

【Event】
18th Asian Natural Products Conference (ANPC)

【Overview】

The 18th Asian Natural Products Conference was held on Jan. 25th, 2024. Seven researchers from 5 countries including China, Egypt, Japan, Indonesia, Malaysia, presented about utilization of natural product.

The conference started with introduction from Delightex company about the bridging between the research and industry in the field of natural products. The conference covered wide area of natural product research starting with the role of Artificial intelligence in nature product, energy, and human neurophysiological activity as well as the cosmeceuticals properties and biological activity of traditional medicinal plants and microbial resources. Also, the biological activities of natural products from mushroom in Alzheimer's disease treatment. finally, the concluded remarks revealed the value and potential of natural products in different aspects, and provided a new perspective for the development and research of natural products.

Exploration & Evaluation:
 Research flow for identifying natural substance with DM potentials through scientific partners

Conclusion

Symmellisia sp. FKR-0921

Symmellistriol A (I)

$\Delta\delta$ values (= $\delta_S - \delta_R$; in ppm) obtained for (S) and (R)-MTPA esters of major isomer.

A slide presented by Delightex company

A slide presented by Dr. Tani Kazuki

Artificial Intelligence

machine learning supervised learning
 From input/output data
 Develop a predictive model

A machine learns based on the correct labels pre-assigned by training dataset and builds a model that predicts the response value for the dataset.

Aging and Alzheimer's Disease

- Aging, the leading risk factor for AD, causes an accumulation of senescent cells, which contributes to **chronic inflammation** via the senescence-associated secretory phenotype (SASP).
- Along with other genetic and/or environmental factors, aging-induced inflammation may increase the risk of AD.

A slide presented by Dr. Fadilla ZENNIFA

A slide presented by Mr. Ruan Yang

INTRODUCTION

- Lower plants
- Systematically placed between bryophytes and seed plant
- Lack of physical defense features
- Secondary metabolites play important role

Source: Thomson Higher Education, 2007

Silene succulenta Forssk.

- Caryophyllaceae family (2600 species in 80 genera) - Genus *Silene* (about 850 species) (Bonios, 1999)
- The genus is most diverse in the eastern parts of the Mediterranean Basin and in southwestern Asia (Moiola *et al.*, 2021), (Jafari *et al.*, 2020), (Mamadalieva *et al.*, 2014)
- S. succulenta* is a medicinal plant that has a cytotoxic effect on RAW 264.7 murine macrophage-like cells. (Ghoshine *et al.*, 2015)

A slide presented by Dr. NG SHEAN YEAW

A slide presented by Dr. Ahmed Ramadan Hassan

