

Scientific Program

Day 1

June 08, 2016

9:30-10:00 Registrations

Frisco

conference**series**.com 10:00-10:15

Opening Ceremony

Keynote Forum

Introduction

10:15-11:00 **Impact of nanobiotechnology on the future of medicine (Nanomedicine): The road towards precision medicine**

Shaker A Mousa, Albany college of Pharmacy and Health Science , USA

Panel Discussion

Networking & Refreshments: 11:00 - 11:15 @ Foyer

11:15-12:00 **Mechanism of cancer sensing using quantum dots and metallic nanostructures**

Mahi R Singh, Western University, Canada

Group photo 12:00 - 12:05

Sessions 12:05 - 12:10

Track 1: Nanotechnology in Medicine

Track 2: Nanopharmaceuticals

Track 3: Medical Nanotechnology in cancer therapy

Track 7: Nanotechnology in Bone Regeneration

Track 8: Nanotechnology for Treatment of Stroke and Spinal Cord Injury

Session Chair: **Shaker A Mousa**, Albany college of Pharmacy and Health Science , USA

Session Co-Chair: **Robert K DeLong**, Kansas State University, USA

Session Introduction

12:10-12:40 **Characterizing the nanobio interface of bio-metal or bio-metal oxide nanoparticles: Impact on the function and delivery of proteins and RNA**

Robert K DeLong, Kansas State University, USA

12:40-13:10 **Chitosan-propolis nanoformulation for combating Enterococcus faecalis biofilms *in vitro***

Fabian Davamani, B K Mody Government Pharmacy College, Malaysia

Panel Discussion

Lunch Break: 13:10-13:40 @ Waterfall Atrium

13:40-14:10 **A new protocol for photothermal therapy of cancer using folate conjugated gold nanoparticles**

S Kamran Kamrava, Iran University of Medical Sciences, Iran

14:10-14:40 **Photodynamic cancer therapy of Ag@ZrO₂ of core-shell nanoparticles *in vitro***

K S Meena, Queen Mary's College, India

- 14:40-15:10** **Surface modification of biosynthesized ZnO nanoparticles by PEG and their antioxidant activity**
B Deva Prasad Raju, Sri Venkateswara University, India
- 15:10-15:40** **Nanobased phytopotential of Canthium coromandelicum against fluoride induced nephrotoxicity**
M Suriyavathana, Periyar University, India
- 15:40-16:10** **pHLIP® technology for targeting of gold nanoparticles to tumors**
Jennifer L Daniels, University of Rhode Island, USA

Panel Discussion

Networking & Refreshments: 16:10-16:25 @ Foyer

- 16:25-16:55** **Non-invasive cell tracking system using lipid supported polymeric nanoparticle**
Woo Jung Shin, Sungkyunkwan University, South Korea
- 16:55-17:25** **Formulation and delivery of lipophilic drugs to cancer cells by pHLIP® coated liposomes**
Mohan C Pereira, University of Rhode Island, USA
- 17:25-17:55** **Detection of nanoparticle and drug-induced apoptosis in circulating cells in vivo**
Jacqueline Nolan, University of Arkansas for Medical Sciences, USA

Day 2

June 09, 2016

Frisco

Keynote Forum

Introduction

- 9:30-10:15** **Quick fabrication of highly porous dual tissue scaffolds using textile techniques**
Abdel Salam H Makhlof, University of Texas Rio Grande Valley, USA

Sessions 10:15-10:20

Track 4: Biomedical Nanomaterials
Track 5: Medical Nanotechnology Devices
Track 6: Nanotechnology in Cardiovascular Medicine

Session Chair: Agnès Bonvilain, University of Grenoble Alpes, France

Session Co-Chair: Fabian Davamani, B K Mody Government Pharmacy College, Malaysia

Session Introduction

- 10:20-11:50** **Microsensors for instrumented medical tools for their real time monitoring**
Agnès Bonvilain, University of Grenoble Alpes, France

Panel Discussion

Networking & Refreshments: 10:50 - 11:05 @ Foyer

- 11:05-11:35** **Rivastigmine loaded solid lipid nanoparticles: Formulation and in vitro characterization and antioxidant activity**
N John Sushma, Sri Padmavati Women's University, India
- 11:35-12:05** **Security in pervasive healthcare systems**
Mary Mehrnoosh Eshaghian-Wilner, University of Southern California, USA
- 12:05-12:35** **A study of biophotonic sensors in metallic nano-hole structures**
Mahi R Singh, Western University, Canada
- 12:35-13:05** **Bioinspired hemozoin nanocrystals as high contrast photoacoustic agents for ultrasensitive malaria diagnosis**
Kai A Carey, University of Arkansas for Medical Sciences, USA

Panel Discussion

Lunch Break: 13:05-13:50 @ Waterfall Atrium

- 13:50-14:20** **Two Dimensional Fluorescence Difference Spectroscopy (2D FDS) to characterize nanoparticles and their interactions**
Miranda N Hurst, Kansas State University, USA
- 14:20-14:50** **The quest to achieving a concerted cancer treatment: Challenges in nanotheranostics delivery**
Yaw Opoku-Damoah, China Pharmaceutical University, China
- 14:50-15:20** **Photoswitchable nonfluorescent nanoprobe for tracking individual tumor and bacterial cells**
Walter Harrington, University of Arkansas at Little Rock, USA

Workshop

- 15:20-16:20** **Nanoclays and nanoceramics in diagnostic microbiology**
Claudio Rodríguez Martínez, National Center of Biological Products, Cuba

Panel Discussion

Networking & Refreshments: 16:20 - 16:35 @ Foyer

Poster Presentations: 16:35-17:35

- pHLIP® Technology for Targeting of Gold Nanoparticles to Tumors**
Jennifer L. Daniels, University of Rhode Island, USA
- Cobalt oxide nanoparticle mediated delivery of Splice Switching Oligonucleotides (SSO) RNA**
Miranda N Hurst, Kansas State University, USA
- The effects of nanoparticles on the structure and function of proteins luciferase and β -galactosidase**
Ashley Gasiorowski, Kansas State University, USA
- Detection of nanoparticle and drug-induced apoptosis in circulating cells in vivo**
Jacqueline Nolan, University of Arkansas for Medical Sciences, USA
- Formulation and delivery of lipophilic drugs to cancer cells by pHLIP® coated liposomes**
Mohan C Pereira, University of Rhode Island, USA
- Photoswitchable nonfluorescent nanoprobe for tracking individual tumor and bacterial cells**
Walter Harrington, University of Arkansas at Little Rock, USA
- Bioinspired hemozoin nanocrystals as high contrast photoacoustic agents for ultrasensitive malaria diagnosis**
Kai A Carey, University of Arkansas for Medical Sciences, USA

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