

**conference series LLC Ltd**

1599<sup>th</sup> Conference

*Scientific Program*

Joint Event

Proceedings of

23<sup>rd</sup> International Conference on

# **NANOMATERIALS SCIENCE & NANOENGINEERING & TECHNOLOGY**

&

International Conference and Exhibition on

# **PHARMACEUTICAL NANOTECHNOLOGY AND NANOMEDICINE**

April 18-19, 2018 | Las Vegas, USA

**Exhibitor**



Day 1 April 18, 2018

Conference Hall: Oasis A

08:00-08:30 Registrations

08:30-08:40 Opening Ceremony

Keynote Forum

08:40-09:20 Title: **Nurture though nature; The story of Metadichol®: A unique nano lipid**  
P R Raghavan, Nanorx Inc., USA

09:20-10:00 Title: **Two decades of commercializing nanomedicine to improve disease prevention, detection and treatment**  
Thomas J Webster, Northeastern University, USA

Group Photo

Panel Discussion

Networking & Refreshment Break 10:00-10:20 @ Foyer

10:20-10:35 Title: **Advancing science through discovery (Exhibitor)**  
Chad Schwartz, Beckman Coulter Life Sciences, USA

10:35-11:15 Title: **Enhanced T1 MRI contrast and fluorescence stability within a plasmonic core-shell nanoparticle**  
Oara Neumann, Rice University, USA

11:15-11:55 Title: **Systemic biology approaches to treat age related macular degeneration using nano-particulate drug delivery systems: A review**  
Yashwant Pathak, University of South Florida, USA

11:55-12:35 Title: **Free-standing nanostructures at atomic scale: From growth mechanisms to local properties at the nanoscale**  
Jordi Arbiol, Catalan Institute of Nanoscience and Nanotechnology, Spain

Panel Discussion

Lunch Break 12:35-13:30 @ Hawaiian Gardens

13:30-14:30 Title: **GxP/GMP and its consequences for documentation and information technology systems**  
Eleonora Babayants, Galaxy Consulting, USA

14:30-15:10 Title: **Highly selective and sensitive biochemical detector for medical applications**  
Branislav Vlahovic, NASA University Research Center, USA

15:10-15:50 Title: **3D Printing in chemistry: Development of monolithic heterogeneous 3D-catalysts for solution phase chemistry in drug discovery**  
Alberto Coelho, University of Santiago de Compostela, Spain

Panel Discussion

Networking & Refreshment Break 15:50-16:10 @ Foyer

Sessions: **Bionanotechnology | Nanoscale Materials | Nanocomposites | Nanoparticles and Nanomedicine | Emerging Nano Medicine | Computational Studies in Nanoparticles | Research and Development of Nanomedicine**

Session Chair: **Istvan Toth**, The University of Queensland, Australia

Session Co-chair: **Jordi Arbiol**, Catalan Institute of Nanoscience and Nanotechnology, Spain

Session Introduction

16:10-16:30 Title: **Exploiting nanomaterial-induced pro-survival autophagy for cancer therapy**  
Long-ping Wen, South China University of Technology, China

16:30-16:50 Title: **The never-ending internal struggle: Do I disclose my invention and attempt to obtain a patent or forgo a patent and keep it as a trade secret?**  
Daniel Chojnowski, Howard & Howard Attorneys PLLC, USA

16:50-17:10 Title: **Exosome nanovesicles for the homing delivery of therapeutics into autologous cancer cells**  
Shuhua Bai, Husson University, USA

17:10-17:30 Title: **Optinanopro: Novel nanocomposites and nanocoatings and their applications in the packaging, automotive and solar panel processing lines**  
Amparo Verdu Solis, Bioinica, Spain

17:30-17:50 Title: **Gold nanoparticles based electrochemical biosensor for the detection of Escherichia coli ATCC 25922**  
Sallahuddin Panhwar, University of Engineering & Technology, Pakistan

Panel Discussion

Day 2 April 19, 2018

Conference Hall: Oasis A

Keynote Forum

08:30-08:40 Introduction

08:40-09:20 Title: **Developing nanoparticle-based molecular imaging probe for Alzheimer's disease-related enzymes**  
Xudong Huang, Harvard Medical School, USA

09:20-10:00 Title: **Development of universal transfer technique for chemical vapor deposited 2-dimensional films**  
Dae Joon Kung, Sungkyunkwan University, South Korea

10:00-10:40 Title: **Nanotechnology based delivery systems for vaccines**  
Istvan Toth, University of Queensland, Australia

Panel Discussion

**Networking & Refreshment Break 10:40-11:00 @ Foyer**

- 11:00-11:40** Title: **The antibacterial effect of green and chemically synthesized silver nanoparticles on extended spectrum  $\beta$ -lactamase (ESBL) and carbapenemases producing enterobacteriaceae (CPE)**  
May Alrashed, King Saud University, Saudi Arabia
- 11:40-12:20** Title: **A computerized breath analyser device based on a micro-nano-chip of VO<sub>2</sub> nanoparticles for personal pain-free determination of blood glucose levels in a type 1 diabetes mellitus patient**  
Bonex Wakufwa Mwakikunga, DST/CSIR National Centre for Nano-Structured Materials, South Africa
- 12:20-13:00** Title: **Composite electrospun aligned PLGA/curcumin/heparin nanofibrous membranes for wound dressing application**  
Jyh-Ping Chen, Chang Gung University, Taiwan

**Panel Discussion****Lunch Break 13:00-13:50 @ Hawaiian Gardens**

- 13:50-14:30** Title: **Nanocomposites for encyclopedia of bioanalytical methods for bioavailability and bioequivalence studies of pharmaceuticals**  
Toyoko Imae, National Taiwan University of Science and Technology, Taiwan

**Poster Presentations 14:30-15:10****Poster Judge: Dae Joon Kung, Sungkyunkwan University, South Korea**

- PP 01** Title: **Microfluidics-based manufacture of PEG-b-PLGA block Copolymer nanoparticles for the delivery of small molecule therapeutics**  
Shell Ip, Precision NanoSystems Inc., Canada
- PP 02** Title: **Synthesis and characterization of Fe<sub>2</sub>O<sub>3</sub>/CuO thin films for arsenic removal from water**  
Elizabeth Pastrana Alta, National University of Engineering, Peru
- PP 03** Title: **Experimental factorial design to optimize the formulation of solilipid nanoparticles of Chondroitin Sulfate**  
Eduviges Bustos Araya, University of Barcelona, Spain
- PP 04** Title: **Preparation of porous microspheres of biodegradable polymer impregnated by Scoria (Volcanic ash) nanoparticles via electrospaying**  
Hyunsuk Lee, Amorepacific R&D Center, South Korea
- PP 05** Title: **Microcapsules modified with core-shell ferrite nanoparticles: Applications in drug-release**  
Atif Masood, Philipps Universität of Marburg, Germany
- PP 06** Title: **Using nano- and micro-titanium dioxide (TiO<sub>2</sub>) in concrete to reduce air pollution**  
Hala N Elia, University of Arkansas at Little Rock, USA

**Sessions:**

**Nanoscale materials | Sustainable (or) Green Nanotechnology | Nanofabrication | Nanocomposites | Smart Nanotechnology | Toxicology of Nanoparticles | Research and development of Nanomedicine | Polymer Nanoparticles and Nanomedicine | Nanoparticles and Nanomedicine**

**Session Chair: Xudong Huang, Harvard Medical School, USA**

**Session Co-chair: Toyoko Imae, National Taiwan University of Science and Technology, Taiwan**

**Session Introduction**

- 15:10-15:30** Title: **A Trojan Horse strategy for the delivery of biologicals**  
Nicky Thomas, University of South Australia, Australia
- 15:30-15:50** Title: **Aptamer conjugated nanoparticles as carrier for targeted anticancerous drug**  
Muhammad Yasir Ali, Philipps University Marburg, Germany

**Panel Discussion****Networking & Refreshment Break 15:50-16:10 @ Foyer**

- 16:10-16:30** Title: **Chemical bonding characters of love herbal medicine**  
Arend Laurence Mapanawang, Yayasan Medika Mandiri Foundation, Indonesia
- 16:30-16:50** Title: **Enhanced gene delivery by lipid triblock nanocarriers**  
Imran Tariq, Philipps University of Marburg, Germany
- 16:50-17:10** Title: **Electronics physical system of large antioxidant structure in herbal medicine based Zingiberaceae fruit: Understanding and application**  
Hendry Izaac Elim, Pattimura University, Indonesia
- 17:10-17:30** Title: **Synthesis of low toxic quantum dots for bioapplications**  
Fatemeh Mir Najafi Zadeh, University of New South Wales, Australia

**Panel Discussion****Award Ceremony****Thanks Giving & Closing Ceremony**