



**Linkin  
Science**

Exploring & Connecting Science

*Scientific Program*  
**Virtual Online Conference On Nanotechnology, Nanomedicine  
and Smart Materials**

September 24, 2020

**Linkin Science Pvt. Ltd**

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## 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 TiO<sub>2</sub>-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 MoS<sub>2</sub>**  
**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: 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