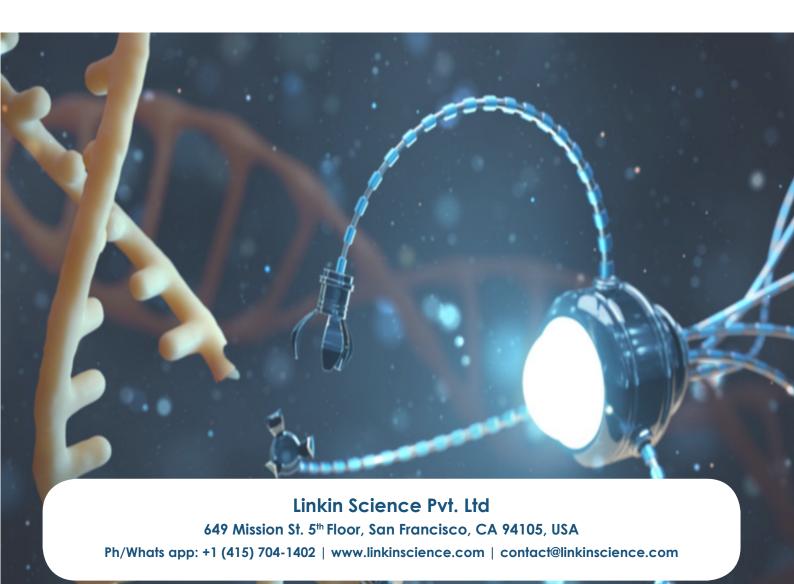


Scientific Program

Virtual Online Conference On Nanotechnology, Nanomedicne and Smart Materials

September 24, 2020



SCIENTIFIC PROGRAM

11:00-11:15 Welcome introduction of conference

Central European Summer Time Zone (CEST)

Keynote Sessions

11:15-11:50 Title: Organ on a chip in brain blood barrier

Monica Mir, Institute for Bioengineering of Catalonia IBEC, Spain

11:50-12:25 Title: Alzheimer's disease neuropathology is exacerbated following traumatic brain injury.

Neuroprotection by co-administration of nanowired mesenchymal stem cells and cerebrolysin

Hari Shanker Sharma, Uppsala University, Sweden

Oral Presentations

12:25-12:50 Title: Brain injury exacerbates neuropathology of sleep deprivation. Superior neuroprotection by co-administration of TiO₂-nanowired with alpha-MSH and cerebrolysin

Aruna Sharma, Uppsala University, Sweden

12:50-13:15 Title: Probing biocompatibility of theranostic nanoparticles: interaction between phosphocholine-decorated SPIONs and human serum proteins

Irene Russo Krauss, University of Naples Federico II, Italy

13:15-13:40 Title: Spatial defects nanoengineering for bipolar conductivity in MoS₂

Annalisa Calo, Institute for Bioengineering of Catalonia IBEC, Spain

13:40-14:05 Title: Analysis of the effect of the activation process on the development of the porous structure

Mirosław Kwiatkowski, AGH University of Science and Technology, Poland

14:05-14:30 Title: Tuning polyelectrolyte nanoparticles for biomedical applications

Marjan Motiei, Tomas Bata University in Zlín, Czech Republic

Break Out Session/ Networking Lounge 20 mins

Poster Presentations

14:50-15:05 Title: Sub-10 nm resolution patterning of pockets for enzyme immobilization via tc-SPL

Annalisa Calo, Institute for Bioengineering of Catalonia IBEC, Spain

15:05-15:20 Title: Toxicity behavior of nanomaterials detected by atomic force spectroscopy

Agnieszka Kolodziejczyk, Bionanopark Ltd, Poland

15:20-15:35 Title: Limitation of XTT tests for cells exposed to autoclaved silver nanoparticles

Aleksandra Zimon, Bionanopark Ltd, Poland

15:35-15:50 Title: Biomedical applications of degradable and Non degradable polymers Idowu David Ibrahim, Tshwane University of Technology, South Africa

15:50-16:05 Title: Flexible Nanocomposite Based Capacitive Sensor for tactile pressure

Divya Vennu, University of Concepcion, Chile

16:05-16:20 Title:Development and permeability evaluation through BBB-on-a-chip model of Gold nanorods with therapeutic potential for Alzheimer's disease

Sujey Palma, Institute for Bioengineering of Catalonia IBEC, Spain

Break Out Session/ Networking Lounge 15 mins

Special Session

16:35-16:45 Title: Title: RESET POINT - Take a Break Jelena Helene Cvejic, University of Novi Sad, Serbia

Oral Presentations

16:45-17:10 Title: Structure-Property Correlations of Nanocomposites Based Perovskites with Superior Electro-Optic Sensitivity

Radhamanohar Aepuru, University of Concepcion, Chile

17:10-17:35 Title: Biological cell as controlled safe nuclear nano-reactor (justification and successful experiments on transmutation of stable and radioactive isotopes in biological systems)

Vladimir Vysotskii, Kiev National Shevchenko University, Ukraine

17:35-18:00 Title: Nanoparticles: Remarkable Future for Oilfield Applications
Ravi Shankar Kumar, Rajiv Gandhi Institute of Petroleum Technology, India

18:00-18:25 Title: Carbon nanotubes and nanoparticles as an efficient electrochemical sensor for the analysis of calcium channel blockers

Ratnesh Das, Dr. Harisingh Gour University, India

18:25-18:50 Title: The phase transition of the borophene sheet: A reactive molecular dynamic simulation

Jamal Davoodi, University of Zanjan, Iran

18:50-19:15 Title: Magnetic Nanoparticle by Laser Ablation for Medical Application
Antonio Morone, Italy