

5th Edition of

Advancements in Lasers, Optics & Photonics Hybrid Conference (Onsite & Online)

OCTOBER 02-04, 2023 | AMSTERDAM, NETHERLANDS

VENUE: PARK PLAZA AMSTERDAM AIRPORT



HOSTING ORGANIZATION

Linkin Science Pvt. Ltd

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

Ph: +1 (415) 704-1402, www.linkinscience.com

contact@linkinscience.com

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-HT₆ 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 HCO₃⁻/CO₃²⁻ 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-C3N4 by Heterojunction Creation Aiming H2 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

09:50-10:10
Oral

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

Changxin Chen, Shanghai Jiao Tong University, China (Local Time: 3:50 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 CO₂ 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

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

Ph: +1 (415) 704-1402 | www.linkinscience.com | contact@linkinscience.com