

# 6<sup>th</sup> Edition of Advancements on Lasers Optics & Photonics Hybrid Conference

October 08-10, 2024 | Naples, Italy  
Venue: Palazzo Salgar



HOSTING ORGANISATION

**Linkin Science Pvt. Ltd**

649 Mission St. 5th Floor, San Francisco, CA 94105, USA

Ph: +1 (415) 704-1402, [www.linkinscience.com](http://www.linkinscience.com)

[contact@linkinscience.com](mailto:contact@linkinscience.com)

09:30-10:00

## Welcome Introduction of Conference

10:00-10:30  
Keynote

Title: Nanowired delivery of cerebrolysin with mesenchymal stromal cells and monoclonal antibodies to neuronal nitric oxide synthase induce Neuroprotection in Alzheimer's disease neuropathology exacerbated by concussive head injury

**Hari Shankar Sharma**, *Uppsala University, Sweden* (Local Time: 10:00 AM-10:30 AM)

10:30-11:00  
Keynote

Title: Radiomics and Artificial Intelligence

**Hesham El Behairy**, *Unilabs, Saudi Arabia* (Local Time: 11:30 AM - 12:00 PM)

11:00-11:30  
Keynote

Title: Electrochemical implantable sensors for in situ monitoring inside the body

**Monica Mir**, *University of Barcelona, Spain* (Local Time: 11:00 AM - 11:30 AM)

11:30-11:50

Break Out Session/ Networking Lounge: 20 mns

11:50-12:20  
Keynote

Title: Nanowired delivery of cerebrolysin together with monoclonal antibodies to amyloid beta peptide, phosphorylated tau and tumor necrosis factor alpha induces superior neuroprotection in Alzheimer's disease brain pathology exacerbated by sleep deprivation

**Aruna Sharma**, *Uppasala University, Sweden*, (Local Time: 11:50 AM - 12:20 PM)

12:20-12:45  
Oral Talk

Title: Orbital Motion of Gold Heterodimer Driven by Circularly Polarized Light

**Kuo Mao Kuen**, *Institute of Applied Mechanics, National Taiwan University, Taiwan*,  
(Local Time: 6:20 PM - 6:45 PM)

12:45-13:10  
Oral Talk

Title: Hierarchical mordenite zeolite prepared using soft-templating synthesis for cyclic acetals production via acetylation of glycerol and benzaldehyde

**Eng-Poh Ng**, *Universiti Sains, Malaysia* (Local time: 6:45 PM - 7:10 PM)

13:10-13:25  
Poster  
Presentation

Title: Multifocal kinoform diffractive lenses based on the aperiodic Silver Mean sequence

**Walter D. Furlan**, *Universitat de València, Spain* (Local time: 1:10 PM - 1:25 PM)

13:25-14:05

Lunch Session/Networking Lounge 40 mins

14:05-14:35  
Keynote

Title: Exploring the impact of nanomaterials' morphology in cell viability assays

**Paulo Cesar De Moraes**, *University of Brasilia, Brazil* (Local Time: 9:05 AM-9:35 AM)

14:35-15:05  
Keynote

Title: Machine learning algorithms for surface plasmon resonance bio-detection applications, A short review

**Malathy Batumalay**, *INTI International University, Malaysia* (Local Time: 8:35 PM - 9:05 PM)

15:05-15:35  
Keynote

Title: Metrology-Characterization of Precision Optics for Laser Applications

**RamaGopal V Sarepaka**, *Optics & Allied Engg Pvt.Ltd, India* (Local Time: 6:35 PM-7:05 PM)

15:35-15:55

Break out Session: 20 mins

15:55-16:20  
Oral Talk

Title: Multi-modal AI for Translational Research & Precision Medicine

**Alan Jerusalemi**, *Bio-AI Health, USA* (Local Time: 8:55 AM - 9:20 AM)

16:20-16:45  
Oral Talk

Title: Rethinking Post-Operative Delirium Prevention: A Precision Medicine Approach

**Sarita Khemani**, *Stanford University School of Medicine, USA* (Local Time: 7:20 AM- 7:45 AM)

16:45-17:10  
Oral Talk

Title: Stem Cell Research in Human Longevity

**Deven Patel**, *GIOSTAR, USA* (Local Time: 7:45 AM - 8:10 AM)

17:10-17:35  
Oral Talk

Title: Use of mesenchymal stemcells for systemic illnesses

**Navneet Boddu**, *Therapeutic Solutions International Inc, USA* (Local Time: 8:10 AM - 8:35 AM)

17:35-18:00  
Oral Talk

Title: Human umbilical cord-derived mesenchymal stem cells in combination with small extracellular vesicles improve survival and dramatically reduce fibrosis and cirrhosis in Wistar rats receiving CCL4

**Navneet Boddu**, *Therapeutic Solutions International Inc, USA* (Local Time: 8:35 AM - 9:00 AM)

18:00-18:30  
Keynote

Title: Role of stem cells in Neural and hematopoietic diseases

**Anand Srivastava**, *GIOSTAR, USA* (Local Time: 9:00 AM - 9:30 AM)

## Day 2 October 09, 2024

09:30-10:00

### Welcome Introduction of Conference

10:00-10:25  
Oral Talk

Title: Opportunities in digital biomarkers exacerbated by concussive head injury

**Nardev Ramanathan**, *Lux Research, Singapore* (Local Time: 04:00 PM - 04:25 PM)

10:25-10:50  
Oral Talk

Title: Recent advances in optimum stable pulsed fiber lasers

**Haroon Asghar**, *National Centre for Physics, Pakistan* (Local Time: 01:25 PM - 01:50 PM)

10:50-11:15  
Oral Talk

Title: Azodye photoaligned nanolayers: new liquid crystal technology

**Chigrinov Vladimir**, *Hong Kong University of Science & Technology, Hong Kong*

(Local Time: 4:50 PM - 5:15 PM)

11:15-11:35

Break out Session: 20 mins

11:35-12:00  
Oral Talk

Title: Properties of Manganites Under Extreme Conditions of High Pressure, Low Temperature and High Magnetic Field

**Thiyagarajan Raman**, *Indian Institute of Technology Madras, India* (Local Time: 3:05 PM - 3:30 PM)

12:00-12:20  
YRF

Title: Effect of Light on Postharvest Storage of Leafy Vegetables

**Shilpi Agarwal**, *JNU, India* (Local Time: 3:30 PM - 3:50 PM)

- 12:20-12:40  
YRF  
Title: Clinical Engineering Student Experience  
**Mostafa Atef Yones**, *Higher Technology Institute, Egypt* (Local Time: 1:20 PM - 1:40 PM)
- 12:40-13:05  
Oral Talk  
Title: Comprehensive omics analysis reveals treatment-induced tumor microenvironment alterations in bladder cancer  
**Marianna Kruithof-de Julio**, *University of Bern, Switzerland* (Local Time: 12:40 PM- 1:05 PM)
- 13:05-13:45  
Lunch Session/Networking Lounge 40 mins
- 13:45-14:15  
Keynote  
Title: AI-Enhanced Design of a Compact Four-Channel Silicon Nitride MMI WDM Multiplexer for Energy-Efficient O-Band Data Transmission  
**Dror Malka**, *Holon Institute of Technology (HIT), Israel* (Local Time: 2:45 PM - 3:15 PM)
- 14:15-15:15  
Special Session  
Title: Overview of Pulse Measurement  
**Rick Trebino**, *Georgia Institute of Technology, USA* (Local Time: 8:15 AM - 9:15 AM)
- 15:15-15:45  
Keynote  
Title: Re-inventing the Lecture—Physics Education Innovation  
**Rick Trebino**, *Georgia Institute of Technology, USA* (Local Time: 9:15 AM - 9:45 AM)
- 15:45-16:05  
Break out Session: 20 mins
- 16:05-16:25  
Poster Presentation  
Title: The Impact of Reducing Dimethyl Sulfoxide (DMSO) from 10% to 5% on The Viability of CD34 Hematopoietic Stem Cells After Cryopreservation  
**Rawan Aldubaian**, *King Faisal Specialist Hospital and Research Center, Saudi Arabia*  
(Local Time: 05:05 PM - 05:25 PM)
- 16:25-16:50  
Oral talk  
Title: Development of a Novel Lung Metastasis Model for Multiresistant HER2-Positive Breast Cancer: Comparative Efficacy of Anti-HER2 Antibody-Drug Conjugates  
**Narjes Yazdi**, *Helsinki University, Finland* (Local Time: 05:25 PM - 05:50 PM)
- 16:50-17:05  
YRF  
Title: The Future of Endoscopy: Leveraging Artificial Intelligence for Improved Disease Detection and Patient Care  
**Ahmed Elhossary**, *Higher Technological Institute, Egypt* (Local Time: 5:50 PM - 6:05 PM)
- 17:05-17:25  
Oral talk  
Title: Preclinical study of tetrahydrocurcumin loaded lipidic nanoparticles incorporated into tacrolimus ointment: In vitro and in vivo safety study  
**Komal Saini**, *Panjab University, India* (Local Time: 8:35 PM - 8:55 PM)
- 17:25-17:50  
Oral talk  
Title: A Novel THC-Tacro Ointment for Atopic Dermatitis: Synergistic Antioxidant and Anti-Inflammatory Effects through Nanoparticle Delivery  
**Vandita kakkar**, *Panjab University, India* (Local Time: 8:55 PM - 9:20 PM)

## Closing Ceremony