

Joint Event

Scientific Program



# **25<sup>th</sup> Nano Congress for Future Advancements**

**&**

12<sup>th</sup> Edition of International Conference on

## **Nanopharmaceutics and Advanced Drug Delivery**

August 16-18, 2018 | Dublin, Ireland

# Day-1

August 16, 2018

08:30-09:00 Registrations

## Opening Ceremony

09:00 - 09:20

Meeting Hall @ Tower Suite

### KEYNOTE FORUM

09:20 - 09:30 Introduction

09:30 - 10:00 **Title: Microtubular nanomembrane devices: From energy storage to reproduction technologies**  
Oliver G. Schmidt, Institute for Integrative Nanosciences, Germany

10:00 - 10:30 **Title: Bio-inspired anionic polymers as a platform for designing novel nanoscale intracellular drug delivery systems**  
Rongjun Chen, Imperial College London, UK

10:30 - 11:00 **Title: Progress in aligning nanomedicine with precision therapeutic approaches for the treatment of chronic diseases**  
Andrew David Miller, King's College London, UK

### GROUP PHOTO 11:00-11:05

Networking & Refreshment Break 11:05-11:20 @ Foyer

Sessions: Nano Biomaterials | Nano Materials Synthesis and Characterisation | Nano Sensors | Advanced Nanomaterials | Nanotechnology and Biomedical Applications | Drug Delivery Research | Nanomedicine | Pharmaceutical Nanotechnology

Chair: Anthony N. Papathanassiou, National and Kapodistrian University of Athens, Greece

### PLENARY SESSION

11:20 - 11:50 **Title: Restoration of damaged dental enamels using nano-scale iron-calcium phosphate minerals and femto-second pulsed near-IR lasers**  
Animesh Jha, University of Leeds, UK

11:50 - 12:20 **Title: Effect of LCP/PET blend composition and spinning parameters on nanofiber formation condition**  
Han-Yong Jeon, Inha University, South Korea

12:20 - 12:50 **Title: Synthesis, X-ray crystal structure, emission property, and DFT calculation of monoprotonated polypyridine**  
Naokazu Yoshikawa, Nara Women's University, Japan

12:50-13:20 **Title: Nanogauges for integration of strain sensors integrated into matter**  
Thomas Maurer, University of Technology of Troyes, France

Lunch Break 13:20-14:00 @ Peacock Restaurant

**14:00 - 14:30** **Title: Graphene-based nano materials for energy storage and photocatalysis**  
**Jae-Jin Shim**, Yeungnam University, Republic of Korea

**14:30 - 15:00** **Title: The use of flow imaging microscopy for nanoparticle analysis in biopharmaceuticals**  
**Kent Peterson**, Fluid Imaging Technologies Inc., USA

## SPEAKER FORUM

**15:00 - 15:25** **Title: Encapsulation of nanoparticles in composite gel microparticles for lung imaging and drug delivery**  
**Robert K Prudhomme**, Princeton University, USA

**15:25 - 15:50** **Title: Nanotechnology approaches for intensifying localized combination therapy for precision treatment of early stage breast cancer**  
**Patrick J Sinko**, Rutgers, The State University of New Jersey, USA

**Networking and Refreshments Break 15:50-16:05 @ Foyer**

**16:05 - 16:30** **Title: Attenuated protein toxins as intracellular nucleic acid delivery fibromyalgia and chronic pain vectors**  
**Simon C W Richardson**, University of Greenwich, UK

**16:30 - 16:55** **Title: Smart combination nanopreparations for cancer: bringing drugs inside cells and to individual organelles**  
**Vladimir P Torchilin**, Northeastern University, USA

**16:55 - 17:20** **Title: Antibody-proteases as a novel biomarker and a unique target to suit translational tools to be applied for biodesign, bioengineering and regenerative medicine therapeutic for a treatment of EGFR-dependent breast cancer tumors**  
**Sergey Suchkov**, Sechenov University, Russia

## PANEL DISCUSSION & NETWORKING

# Day-2

**August 17, 2018**

**Meeting Hall @ Tower Suite**

## KEYNOTE FORUM

**09:20 - 09:30** Introduction

**09:30 - 10:00** **Title: Solution processable phosphorescent organic light emitting diodes**  
**Jacek Ulanski**, Lodz University of Technology, Poland

**10:00 - 10:30** **Title: Personalized and precision medicine as a unique healthcare model to secure the national and international biosafety**  
**Sergey Suchkov**, Sechenov University, Russia

**10:30 - 11:00** **Title: A breakthrough in enhancing the therapeutic index of immunotherapy and target therapy for cancer**  
**Pauline Y Lau**, Suntec Medical, USA

**Networking & Refreshment Break 11:00-11:15 @ Foyer**

**Sessions: Nano Applications | Nano Science and Technology | Medical Applications in Nanotechnology | Biomarkers and Personalized Medicine | Cancer and Nanotechnology | Nanomaterials for drug delivery | Novel Drug Delivery Systems**

**Chair: Animesh Jha**, University of Leeds, UK

**Co-Chair: Simon C W Richardson**, University of Greenwich, UK

## PLENARY SESSION

**11:15 - 11:45** **Title: Nanocarbon-based electrode technology for soft electronics**  
**Joong Tark Han**, Korea electrotechnology Research Institute, Republic of Korea

**11:45 - 12:15** **Title: Attractive advanced cell therapy by using bioresorbable magnetic nanoparticles**  
**Silvia Panseri**, National Research Council of Italy, Italy

**12:15 - 12:45** **Title: Thermally reduced gold nanoparticles confined by ordered mesoporous carbon as an efficient catalyst for selective hydrogenation**  
**Ying Wan**, Shanghai Normal University, China

**12:45 - 13:15** **Title: Smart biomimetic nanoparticles: A new platform for nanomedicine**  
**Monica Montesi**, National Research Council of Italy, Italy

**Lunch Break 13:15-14:00 @ Peacock Restaurant**

## SPEAKER SESSION

**14:00 - 14:25** **Title: Nanotheranostics: TPGS micelles for early diagnosis and therapy of cancer**  
**Muthu Madaswamy Sona**, University of Singapore, India

**14:25 - 14:50** **Title: Influence of molecular structure and temperature on the adsorption behavior of PEO-PPO-PEO surfactants: A QCM-D study**  
**Lorenz De Neve**, Ghent University, Belgium

**14:50 - 15:15** **Title: Nano particle targeting assessed by novel photo acoustic and PET imaging: Internal normalization by multi spectral imaging**  
**Robert K Prudhomme**, Princeton University, USA

**15:15 - 15:40** **Title: Nano-amorphous *abiraterone* acetate formulation with improved bioavailability and eliminated food effect**  
**Tamás Solymosi**, NanGenex Inc., Hungary

**Networking & Refreshment Break 15:40-16:00 @ Foyer**

**16:00 - 16:25** **Title: Controlled release of bovine serum albumin from surfactant modified alginate beads**  
**Nilay Kahya**, Istanbul Technical University, Turkey

**16:25 - 16:50** **Title:** Immunoliposomes containing simvastatin, targeted towards EGFR, as potential therapeutic for a treatment of EGFR-dependent breast cancer tumors  
**Lucyna Matusiewicz**, University of Wroclaw, Poland

## POSTER PRESENTATIONS 16:50–17:20 @ LUCAN ROOM

**Poster Judge:** Pauline Y Lau, Suntec Medical, USA

**NC & NDD 01** **Title:** Flexible superhydrophobic heater with silver nanowires and carbon nanotubes  
**Jong Seok Woo**, Morgan Advanced Materials, South Korea

**NC & NDD 02** **Title:** CodeSphere: Molecular encoding of nanoparticles for targeted cargo delivery  
**Keith Henry Moss**, National Veterinary Institute, Denmark

**NC & NDD 03** **Title:** Formulation of peptide and protein therapeutics into nanoparticles by ion pairing for prolonged activity and improved delivery  
**Robert K Prudhomme**, Princeton University, USA

**NC & NDD 04** **Title:** Characterization stability and cell viability tests on ionic-gradient liposomes designed for the delivery of etidocaine  
**Juliana Damasceno Oliveira**, University of Campinas, Brazil

**NC & NDD 05** **Title:** Anticancer activity of G rich aptamer AS1411 grafted to gold nanospheres: From synthesis to mechanism study  
**Samaneh kabirian Dehkordi**, University of Lyon, France

**NC & NDD 06** **Title:** Nanomedicine: From high tech to global health  
**Robert K Prudhomme**, Princeton University, USA

**NC & NDD 07** **Title:** Phosphonium carbosilane dendrimers: Efficient non-viral vectors for siRNA delivery to adenocarcinoma cells *in vitro*  
**Regina Herma**, University of Jan Evangelista Purkyna, Czech Republic

## PANEL DISCUSSION & NETWORKING

# Day-3

August 18, 2018

Meeting Hall @ Nash Room

**09:20 - 09:30** Introduction

**09:30 - 10:00** **Title:** Epitaxial oxides on silicon for nanoelectronic applications  
**H. Jörg Osten**, Leibniz University Hannover, Germany

**10:00 - 10:30** **Title:** Silver nanoparticles in municipal wastewaters and environmental fate  
**Christian Gagnon**, Aquatic Contaminants Research Division, Canada

10:30 - 11:00 **Title: Nano engineered plasma polymer films for biomedical applications**  
**Krasimir Vasilev**, University of South Australia, Australia

**Networking & Refreshment Break 11:00-11:15 @ Foyer**

**Sessions: Advanced Nanomaterials | Nanotech for Energy and Environment | Spintronic Devices | Medical Applications in Nanotechnology | Nano Materials Synthesis and Characterisation | Nanotechnology for Biological Systems | Nano Science and Technology**

**Chair: Ewa Kazimierska**, Swansea University, UK

## PLENARY SESSION

11:15 - 11:45 **Title: Pre-formulation of Nanostructured Lipid Carriers (NLC) for drug delivery: Excipient-excipient interaction**  
**Laura Oliveira-Nascimento**, State University of Campinas, Brazil

11:45 - 12:15 **Title: Dispersed nano-graphene platelets within water-soluble bio-compatible polymers: Characterization of multi-scale electric charge flow in combined pressure and temperature conditions**  
**Anthony N. Papathanassiou**, National and Kapodistrian University of Athens, Greece

12:15 - 12:45 **Title: How carbon nanotubes functional groups influence copper electrodeposition for electrical transmission**  
**Ewa Kazimierska**, Swansea University, UK

12:45 - 13:15 **Title: Nanoscale optical trapping: Current challenges and future directions**  
**Carlo Bradac**, University of Technology of Sydney, Australia

**Lunch Break 13:15 -14:00 @ Peacock Restaurant**

14:00 - 14:30 **Title: Functionally antagonistic nano-engineering**  
**Il-Kwon Oh**, Korea Advanced Institute of Science and Technology, South Korea

**Networking & Refreshment Break 14:30-16:00 @ Foyer**

## PANEL DISCUSSION

**Awards & Closing Ceremony 16:00 - 16:30**

## Bookmark your dates

# 31<sup>st</sup> Nano Congress for Future Advancements

August 29-31, 2019 London, UK

E-mail: [nanocongress@nanotechconferences.org](mailto:nanocongress@nanotechconferences.org) Website: [nanocongress.nanotechconferences.org](http://nanocongress.nanotechconferences.org)

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