



PROMOTING ECOTOURISM THROUGH INNOVATION
AND DEVELOPMENT IN NATURAL PRODUCTS

The Regional Conference and Exhibition of Natural Products, Traditional Medicines and Herbs

*Promoting Ecotourism Through Innovations and Developments
in Natural Products*

9 - 11 December 2021

Borneo Convention Centre Kuching (BCKK) | Zoom (Hybrid)

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Introduction

This conference aims to bring together researchers, academicians and entrepreneurs in all areas and related fields of natural products, traditional medicines and herbs to share their research findings. It also serves as a platform to showcase the innovation and application of natural products, fostering interdisciplinary collaborations and identifying potential opportunities.

You can join the conference to present a paper orally or through posters. Alternatively, you can exhibit your products or submit a video of 2 minutes.

Scopes:

- Pharmacology (pharmacological activity, efficacy, interactions)
- Biochemistry (Biosynthesis, ethnopharmacology, ethnomedicines)
- Chemistry (Phytochemical analysis, biomarker identification, toxicological evaluation)
- Ethnobotany (Drug discovery)
- Quality Control and Quality Assurance
- Application & Product Development (Medical, biomedical, pharmaceutical, food, cosmetics, skincare)
- Sustainable Management of Natural Products (Production, development, environmental impacts and risk assessment)
- Socioeconomic and Demography (demographic analysis of natural product consumers)
- Sustainable Community-Based Natural Products
- Natural Products & Tourism

All selected papers will be peer reviewed and published in the following journals:

- The International Journal of Phytomedicines and Related Industries (SCOPUS)
- Borneo Journal of Resource Science and Technology (SCOPUS)
- Journal of Smart Science and Technology

Opening Ceremony

9th December 2021

Time	Agenda
0800-0845	Arrival of participants. Registration and Conference kits collection.
0845	Arrival of VVIP <ul style="list-style-type: none">• MR HII CHANG KEE, Setiausaha Tetap, Kementerian Pelancongan, Kesenian dan Kebudayaan Sarawak• MS AMELIA ROZIMAN, Chief Executive Officer, Business Sarawak Events• DATU HAJI HASHIM BIN HAJI BOJET, Pemegang Amanah Kursi Tun Zaidi/Pengurus Besar, Sarawak Timber Industry Development Corporation• PROFESSOR DATUK DR MOHAMAD KADIM BIN SUAIDI, Vice Chancellor, Universiti Malaysia Sarawak (UNIMAS)
0855	Arrival of Guest of Honor - YB DATO SRI HAJI ABDUL KARIM RAHMAN HAMZAH , Menteri Pelancongan, Kesenian dan Kebudayaan Sarawak
0900	Negaraku Ibu Pertiwiku
0905	Doa Recital
0910 – 0920	Welcoming Remark by the Vice Chancellor UNIMAS
0920 – 0945	Speech by the Guest of Honor
0945 – 0955	Launching of “Wonders of Natural Products in Malaysia” & Opening Ceremony & Souvenir Presentation
0955 – 1000	Photo session
1000	Refreshment

Conference Programme

Day 1: 9th December 2021

Time	Programme
0900 – 1000	Opening Ceremony
1000 – 1030	Refreshment
	Session Chair: PROF. DR. EDMUND SIM UI HANG
1030 – 1115	Plenary Session 1 <i>“Innovations, Trends and Challenges in Development of Natural Products, Traditional Medicines and Herbs”</i> PROF. DR. JAMIA AZDINA BINTI JAMAL
1115 – 1200	Plenary Session 2 <i>“Commodification Of Rurality In Sustainable Ecotourism Products”</i> ASSOC. PROF. DR. AMNAJ KHAOKHRUEAMUANG
1200 – 1330	Lunch
	Session Chair: PROF. DR. AWANG AHMAD SALLEHIN AWANG HUSAINI
1330 – 1400	Invited speaker 1 <i>Utilisation Of Natural Resources Through Documentation, Discovery And Development Of Natural Product Entities – The Frim Experience</i> DR. LING SUI KONG (FRIM)
1400 – 1430	Invited speaker 2 <i>New Frontier to Treat Smoking Addiction with Painless Laser Acupuncture.</i> MR. RODNEY LIM (Laser Acupuncture Centre, Singapore)
1430 – 1500	Invited speaker 3 <i>Introduction to Acupuncture Research: History and its Practice.</i> PROF. DR. ZHOU WEN XIN (International Medical University)
1500 – 1530	Invited speaker 4 <i>Perspective of Traditional Chinese Medicine</i> DR. GAN MING HANG (SOUTHERN UNIVERSITY COLLEGE)
	Session Chair: PN AMIRA SATIRAWATY
1530 – 1550	<i>Entomopathogenic Fungi As Potential Source For Laccase Enzyme</i> NUR ATHIRAH BT AZIZ
1610 – 1630	<i>Production And Extraction Of Phenolic Compounds From Fermented Raw Sago Starch By Selected Fungal Endophytes</i> NURUL AIDA QARINA BT MOHD RAZALI
1630 – 1700	Refreshment

Conference Programme

Day 2: 10th December 2021

Time	Programme
	Session Chair: DR FREDDY YEO
0900 – 1000	<i>Consumer Preferences On Herbs And Spices In Sarawak, Malaysia</i> NURUL SYAHIRAH MANSUR
	<i>Phytotherapeutic Approaches For Management Of Hyperuricemia In Gout</i> DR. PREKAN ANUSAKUMAR
	<i>Identification Of Neuroprotective And Anti-Neuroinflammation Agents Against Lps-Induced Microglial Cells Within Butterfly Pea Via Molecular Networks</i> DR. SITI MUNIRAH MOHD FAUDZI
	<i>Unlocking Untapped Resources From Elaeis Guineensis Leaf As Therapeutic Agents In Regenerative Medicine</i> DR. MOHAMAD SHAZELI CHE ZAIN
	<i>Styryllactones And Alkaloids From Goniothalamus Lanceolatus Miq.</i> DR. NUR VICKY BIHUD
	<i>Development Of Inductively Coupled Plasma-Mass Spectrometry (ICP-MS) Method For Determination Of Trace Metals In Black Pepper Berries</i> DYG SYAFIZNUR AISYAH ABANG YA'KUB
	<i>Phytochemical Screening Of Saffron Ethanolic Extract: A Preliminary Report</i> IMAN NABILAH ABD RAHIM
	<i>Fatty Acid Composition And Antimicrobial Activity Of Litsea Garciae Pulp And Seed Extracts</i> LING ZINYIN
	<i>Assessment of the Antibacterial and Antibiofilm Activity of Uncaria tomentosa extracts against Oral Bacteria</i> NOR HASLINI WAHID
	<i>Antihypertensive Effect Of Averrhoa Bilimbi Fruit Extract In Spontaneously Hypertensive Rat</i> DR. NORSYAHIDA MOHD FAUZI
	<i>Industrial, Biological And Pharmacological Uses Of Shorea Macrophylla L.</i> AJIBOLA OLAIDE OLUWUNMI
	<i>Antioxidant And Antimicrobial Properties Of Bioactive Compounds Produced Under Solid-State Fermentation Of Sago Pith Waste By Endophytic Fungi</i> CAROLYNNA BUYAU ANAK JAMES
	<i>Malay Ethnobotany And Ethnomedicine In Taj Al-Muluk, A Traditional Malay Medical Text</i> ASSOC. PROF. DR. MOHD AFFENDI BIN MOHD SHAFRI
	<i>Formulation Of Anti Acne Soap And Anti Acne Cream Using Fermented Curcuma Caesia Extract Supernatant</i> DR SITI FATHIMAH PUTERY BINTI JEMAIN
<i>Bioactivities, Phenolic And Carotene Of Aurantiochytrium Sw1 Sp. Harvested With Different Flocculant</i> NURDIANA MOKHTAR	
<i>Potential Therapeutic Application Of Phytomedicines For Sars-Cov-2 Infection: Case Report And Review</i> DR DHANASHREE PRAJAPATI	
<i>Traditional Knowledge Documentation and Useful Plants: Case Studies in Sarawak</i> JOVITA ELDERSON RIPEN	

1000 – 1030	Refereshment
	Session Chair: ASSOC. PROF. DR HASMAH MOHIDIN (UITM)
1030 – 1100	Industry Talk 1 <i>Preserving Sarawak Indigenous and Heirloom Rice</i> MR BRENDAN KON (ANTARES VENTURE SDN BHD)
1100 – 1130	Industry Talk 2 <i>The Virgin Coconut Emulsion (VCE) vs Virgin Coconut Oil (VCO)</i> DR MOHD RAZIP ASARUDDIN (UNIVERSITI MALAYSIA SARAWAK)
1130 – 1200	Industry Talk 3 <i>Black Soldier Fly (Hermetia Illucens) – Effective Food Waste Decomposer</i> MS TAN PEI CHIN (FLY TECHNOLOGY AGRICULTURE SDN BHD)
1200 – 1230	Industry Talk 4 MS AMELIA LIM WEN CHING (AQUAVERMIPONIC SDN BHD)
1230 – 1430	Lunch
	Session Chair: DR WEE BOON SIONG
1430 – 1500	Industry Talk 5 <i>Quality of Sarawak Stingless Bee (Kelulut) Honey</i> DR MARGARET ABAT (AGRICULTURE RESEARCH CENTRE)
1500 – 1530	Industry Talk 6 <i>Authentication Of Geographical Growth Origin Of Black Pepper (Piper Nigrum L.) Based On Volatile Organic Compounds Profile Using Headspace Sampler: A Case Study For Malaysia And Vietnam Black Peppers</i> MR ZEHNDER JARROOP (MPB)
	Session Chair: ASSOC. PROF. DR SIM SIONG FONG
1530 – 1700	Dialogue Session <i>“Potential of Natural Products in Promoting Tourism and Trade”</i> Panelist: EN HII CHANG KEE (Kementerian Pelancongan, Kesenian dan Kebudayaan Sarawak) MR CHEW CHANG GUAN (STATOS)
1630 – 1700	Refreshment

Day 3: 11th December 2021

Time	Programme
0900 - 1600	Visit to ecotourism spots Light & Easy with Sia Sitok 2.0 COORDINATOR: DR. DIANA KERTINI MONIR

SCREENING OF ANTIBACTERIAL ACTIVITY OF *NEOLAMARCKIA MACROPHYLLA* LEAF CRUDE EXTRACT

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ABSTRACT

Neolamarckia macrophylla (Roxb.) Bosser belongs to genus *Neolamarckia* of the family Rubiaceae which commonly known as the red kelampayan by the locals. It is an important timber tree that is used for reforestation, the woods used as raw materials of paper and plywood, while its bark used to relive fever in traditional medicine (Shi *et al.* 2020; Qalbi *et al.*, 2019). The aim of this study was to determine the antimicrobial potential of *N. macrophylla* leaf crude extract. The crude extract was obtained using maceration technique using ethanol and distilled water as solvent for the extraction process. The antibacterial activities were screened against *Escherichia coli*, *Pseudomonas aeruginosa*, *Salmonella typhimurium*, *Listeria monocytogenes*, *Staphylococcus aureus* and *Bacillus cereus* with different concentration of the crude extract (12.5 mg/mL, 25 mg/mL, 50 mg/mL and 100 mg/mL) by using disc diffusion method. The test bacteria demonstrated inhibition zone between 7 to 10 mm with the linear increase of inhibition zone with concentration of extract. This findings provide preliminary results on the antibacterial potential of *N. Macrophylla* to be used in various application. Further purification of compounds might be necessary to explore more on its optimum potential.

Keywords: antibacterial activity, leaf extracts, *Neolamarckia macrophylla*.