

Scientific Program

11th International Conference and Expo on

Nanoscience and Molecular Nanotechnology

October 20-22, 2016

Rome, Italy



Hosting Organizations: Conference Series LLC

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Email: mailto:nanotechnology@conferenceseries.net

Keynote Forum

10:00-10:30 Title: Nanoparticles for treatment of Alzheimer Disease

Dr Massimo Masserini, University of Milano-Bicocca, Italy

10:30-11:00 Title: Tuning nanomaterials' properties to boost photoconversion efficiency in excitonic solar cells

Dr Alberto Vomiero, Luleå University of Technology, Sweden

Networking and Refreshments Break: 11:00-11:15 @ Foyer

11:15-11:45 Title: The role of nanosystems in oil and gas production

Dr Valeh Shamilov, State Oil Company of Azerbaijan Republic, The Republic of Azerbaijan

Panel Discussion

Group Photo session @ 11:45-11:55

Sessions:

Nano-Fabrication, Characterization | Nanomedicine and Nanobiotechnology | Nanotechnology in Energy
Molecular Nanotechnology | Nanotechnology for Safety, Regulations and Ethics

Session Chair: Massimo Masserini, University of Milano-Bicocca, Italy

Session Chair: Anna Rita Bilia, University of Florence, Italy

Session Introduction

12:00-12:20 Title: Accurate and simultaneous biological targets identification by optically active nanoprobe
Dr Nekane Guarrotxena, ICTP-CSIC, Spain

12:20-12:40 Title: Targeted nanodelivery to treat chronic kidney disease. Nanomaterial design, response of podocytes and the role of glomerular filtration barrier

Stefanio Ordanini, Politecnico di Milano, Italy

12:40-13:00 Title: Natural Products Loaded In Nanocarriers: An Opportunity To Increase Stability, Oral Bioavailability And Bioefficacy

Dr Anna Rita Bilia, University of Florence, Italy

13:00-13:20 Title: The capabilities of X-ray excited optical luminescence by using X-ray nanoprobe beamline aimed for 40nm spatial resolution at Taiwan Photon Source.

Dr Bi-Hsuan Lin, National Synchrotron Radiation Research Center, Taiwan

Lunch Break 13:20-14:00 @ Hotel Restaurants

14:00-14:20 Title: A new stitching Soft X-ray interference lithography technique

Dr Wu Yanqing, Shanghai Institute of Applied Physics, P R China

14:20-14:40 Title: Using laser-induced jets fabrication method to control the particle size and alloy ratio of nanoparticle arrays

Dr Shao-Chin Tseng, National Synchrotron Radiation Research Center, Taiwan

14:40-15:00 Title: Poly-dopamine coated nano-size liposomes as novel drug carriers

Wei Zong, Harbin Institute of Technology, P R China

15:00-15:20 Title: Design and Synthesis of Magnetic Nanoparticles by Microwave Strategy

Yi-Jun Liang, Southeast University, P R China

15:20-15:40 Title: Hierarchical Release of Liposomes with Aqueous Two Phase System-A New Strategy for Long-circulating Liposomes

Xunan Zhang, Harbin Institute of Technology, P R China

15:40-16:00 Title: Facile Encapsulation of Gold Nanoparticles into PLGA Nanocarriers: Toward Visualizing Polymeric Nanoparticles Inside Biological Compartments

Alaaldin M. Alkilany, University of Jordan, Jordan

Networking and Refreshments Break: 16:00-16:20 @ Foyer

16:20-16:40 Title: Synthesis, structural properties and applications of zinc oxide nanowires growth on different substrates

Paula Obreja, National Institute for R&D in Microtechnologies (IMT-Bucharest), Romania

16:40-17:00 Title: I-CRLMNP: Immobilization of Candida rugosa lipase on magnetic nanoparticles with three different surface modifications

Marzieh Aghababie, University of Isfahan, Iran

17:00-17:20 Title: Fabrication and characterization of Polyvinyl alcohol nanofiber

Nazanin Ghafari, Islamic Azad University, Iran

Panel Discussion

OLIMPICA

Keynote Forum

09:30-10:10 Title: Flame Retardants Nanocomposites-Synergy Effect Of Combining Conventional Antypirenes With Carbon Nanofillers

Dr Ewa-Kicko Walczak, Institute for Engineering of Polymers Materials and Dyes, Poland

10:10-10:40 Title: The interaction of nano-archeasomes with lung surfactant in monolayer biomimetic systems

Dr E Anibal Disalvo, CIBAAL, Argentina

Sessions:

**Advanced Nanomaterials | Nano-Electronics and Microsystems | Applications of Nanotechnology
Industrial Nanotechnology | Nanotechnology for Oil and Gas Industry | Medical Nanotechnology in cancer
therapy | Biomedical Nanomaterials | NanoTechnology for environment protection**

Session Chair: Ewa-Kicko Walczak, Institute for Engineering of Polymers Materials and Dyes, Poland

Session Chair: Alexander Soldatov, Southern Federal University of Russia, Russia

Session Introduction

Panel Discussion

10:40-11:00 Title: Smart organic-inorganic hybrid nanomaterials. Design and functionality
Dr Nekane Guarrotxena, ICTP-CSIC, Spain

Networking and Refreshments Break: 11:00-11:20 @ Foyer

11:20-11:40 Title: Low power Up-conversion Nano-Materials for Solar Applications and Bio-theranostics

Angelo Monguzzi, Università degli Studi Milano-Bicocca, Italy

11:40-12:00 Title: Synchrotron Based Picoscale Local Atomic Structure Characterization of Advanced Nanomaterials for Nano-Bio-Med Applications

Alexander Soldatov, Southern Federal University of Russia, Russia

12:00-12:20 Title: Novel magnetically separable nanocomposites as visible-light-driven photocatalysts with highly enhanced activity

Aziz Habibi-Yangjeh, University of Mohaghegh Ardabili, Iran

12:20-12:40 Title: Nanofabrication strategies for influencing biomolecule behavior
P Guida, University of Genoa, Italy

12:40-13:00 Title: Geometry Induced Doping in Thin Si Nano-grating Layers

Mikheil Mebonia, Peter Grünberg Institut PGI, Germany

13:00-13:20 Title: Research on nano-particle film preparation having a flexible magnetothermal response and good biocompatibility

Fengguo Fan, Southeast University, P R China

Lunch Break: 13:20-14:00 @ Hotel Restaurants

14:00-14:20 Title: Comprehensive study of ZAIS Nanocrystals photo-physics

Gilles Le Blevenec, Univ Grenoble Alpes, France

14:20-14:40 Title: Polymeric nanochannels for studying DNA and for counting natural and engineered nanoparticles

Elena Angeli, University of Genova, Italy

14:40-15:00 Title: Removal of Dye Contaminants from Waste Water by Using Highly Cross-Linked Polymer as Novel Adsorbant

Cansel Tuncer, Eskisehir Osmangazi University, Turkey.

15:00-15:20 Title: Albumin-Gold Nanorods Based Core-Shell Nanoplatfoms for Cancer Theranostics

Hsien-Ting Chiu, National Tsing Hua University, Taiwan, R.O.C

15:20-15:40 Title: Conservation Of Historical Documents With Silver/Chitosan Nanocomposite

Güncem Özgün Eren, Yıldız Technical University, Turkey.

15:40-16:00 Title: Synthesis and Characterization of Superparamagnetic Colloidal Nanoparticles for Theranostics in Oncology

Elena Kuchma, Southern Federal University, Russia.

Networking and Refreshments Break: 16:00-16:10 @ Foyer

Special Keynote Session

16:10-16:40 **Title: Energy harvesting form solar light by nano structural controlled iron oxide thin films**
Hitoshi Tabata, University of Tokyo, Japan

16:40-17:00 **Title: In-vitro Controlled Release of 5-FU Drug from a Stimuli-Responsive Microjel/Liposome Biomaterials at Different Temperature**
Damla Ülker, Eskisehir Osmangazi University, Turkey

17:00-17:20 **Title: Applications of nanotechnology in oil and gas industry**
Faseeh Ahmad Khan, DIT University, India

17:20-17:40 **Title: Skin permeation characterization for conjugated carboxymethyl-oligochitosan-carboxymethyl-5-fluorouracil nanoparticles**
Mazita Mohd Diah, iPROMISE, Malaysia

Poster Presentations @ Cassia

Poster Judge: Hitoshi Tabata, University of Tokyo, Japan

- NSC-01 **Title: Antigen encapsulated O-carboxymehtyl chitosan nanoparticles for vaccine delivery**
Natalia Marchesan Bexiga, Sao Paulo University School of Pharmaceutical Sciences, Brazil
- NSC-02 **Title: Single nanowire on graphene (SNOG) as an efficient, reproducible, and stable SERS-active platform**
Taejoon Kang, Korea Research Institute of Bioscience and Biotechnology (KRIBB), Korea
- NSC-03 **Title: Preparation of pyrenyl-based multifunctional nanocomposites for biomedical applications**
Eun-Kyung Lim, Korea Research Institute of Bioscience and Biotechnology, Korea
- NSC-04 **Title: Production of CdS Nanoparticles with Different Methods and Their Usage in Waste-Water Treatment**
Cansel Tuncer, Eskisehir Osmangazi University, Turkey
- NSC-05 **Title: Stimuli-Responsive Microjel/Liposome Hybrit Biomaterials For Controlled and Targeted Drug Release Applications**
Vural Butun, Eskisehir Osmangazi University, Turkey
- NSC-06 **Title: Dispersion of carbon nanotubes by (in) gemini surfactants solution**
Michalina Scupin, Adam Mickiewicz University, Poland
- NSC-07 **Title: Investigation of behavior of water protons in close proximity to Multiwalled Carbon Nanotubes coated by Gemini Surfactants**
Justyna Izykowska, Adam Mickiewicz University, Poland
- NSC-08 **Title: Investigation of morphology and stability of carbon nanomaterials dispersions with surfactants.**
Augustyn Moliński, Adam Mickiewicz University, Poland
- NSC-09 **Title: The study of electrostatic properties and dispersion quality of the aqueous solutions of carbon nanotubes with dimeric surfactants**
Jakub Zareba, Adam Mickiewicz University, Poland
- NSC-10 **Title: Ketoprofen –loaded nanoparticles PLGA – PEG conjugated with a peptide of ocular delivery**
Roberto Carlos González Pizarro, University of Barcelona, Spain
- NSC-11 **Title: Direct synthesis of hydrogen peroxide from hydrogen and oxygen over core-satellite nanocatalysts protected by a mesoporous silica shell**
Myung-gi Seo, Korea University, South Korea
- NSC-12 **Title: A new stitching Soft X-ray interference lithography technique**
Jun Zhao, Shanghai Institute of Applied Physics, P R China
- NSC-13 **Title: Polyacrylic Acid Coated PAMAM Dendrimer Nanocluster as a pH-Responsive Drug Delivery Vehicle for Targeted Therapy**
Tsu-An Yang, National Chiao Tung University, Taiwan
- NSC-14 **Title: Nano-Bio-Integration of Albumin-Gold Nanorods Laden Macrophage for Tumortropic Drug Delivery and Controlled Release in Cancer Therapy**
Hsien-Ting Chiu, National Chiao Tung University, Taiwan
- NSC-15 **Title: Electrospun Polystyrene (PS) Nanofibers Loaded with Polyvinylchloride (PVC) Particles for Crude Oil Spill Cleanup**
Mohamed Alazab Alnaqbi, United Arab Emirates University, United Arab Emirates
- NSC-16 **Title: Biopolymer nanocomposites based on poly(hydroxybutyrate-co- hydroxyvalerate) and WS2 inorganic nanotubes**
Mohammed Naffakh, Escuela Técnica Superior de Ingenieros Industriales (ETSII-UPM), Spain

NSC-17

Title: Novel electrospun composite nanofibres incorporating conducting polyaniline for wound healing applications

Panagiota Moutsatsou, Loughborough University, UK

NSC-18

Title: Cytotoxic effects and intracellular trafficking pathways of conjugates of AFP receptor binding domain with different charged PAMAM dendrimers in tumor cells

Nikita Yabbarov, A. Tsyb Medical Radiological Research Centre, Russia

NSC-19

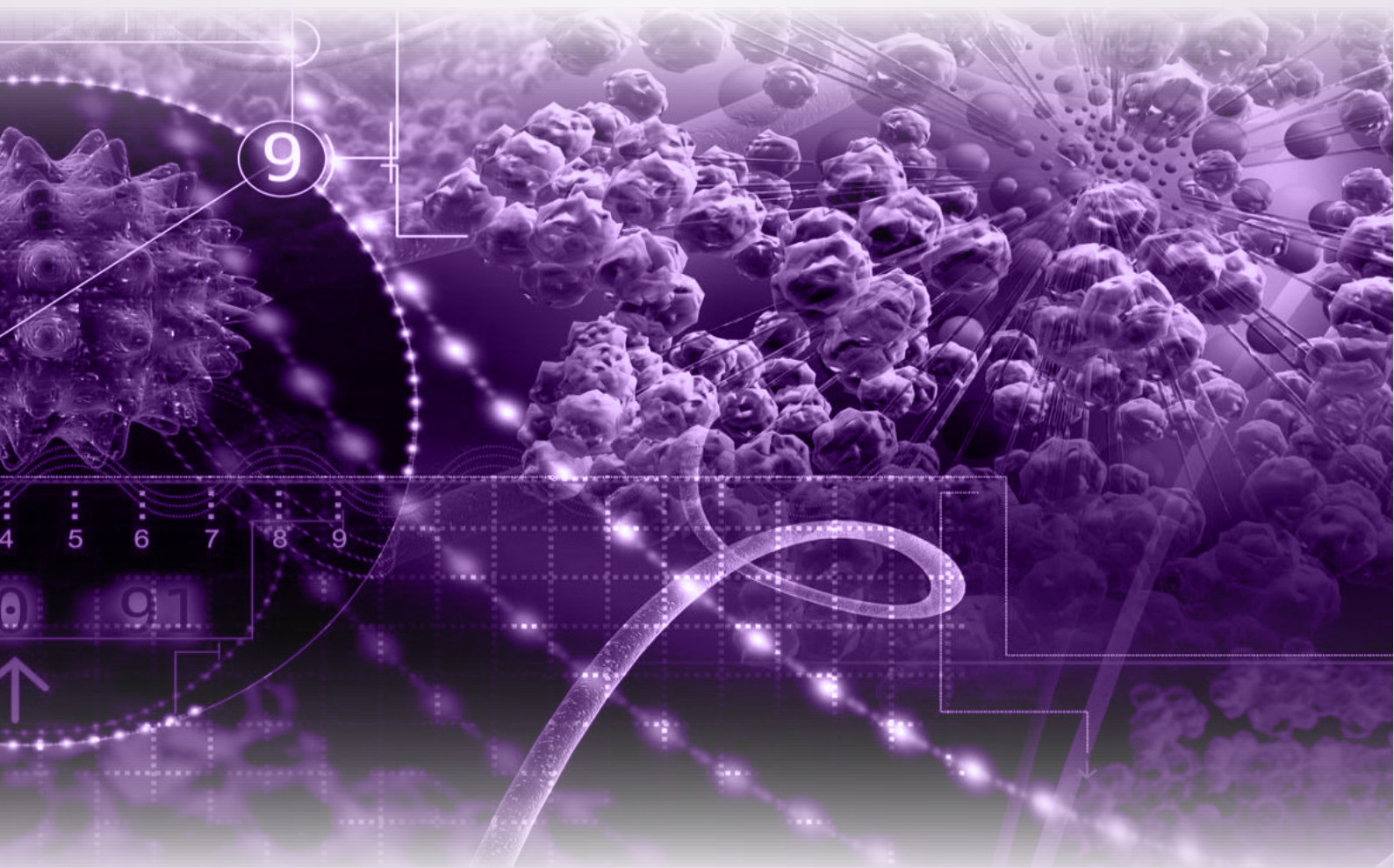
Title: Study of some effective parameters on characterization of gelatin nanofiber prepared from gelatin-acetic acid solution

Kooshina Koosha, Islamic Azad University, Iran

Day 3 October 22, 2016

Extended Networking and Lunch

Closing Ceremony



Bookmark your dates

22nd International Conference and Expo on

Nanoscience and Molecular Nanotechnology

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