

**6<sup>th</sup> Edition of**  
**Nanotechnology, Nanomedicine,**  
**and Material Science Hybrid Conference**  
**(Onsite & Online)**

OCTOBER 02-04, 2023 | AMSTERDAM, NETHERLANDS

VENUE: PARK PLAZA AMSTERDAM AIRPORT



HOSTING ORGANIZATION

**Linkin Science Pvt. Ltd**

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## Day 1 October 02, 2023

09:30-10:00

### Welcome Introduction of Conference

10:00-10:30

Keynote

Title: Stress induced exacerbation of Alzheimer's disease brain pathology is thwarted by co-administration of nanowired cerebrolysin and monoclonal antibodies to amyloid beta peptide with serotonin 5-HT<sub>6</sub> receptor antagonist SB-399885\*

**Hari Shankar Sharma**, Uppsala University, Sweden

10:30-11:00

Keynote

Title: Sleep deprivation enhances amyloid beta peptide, p-tau and serotonin in the brain. Neuroprotective effects of nanowired delivery of cerebrolysin with monoclonal antibodies to amyloid beta peptide, p-tau and serotonin

**Aruna Sharma**, Uppsala University, Sweden

11:00-11:30

Oral

Title: Experimental measurements of the decay coefficient of a phononic metamaterial

**Jesús Arriaga**, Universidad Autónoma de Puebla, Mexico

11:30-11:45

Break Out Session/ Networking Lounge: 15 mns

11:45-12:15

Keynote

Title: The roles of HCO<sub>3</sub><sup>-</sup>/CO<sub>3</sub><sup>2-</sup> in catalytic oxidation processes

**Dan Meyerstein**, Ariel University, Israel

12:15-12:45

Keynote

Title: Point-of-Care Technologies (POCT) for Healthcare & Wellbeing Applications

**Aurel Ymeti**, Nanoalmyona BV, Netherlands

12:45-13:15

Oral

Title: Lasing in Tin-based perovskites

**Juan Martínez Pastor**, University of Valencia, Spain

13:15-13:55

Lunch Break/ Networking Lounge: 40 mns

13:55-14:25

Oral

Title: Inferring dendritic and cortical neuronal assemblies during visual learning revealed with 3D random access microscopy

**Gergely Szalay**, Laboratory of 3D functional network and dendritic imaging, Institute of Experimental Medicine, Hungary

14:25-14:40

Poster

Title: Generation of Nonevanescent Diffraction-less 2D Beams with Subwavelength Widths in High-refraction-index Media

**S.V. Kukhlevsky**, University of Pecs, Hungary

14:40-15:10

Keynote

Title: Food and economy

**Elvira Lo**, U.S. Secretary of Commerce as Council Member for Hawaii Pacific Export Council, USA

15:10-15:25

Break Out Session/ Networking Lounge: 15 mns

15:25-15:55  
Keynote

Title: Molecular Studies on the role of Copper, Zinc and Iron in ageing brain and related disorders

**Jagannath Rao**, KLEF Deemed to be University, India (Local Time: 6:55 PM- 7:25 PM)

15:55-16:25  
Keynote

Title: Studies on the role nutrition in Romantic Linguistics and Sexual Medicine: Current and future challenges

**Pavani A**, KLEF Deemed to be University, India (Local Time: 7:25 PM- 7:55 PM)

16:25-16:55  
Keynote

Title: Neuro Nutrition in relevance to Alzheimer's Disease: Theoretical modeling and meta data analysis

**M. Vasuja Devi**, KLEF Deemed to be University, India (Local Time: 7:55 PM- 8:25 PM)

16:55-17:10  
Oral

Title: Millet-Based Designer Brain Foods for Healthy Aging

**Lakshmi Sowmya Emani**, KLEF Deemed to be University, India (Local Time: 8:25 PM- 8:40 PM)

17:10-17:30  
Oral

Title: Nutrient Intakes and Adequacy among preschooler children under blockade in Gaza City, Palestine

**Samir Radi**, Israa University, Palestine (Local Time: 6:10 PM- 6:30 PM)

17:30-17:50  
Oral

Title: Updated Health & Malnutrition status in the Gaza strip

**Reham Mamdouh El Boji**, Israa University, Palestine (Local Time: 6:30 PM- 6:50 PM)

## Day 2 October 03, 2023

09:30-10:00

### Welcome Introduction of Conference

10:00-10:30  
Keynote

Title: Microbottle resonator for humidity sensing

**Malathy Batumalay**, INTI International University, Malaysia (Local Time: 4:00 PM- 4:30 PM)

10:30-10:50  
Oral

Title: Integrating Raman Spectroscopy, Machine Learning, and Advanced Data Preprocessing techniques for Chinese Handmade Paper Classification and Identification

**Chunsheng Yan**, State Key Laboratory of Modern Optical Instrumentation and Zhejiang University Library, China (Local Time: 4:30 PM-4:50 PM)

- 10:50-11:20  
Keynote
- Title: Novel Optical Surfaces in High Energy Laser System Development. A Case Study.
- RamaGopal Sarepaka**, President, R&D Ops & DTM, IR Optics, Optics & Allied Engg.Pvt.Ltd., India (Local Time: 2:20 PM-2:50 PM)
- 11:20-11:40  
Oral
- Title: Harnessing light for food security
- Shilpi Agarwal**, Optics and Photonics Laboratory, School of Physical Sciences, Jawaharlal Nehru University, India (Local Time: 2:50 PM-3:10 PM)
- 11:40-12:10  
Keynote
- Title: The next generation specialty optical fibers for high power fiber laser, amplifier and broadband sources
- Mukul Chandra Paul**, CSIR-Central Glass and Ceramic Research Institute, India (Local Time: 3:10 PM-3:40 PM)
- 12:10-12:25
- Break Out Session/ Networking Loung: 15 mns
- 12:25-12:45  
Oral
- Title: Metalenses for augmented reality based on polychromatic guided mode resonance
- Giovanni Magno**, Politecnico di Bari, DEI - Dipartimento di Ingegneria Elettrica e dell'Informazione, Italy (Local Time: 12:25 PM-12:45 PM)
- 12:45-13:15  
Keynote
- Title: Computational Photonics: Current status and trends
- Prof. Salah Obayya**, Center for Photonics and Smart Materials at Zewail City of Science and Technology, Egypt (Local Time: 1:45 PM-2:15 PM)
- 13:15-13:45  
Keynote
- Title: In vitro blood-brain barrier model for drug brain permeability testing
- Monica Mir**, University of Barcelona, Spain (Local Time: 1:15 PM-1:45 PM)
- 13:45-14:05  
Oral
- Title: Enhancement of Photocatalytic Capability of g-C<sub>3</sub>N<sub>4</sub> by Heterojunction Creation Aiming H<sub>2</sub> Evolution via Water Splitting
- Fatemeh Sousani**, Sharif University of Technology, Iran (Local Time: 3:15 PM-3:35 PM)
- 14:05-14:35
- Lunch Break/ Networking Lounge: 30 mns
- 14:35-14:55  
Oral
- Title: Evaluation of Tetrahydrocurcumin-Loaded Lipidic Nanoparticles Incorporated within Tacrolimus Ointment: In Vitro and In Vivo Assessment.
- Vandita Kakkar**, Punjab University, India (Local Time: 6:05 PM-6:25 PM)
- 14:55-15:15  
Oral
- Title: Application of Artificial Intelligence in Plastics Recycling
- M S Sureshkumar**, Narasimha Reddy College of Engineering, India (Local Time: 6:25 PM-6:45 PM)

15:15-15:25 Title: Synthesis Design and Anti-inflammatory Activity of Novel 5-(Indol-3-yl)-  
Poster thiazolidinone Derivatives

**Ibrahim Nassar**, Ain Shams University, Egypt (Local Time: 4:15 PM-4:25 PM)

15:25-15:55 Title: Mathematical modeling nanocargo biodistribution in solid tumors: The  
Keynote core-shell approach

**Paulo Cesar De Morais**, University of Brasília, Brazil (Local Time: 10:25 AM-10:55 AM)

15:55-16:15 Title: Monomethyl branched-chain fatty acids are critical for *Caenorhabditis*  
Oral *elegans* survival in elevated glucose conditions

**Andre Vieira**, Worcester Polytechnic Institute, USA (Local Time: 9:55 AM-10:15 AM)

16:15-16:30 Break Out Session/ Networking Lounge: 15mns

16:30-17:00 Title: Doping mechanisms and applications of novel organic semiconductors : A  
Keynote tale of two charge transfer states

**Bharati Neelamraju**, University of Arizona, USA (Local Time: 7:30 AM-8:00 AM)

17:00-17:20 Title: XRD and Raman experiments under extreme condition of High Pressure  
Special (HP)  
Session

**Thiyagarajan Raman**, Indian Institute of Technology (IITM), India (Local Time: 8:30 PM-8:50 PM)

17:20-17:40 Title: Characterization of birefringence with elliptic eigenmodes in a wave  
Oral biplate composed of two quarter-wave plates.

**Jhon Stivenson Pabón Niño**, Universidad industrial de Santander, Colombia (Local Time: 10:20 AM-10:40 AM)

17:40-18:00 Title: Laser-Assisted Materials Processing from the Melt  
Oral

**Marcello Andreetta**, Universidade Federal de São Carlos - UFSCar, Brazil (Local Time: 12:40 PM- 1:00 PM)

18:00-18:20 Title: Time resolved electric field-induced second harmonic generation imaging  
Oral from organic thin-film devices

**Payal Bhattacharya**, MKS Instruments, USA (Local Time: 11:00 AM-11:20 AM)

18:20-18:40 Title: Coherent sources for quantum entanglement  
Oral

F.J.Duarte, Interferometric Optics, USA (Local Time: 12:20 PM-12:40 PM)

## Day 3 October 04, 2023

09:30-10:00

### Welcome Introduction of Conference

09:40-10:10  
Keynote

Title: Diodes and infrared detectors based on black phosphorus/carbon nanotube heterojunctions

**Changxin Chen**, Shanghai Jiao Tong University, China (Local Time: 3:40 PM-4:10 PM)

10:10-10:25  
YRF

Title: Influence of laser plasma parameters on the formation of nanoscale structures on metal surfaces

**Murodbek Vapaev**, Urgench State University, Uzbekistan (Local Time: 1:10 PM-1:25 PM)

10:25-10:35  
Poster

Title: Entanglement Dynamics of a Ladder-type Atom and Its Spontaneous Emission Fields

**Vahideh Tahmoorian**, Research Institute for Applied Physics and Astronomy, Iran (Local Time: 11:55 AM-12:05 PM)

10:35-10:55  
Oral

Title: New Liquid Crystal Display and Photonics Devices based on photoalignment

**Vladimir G. Chigrinov**, Hong Kong University of Science and Technology, Hong Kong (Local Time: 4:35 PM-4:55 PM)

10:55-11:15  
Oral

Title: Sandwich-type Coatings Comprising Conventional and Smart Materials. Resonant Blinding (Radiation) and Hiding (Absorption)

**Kostyantyn Sirenko**, O.Ya. Usikov Institute for Radiophysics and Electronics, National Academy of Sciences, Ukraine (Local Time: 11:55 AM-12:15 PM)

11:15-11:35  
Oral

Title: Defect detection technology for optical transparent metallic mesh thin films

**Zhengang Lu**, Ultra-Precision Optical & Electronic Instrument Engineering Center, Harbin Institute of Technology, China (Local Time: 5:15 PM-5:35 PM)

11:35-12:00

Break Out Session/ Networking Lounge: 25mns

12:00-12:10  
Poster

Title: Study of photobiomodulation in the skin inflammatory process after fractional CO<sub>2</sub> laser in rats

**Érika Vassolér Guerrero Puccia**, UNNINOVE, Brazil (Local Time: 7:00 AM-7:10 AM)

12:10-12:25  
Oral

Title: Effect of photobiomodulation therapy on the reduction of the inflammatory process and pain control in an experimental model of induced rheumatoid arthritis

**Patricia de Viveiros Tavares**, UNNINOVE, Brazil (Local Time: 7:10 AM-7:25 AM)

- 12:25-12:35  
Poster  
Title: Effect of Local and Systemic photobiomodulation in an experimental model of osteopenia in ovariectomized rats  
**Giovana Gleice da Silva Santos**, UNNINOVE, Brazil (Local Time: 7:25 AM-7:35 AM)
- 12:35-12:45  
Poster  
Title: Efficacy of 8% and 16% methyl aminolevulinate topic application followed by two red light irradiation regimens in the treatment of facial actinic keratoses: a randomized controlled clinical protocol  
**Ricardo Hideyoshi Kitamura**, UNNINOVE, Brazil (Local Time: 7:35 AM-7:45 AM)
- 12:45-12:55  
Poster  
Title: Effects of photobiomodulation on ovarian function in an experimental model of polycystic ovary syndrome in rats  
**Aline Tadeu Figueiredo Salu Catoia**, UNNINOVE, Brazil (Local Time: 7:45 AM-7:55 AM)
- 12:55-13:05  
Poster  
Title: Study of photobiomodulation in the skin collagen production after fractional CO2 laser in rats  
**Roberta Bueno**, UNNINOVE, Brazil (Local Time: 7:55 AM-8:05 AM)
- 13:05-13:15  
Poster  
Title: Combination of photobiomodulation therapy and hyaluronic acid in an invitro model of photoaging in keratinocytes and fibroblasts  
**Silmara Brasileiro Quaresma**, UNNINOVE, Brazil (Local Time: 8:05 AM-8:15 AM)
- 13:15-13:25  
Poster  
Title: Evaluation of the blue LED on the L929 fibroblast cell viability  
**Aline Souza Silva**, UNNINOVE, Brazil (Local Time: 8:15 AM-8:25 AM)
- 13:25-13:35  
Poster  
Title: The effect of photobiomodulation therapy combined with carbon material impregnated with silver nanoparticles on infection control and repair in a brain injury model  
**Drielli Viana Souza**, UNNINOVE, Brazil (Local Time: 8:25 AM-8:35 AM)
- 13:35-13:45  
Poster  
Title: Randomized, double-blind, parallel, non-inferiority clinical trial for comparison between therapy with Easotic® versus photobiomodulation in canine otitis externa  
**Flaviana Amado Martins**, UNNINOVE, Brazil (Local Time: 8:35 AM-8:45 AM)
- 13:45-13:55  
Poster  
Title: Impact of vascular photobiomodulation on collagen deposition and distribution in an experimental model of acute muscular injury  
**Raquel Silva**, UNNINOVE, Brazil (Local Time: 8:45 AM-8:55 AM)
- 13:55-14:05  
Poster  
Title: The effect of photobiomodulation associated with disodium dexamethasone phosphate on the expression of inflammatory cytokines and nitric oxide in activated M1 profile macrophages  
**Rosani Silva**, UNNINOVE, Brazil (Local Time: 8:55 AM-9:05 AM)



14:05-14:30

Break Out Session/ Networking Lounge: 25mns

14:30-14:50

Oral

Title: Biophotonic assesment and diagnosis criteria of foreign body reaction due to bioploymers and laser treatment on gluteal and facial region. A pilot study of clinical cases.

**Jose Maria Aguilera**, UNNINOVE, Brazil (Local Time: 9:30 AM-9:50 AM)

14:50-15:00

Poster

Title: Effects of pompage technique, whether combined or not with LED Photobiomodulation, on Pain and Disability in Patients with Chronic Neck Pain: A Protocol for a Controlled, Randomized and Blind Study

**Denise Cekaunaskas Kalil Lauand**, UNNINOVE, Brazil (Local Time: 9:50 AM-10:00 AM)

15:00-15:10

Poster

Title: Exploring Thyroid Hormone Regulation in Skin Cells: Insights from Gene Expression Databases

**Israel Viana Mendes**, Universidade Nove de Julho (UNINOVE), Brazil (Local Time: 10:00 AM-10:10 AM)

15:10-15:30

Oral

Title: Multi-Layer Polaronic Nondispersing Trojan-Like Wavepackets on Langmuir Type-(2) Click-Clack Balls Trajectories in Helium Atom and Quantum Dots

**Prof. Matt Kalinski**, Utah State University, USA (Local Time: 7:10 AM-7:30 AM)

## Closing Ceremony

*We wish to meet you  
again at our upcoming conference*

HOSTING ORGANIZATION

**Linkin Science Pvt. Ltd**

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