

【Event】

16th Asian Natural Products Conference (ANPC)

Biomass resources (Natural Products)

- medicine
- aroma
- dye
- food
- antibacterial
- cosmetics
- healing
- energy
- Materials
- Woody house

Life

- Biorefinery
- Woods Materials

【Overview】

The 16th Asian Natural Products Conference was held on August 31st, 2023. Six researchers from five countries including Egypt, China, USA, Japan, Taiwan, presented about natural product chemistry.

The presenters discussed about the emerging of recent approaches in natural products field like metabolomics and biotransformation also the utilization of medicinal plants in the area of drug discovery as well studying the interaction in biological system for inducing new secondary metabolites. In the end, they also explained the role of natural products as antiviral agents.

This meeting further revealed the value and potential of natural products in different aspects, and provided a new perspective for the development and research of natural products.

- **Concanavalin A (Con A)** is a plant lectin derived from *Canavalia ensiformis* Jack beans which induces a well-established AIH model in mice that simulates the pathophysiology of AIH disease in humans.
- A single intravenous dose of Con A in mice can initiate immune cell infiltration, mainly neutrophils, and T-cells, leading ultimately to liver inflammation and necrosis. The main T-cells involved in Con A-induced liver injury are CD4⁺ T-cells with their two subsets, T-helper Th-1 and Th-2 that produce different cytokines. TNF- α is the key cytokine of Th1, while IFN- γ and IL-6 are among the main cytokines of Th2.

A slide presented by Dr. Yhiya Amen

Conclusion In this study, we investigated the potential anti-pulmonary fibrosis effects of the natural compound specuazehenide (SPN) both *in vivo* and *in vitro*.

A slide presented by Mr. Yanliang Wu

Sea lamprey: The Vampire Fish

- Jawless, eel like fish parasites native to the Atlantic Ocean
- Invasive species in the Great Lakes of North America
- Attaches to the body of the fish and feeds on the blood and bodily fluids
- Huge economic loss to the fishing industry in the mid 1900s

A slide presented by Dr. Sonam Tamrakar

A slide presented by Mr. Moustafa Zohair

Introduction

- A virus is a small infectious organism—much smaller than a fungus or bacterium—that must invade a living cell to reproduce (replicate).
- The twenty-first century has witnessed a wave of severe infectious disease outbreaks, not least the COVID-19 pandemic, which has had a devastating impact on lives and livelihoods around the globe.
- Cocksackie B virus belongs to the Picornavirus family and can cause a variety of diseases, Cocksackie group B virus is responsible for several syndromes:
- Viral prodrome including fever, fatigue, malaise, myalgia, gastrointestinal upset such as nausea, vomiting, diarrhea and abdominal pain

A slide presented by Dr. Fahd Mohamed Amin

Flow chart of PDMA

Finding Candidate Precursors for New Glucosides by PDMA

A slide presented by Prof. TeSheng Chang

Future Vision :

International Natural Products Conference (INPC)



In the near future, we plan to start INPC and other branch conferences. We hope to expand our conference activities and make opportunities to have more collaborative research around the world.