

【Event】

17th Asian Natural Products Conference (ANPC)

【Overview】

The 17th Asian Natural Products Conference was held on November 9th, 2023. Eight researchers from five countries including China, Egypt, Japan, Indonesia, Malaysia, presented about utilization of natural products.

The presenters discussed about application of natural products as skin care agents as photoprotective and cosmeceuticals properties of traditional medicinal plants. The emerging of recent approaches in natural products field like electrogenic redoxing bacteria in skin microbiome also the utilization of medicinal plants in the area of drug discovery as well 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.

Cream Formulation

Sample	UVB Protection		UVA Protection		Critical Wavelength
	In vitro SPF (Dose = 400)	UVA ratio	Boat Star Rating	Category	
Cream Base B1	0.91 ± 0.03	0.055	-	No Claim	40.5 ± 155.63
Formulation F1 (5%)	1.36 ± 0.15 (50%)		**	Moderate	378.9 ± 2.20

UVB Protection: 290-320 nm, UVA Protection: 320-400 nm

The cream with 5% propolis water fraction (from the involucron) has a moderate Boat Star rating, offers "Broad Spectrum" coverage, and provides excellent UVA protection.

Summary & Discussion

At present, studies on the bioactive components of vanilla focus on vanillin and some flavonoids, while there are few studies on other components, among which there may be a high potential of biological activity.

Compound 1 and 2 were firstly isolated and identified in *Xyoponopsis* stems and leaves. As the major secondary metabolites however, there were few reports on the chemistry study and no studies at all on their biological activity, which has huge potential on study and development.

Xyoponopsis stems and leaves crude extract, and isolated compounds 1, 2 were considered to have a great potential of skin anti-aging. And compound 1, 2 promoted the ECM synthesis via downregulate the TGF-β/SMAD pathway.

Regarding the current study limitation about Vanilla species and compounds 1, 2, they still have great potential for research. We are still trying to study their other biological activities, hoping to give a more comprehensive study in the future.

A slide presented by Dr. Mohanasundarapand Ian

A slide presented by Ms. Wang duanyang

B- UVB-induced HaCaT cell damage assay

30 mJ/cm² with a fluorescent lamp that produced its highest energy output at 312 nm

Analysis Conducted

- Proximate analysis**: To analysis moisture content
- Fatty acid analysis**: To determine PUFA & MUFA content
- Amino acid analysis**: To calculate amino acid content
- Mineral & Heavy Metal Analysis**: To analysis mineral and heavy metal content
- Antioxidative Analysis**: (Total phenolic content, Total Flavonoid, FRAP) To analysis antioxidant capacity of *C. racemosa*
- In vivo anti-diabetic study**: To observe and analysis anti-diabetic ability of *C. racemosa*

A slide presented by Ms. Amira Alkattan

A slide presented by Dr. Thilaghavani Nagappan

Photoprotective Properties of Essential Oils from Traditional Medicinal Plants - An *Invitro* Analysis

Dr. Rameshkumar Santhanam
Senior Lecturer
Faculty of Science and Marine Environment
Universiti Malaysia Terengganu, Malaysia

Colonization of Nasal Cavities by *Staphylococcus epidermidis* Mitigates SARS-CoV-2 Nucleocapsid Phosphoprotein-induced Interleukin (IL)-6 in the Lung.

Microb Biotechnol. 2022 Jul;15(7):1984-1994.

A slide presented by Dr. Rameshkumar Santhanam

A slide presented by Prof. Eric Chun Ming Huang

