

# SCIENTIFIC PROGRAM



Joint Event on

## **ADVANCES IN MEDICINAL CHEMISTRY AND PHARMACOLOGY**

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## **INNOVATIONS IN DRUG DISCOVERY, DEVELOPMENT & DELIVERY**

April 03-04, 2025 | Amsterdam, Netherlands

# SCIENTIFIC PROGRAM

# DAY 01

THURSDAY

APRIL 03, 2025

08:00-08:30

**Registrations**

08:30-08:40

**Inaugural Ceremony**

**Moderator**

**Andreas M Papas**, *Antares Health Products Inc., East Tennessee State University, USA*

**Sessions: Medicinal Chemistry | Drug Discovery, Design and Development | Novel Drug Delivery Systems | Computer Aided Drug Design | Pharmacogenomics and Personalized Medicine | Orphan Drugs and Rare Diseases | Molecular Docking and Computational Drug Design | Biologics and Biosimilars | Drug Safety and Pharmacovigilance | Personalized Therapies | Pharmacogenomics | Toxicology**

**Session Chair**

**André Mauricio de Oliveira**, *Federal Centre of Technological Education of Minas Gerais (CEFET-MG), Brazil*

## Distinguished Speaker Talks

08:40-09:05

Title: Aqueous Two-Phase Partitioning: Science and Applications for Biomarkers Discovery and Early Cancer Detection

**Boris Y. Zaslavsky**, *Cleveland Diagnostics, USA*

09:05-09:30

Title: Formulation and Delivery Applications of Vitamin E TPGS for Novel Drug Categories

**Andreas M Papas**, *Antares Health Products Inc., East Tennessee State University, USA*

09:30-09:55

Title: Topical Delivery of Drugs in the Treatment of High-Grade Cervical Squamous Intraepithelial Lesions: A Meta-Analysis

**Jianlan Zheng**, *Chenggong Hospital of Xiamen University, China*

09:55-10:20

Title: Hydroquinone-Free Skincare Treatment for Hyperpigmented and Photodamaged Facial Skin

**Sofia Iglesia**, *Revision Skincare, USA*

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10:20-10:45 Title: Environmental Conditions Actively Participate in Protein Folding Process

**Irena Roterman**, Jagiellonian University, Poland

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GROUP PHOTO 10:45-10:55

REFRESHMENT BREAK 10:55-11:15

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11:15-11:45 Title: Flaxseed: A Novel Approach to Enhanced Wound Healing

**Basma Ezzat Mustafa Alahmad**, International Islamic University Malaysia, Malaysia

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11:45-12:10 Title: NMR-Based Metabolomics and Biochemical Analyses as Tools for Precision Medicine in Fighter Pilots

**Grace Barros de Sá**, University of Rio de Janeiro State (UERJ), IBMR University Center, Brazil

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12:10-12:35 Title: Advanced Surface Plasmon Resonance (SPR) Assay Application for Preclinical Antiviral Drug Testing

**Petia Genova-Kalou**, National Centre of Infectious and Parasitic Diseases (NCIPD), Bulgaria

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12:35-13:00 Title: Development of a First-in-Class AUTOTAC Targeted Protein Degradator for Pathological Tau Aggregates in Tauopathies

**Chang Hoon Ji**, AUTOTAC Bio, Inc., Seoul National University, South Korea

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13:00-13:25 Title: Perfect State Transfer in a Quantum Biological System Based on the Davydov Model

**Elham Faraji**, Jülich Research Center, Germany

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GROUP PHOTO 13:25-13:35

LUNCH BREAK 13:35-14:15

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14:15-14:40 Title: Artificial Intelligence Enabled Nanosensors for Trace-Level Biomarkers Detection

**Ajay Agarwal**, Indian Institute of Technology Jodhpur (IITJ), India

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14:40-14:55 Title: DFT Investigation of the Antioxidant Capacity of Culinary Herbs Polyphenols

**André Mauricio de Oliveira**, Federal Centre of Technological Education of Minas Gerais (CEFET-MG), Brazil

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14:55-15:10	<p>Title: Evaluation of Multifunctional Hemorphins with Modifications at the N- and C-Terminal Regions for the Improvement of the Anticonvulsant Activity</p> <p><b>Jana D. Tchekalarova</b>, <i>University of Chemical Technology and Metallurgy, Bulgaria</i></p>
15:10-15:30	<p>Title: Cannabis Situation in Germany</p> <p><b>Jonas Michael Wilhelm Westphal</b>, <i>International Business Jurist and Author, Germany</i></p>
15:30-15:55	<p>Title: Mycobacterial ATP-Phosphoribosyl Transferase (HisG) Inhibition by The New Anti-TB Chemotypes Benzo[d]thiazole-2-carboxamides/ carbanilides</p> <p><b>Dhameliya Tejas Manjibhai</b>, <i>Nirma University, India</i></p>
15:55-16:20	<p>Title: Advancing Cancer Treatment: Leveraging Marine Polysaccharides for Enhanced Drug Delivery</p> <p><b>Jinu George</b>, <i>Sacred Heart College (Autonomous), India</i></p>
16:20-16:45	<p>Title: Quinoline-Hydroxamic Acid Inspired Dual Inhibitors of Topoisomerase-Histone Deacetylase: Design, Synthesis, <i>in vitro</i> and <i>in vivo</i> Anticancer Potential</p> <p><b>Raj Kumar</b>, <i>Central University of Punjab, India</i></p>
REFRESHMENT BREAK 16:45-17:05	
17:05-17:30	<p>Title: Tobacco Plant of Kyrgyzstan: A Valuable Crop for Biotechnology in Medicine</p> <p><b>Smailov Eltar Ablametovich</b>, <i>International Kyrgyz-Uzbek University named after B. Sydykov, Kyrgyzstan</i></p>
17:30-17:55	<p>Title: Innovative Nanotechnological Platforms for Drug Delivery Systems in Biomedical Applications</p> <p><b>Pramod K. Avti</b>, <i>Post Graduate Institute of Medical Education and Research (PGIMER), India</i></p>
17:55-18:20	<p>Title: The Brown Algae <i>Padina pavonica</i> Methanol and Hexane Partitions Showed Antidepressant Effects in Mice</p> <p><b>Negar Asgari</b>, <i>Isfahan University of Medical Sciences, Iran</i></p>

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18:20-18:45 Title: Antibacterial Activity of Silver Nanoparticles Derived from Extracellular Extract of *Enterococcus aerogenes* Against Dental Disease Bacteria Isolated

**Mohammed A. Abd Ali**, *Misan University, Iraq*

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18:45-18:55 Title: Discovery of Antibodies that Modulate Macrophage Functions in Boosting Cancer Immunotherapy

**Jianyong Wang**, *Genentech, USA*

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18:55-19:05 Title: Chitosane - Antibiotic Based Composites and their Application in Medicine

**Dilyana Todorova Zvezdova**, *Prof. Dr. Assen Zlatarov University, Bulgaria*

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19:05-19:15 Title: Social Determinants for the use of Complementary and Alternative Therapies among Women During Pregnancy, Labor and Postpartum Period in Low Income Countries: A Scoping Review

**Mabel Kefilwe M. Magowe**, *University of Botswana, Botswana*

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**NETWORKING**

END OF DAY 1

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# SCIENTIFIC PROGRAM

# DAY 02

FRIDAY

APRIL 04, 2025

08:50-09:00

## Introduction

Sessions: Medicinal Chemistry | Drug Discovery, Design and Development | Novel Drug Delivery Systems | Computer Aided Drug Design | Pharmacogenomics and Personalized Medicine | Orphan Drugs and Rare Diseases | Molecular Docking and Computational Drug Design | Biologics and Biosimilars | Drug Safety and Pharmacovigilance | Personalized Therapies | Pharmacogenomics | Toxicology

## Distinguished Speaker Talks

09:00-09:25

Title: Eliminating Infection Through Nanomedicine: 30,000 Human Cases and Still Counting

**Thomas J. Webster**, *Hebei University of Technology, China*

09:25-09:50

Title: A Randomized, Double-Blind, Placebo-Controlled Trial Assessing the Efficacy and Safety of a Fixed-Dose Combination (FDC) of METformin Hydrochloride 1000 mg ER, Sitagliptin Phosphate 100 mg and Dapagliflozin Propanediol 10 mg in Indian Adults with Type 2 Diabetes: The MESIDA Trial

**Akhilesh Sharma**, *Alkem Laboratories Mumbai, India*

09:50-10:15

Title: Electroencephalographic Guided Propofol-Remifentanyl TCI Anesthesia with and without Dexmedetomidine in a Geriatric Population: Electroencephalographic Signatures and Clinical Evaluation

**Fernando Zurita Delgado**, *Hospital Base San José, Chile*

10:15-10:40

Title: Evaluation of the Antimalarial Properties of *Solanum incanum* L. Leaf Extract Fractions and Its Ability to Downregulate Delta Aminolevulinic Acid Dehydratase to Prevent the Establishment of Malaria Infection

**Ogochukwu Caroline Chiamah**, *Alex Ekwueme Federal University Ndufu-Alike, Nigeria*

10:40-11:05

Title: *In vitro* Study of Sonodynamic Therapy using Gemcitabine-loaded PEG-Gold Nanoparticles Against MCF-7 Breast Cancer Cells

**Ahmad Shanei**, *Isfahan University of Medical Sciences, Iran*

11:05-11:30

Title: ACE-Dependent Alzheimer's Disease (AD)

**Sergei M. Danilov**, *University of Illinois at Chicago, USA*

SCIENTIFIC PROGRAM

DAY 02  
FRIDAY

APRIL 04, 2025

Exclusively for  
Virtual Speakers

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7<sup>th</sup> Global Summit on

# ADVANCES IN MEDICINAL CHEMISTRY AND PHARMACOLOGY

4<sup>th</sup> Premier Global Conclave and Expo on

# INNOVATIONS IN DRUG DISCOVERY, DEVELOPMENT & DELIVERY

April 2026 | London, UK