09:00-09:15 (BST)

Keynote Forum

9:15-10:00

Title: From nanotoxicology to nano-enabled agriculture: Following the science at the Connecticut Agricultural Experiment Station (CAES)

Witold Lojkowski | Institute of High Pressure Physics | Poland

10:00-10:45

Title: Ethanolamine phospholipids at the air-water interface as cell membranes models of microorganisms to study the nanotoxicology of sakuranetin

Yanfang Gao | Tsinghua University of Chemistry | China

10:45-11:30

Slots are Available

Networking & Refreshment Break 11:30-11:45

11:45-12:30

Title: Exploring the usefulness of the complex in vitro intestinal epithelial model Caco-2/HT29/Raji-B in nanotoxicology

Ricard Marcos | Universitat Autònoma de Barcelona | Spain

Session: Nanophotonics | Nanotechnology in Automotive and Aerospace Industries | Regenerative Nanomedicine | Implementation of AI in Nanotechnology

Session Chair: Hans Jorg Fecht | Ulm University | Germany

12:30-13:00

Title: Poly(vinyl alcohol)-coated silver nanoparticles: Activation of neutrophils and nanotoxicology effects in human hepatocarcinoma and mononuclear cells

Iêda Maria Martinez Paino | University of São Paulo | Brazil

*** ORAL PRESENTATION SLOTS ARE AVAILABLE***

Lunch Break 13:30-14:30

14:30-15:00

Title: Nanotoxicology of an Elastin-like Polypeptide Rapamycin Formulation for Breast Cancer

John Andrew MacKay | University of Southern California | USA

15:00-15:30

Slots are Available

*** ORAL PRESENTATION SLOTS ARE AVAILABLE***

Networking & Refreshment Break 16:00-16:15

Session: Nanotechnology in Tissue Engineering | Nanosensors for Defense and Security | Carbon Nanotubes and Nanocomposites | Nanomedicine

Session Chair: Shih Hung Yang | National Cheng Kung University | Taiwan

16:15-16:45 Title: Hyaluronic acid-based supramolecular nanomedicine with optimized ratio of oxaliplatin/chlorin e6 for combined chemotherapy and O2-economized photodynamic therapy

Ruibing Wang | University of Macau | China

16:45-17:15 Title: Amyloid- β /Tau burden and neuroinflammation dual-targeted nanomedicines synergistically restore memory and recognition of Alzheimer's disease mice

Zhi Ping Xu | The University of Queensland | Australia

17:15-17:45 *Slots are Available*

Poster Forum (17:45-18:45)

PP01 Title: Application of mesenchymal stem cells combined with nanopolypeptide hydrogel in tissue engineering blood vessel

Nianfeng Sun | Qingdao University | China

POSTER/VIRTUAL SLOTS ARE AVAILABLE

Day 2 - Closing Ceremony

"Certificates and Award Distribution"

Thanks Giving & Closing Ceremony

**** The program schedule may subject to change***