



2022

05

28

Sat.

31

Tue.



official Website

ETHNO 21st PHARMA COLOGY 2022



21th
International Congress
of International Society for
Ethnopharmacology

Conference Book

Organizer



中國醫藥大學
China Medical University

Co-organizers



International Society for
Ethnopharmacology



衛生福利部
Ministry of Health and Welfare



Ministry of Education
Republic of China (Taiwan)



MOST 科技部
Ministry of Science and Technology

WELCOME LETTER

ETHNO^{21st}
PHARMA
COLOGY
2022

WELCOME LETTER

First, I would like to thank the International Society for Ethnopharmacology for inviting us to host the 21st International Congress of International Society for Ethnopharmacology (ISE). My name is Mien-Chie Hung, the President of China Medical University.

The Congress of International Society for Ethnopharmacology (ISE) is organized for the first time in Taiwan. China Medical University has the longest history and unique characteristics in the development of Chinese medicine in Taiwan. It has cultivated more than 10,000 Chinese medicine and pharmacy professionals in the past 60 years. Not only its achievement and research publications in the field of TCM are ranked first in Taiwan, but also one of the best in the world in terms of quality, quantity and citations. I am confident that stronger bonds will be established between all of us who share the common goal of nurturing young talent for the 21st century.

I would like to extend my gratitude to all the dedicated scholars, educators and students who are contributing to, and participating in, this milestone event. Also, thanks to all the devoted colleagues who have worked very hard to ensure the success of the 21st International Congress of International Society for Ethnopharmacology (ISE) under the current pandemic situation. I wish the event a great success, and all guests and participants a most rewarding and enjoyable time in Taiwan. Thank you.



Mien-Chie Hung,
Academician

President
China Medical University,
Taichung, Taiwan

WELCOME LETTER

Dear friends and colleagues,

The COVID-19 pandemic has posed a huge impact on our health and wellbeing as well as daily life and research activities. Nobody knows when the COVID-19 will come to an end, but we know science needs to keep moving on. In light of this, the 21st International Congress of International Society for Ethnopharmacology (ISE) will be held on May 28th – 31st, 2022 as a hybrid (virtual and physical) meeting (Ethnopharmacology 2022).

Let's stay connected! The "Ethnopharmacology 2022" in Taichung, Taiwan, features the main theme: "Ethnopharmacology—Translating and Integrating Traditional Medicine into Clinical Practice". This will be a new and exciting experience. We provide opportunities for those who can come to attend the congress and visit Taiwan. For those who cannot travel, this is still a good opportunity to exchange science and communicate with scientists from all over the world. The scientific program of the "Ethnopharmacology 2022" includes keynote lectures, research topic lectures, short oral reports, Jing-Fang (classical Chinese medicine prescription) special lecture, Editor-in-Chiefs round table meeting, young researchers forum and African workshop. E-poster sessions can provide opportunities to interact and discuss with each other. Moreover, we offer travel grants to 20 graduate students and junior post-doc fellows, including registration fee waived and compensation of the incurred travel cost. We would like to appreciate all our sponsors' supports to make this come true.

Taiwan has successfully contained the pandemic by effective public health measures, big-data analysis, AI-assisted technology, and people's cooperation, allowing life to return to near-normal. Taichung, the 2nd largest city in Taiwan, has a pleasant climate, highly developed commercial district, historical sites, cultural scene, friendly people, and beautiful scenery, making it a hot spot for traveling, sightseeing, and both indoor and outdoor activities. China Medical University (CMU) in Taichung, Taiwan is the university where western medicine and traditional Chinese medicine sit side by side. We arranged campus tour and excursion to visit Taichung and nearby scenes. Hope you enjoy your visit, either virtual or in-person.

On behalf of the International Society for Ethnopharmacology (ISE) and China Medical University, Taiwan, we welcome you to the Ethnopharmacology 2022!

Let keep science moving on! Looking forward to meeting you.



Hung-Rong Yen, M.D., Ph.D.

Professor and Dean
College of Chinese Medicine
China Medical University,
Taichung, Taiwan



Lu-Hai Wang, Academician

Vice President and Director
Chinese Medicine Research Center
China Medical University,
Taichung, Taiwan

TABLE of CONTENTS

| | |
|-----|----------------------|
| 001 | WELCOME LETTER |
| 006 | ORGANIZING COMMITTEE |
| 009 | SPEAKERS |
| 014 | THEMATIC TOPICS |
| 017 | DETAILED PROGRAM |
| 028 | KEYNOTE SPEECHES |
| 036 | INVITED LECTURES |
| 105 | SPECIAL LECTURES |
| 125 | ORAL PRESENTATIONS |
| 139 | POSTERS |
| 351 | SPONSORS |

thermo
scientific

滿足您對實驗室設備需求

智慧型二氧化碳培養箱



程控180°C高溫滅菌



專利ISO 5 HEPA過濾系統



三氣體控制機型 氧氣調控



智慧型操作介面



生物安全操作櫃



符合NSF49國際認證



獨特雙直流變頻馬達



H14高效率過濾網



符合人體工學設計



超低溫冷凍櫃



獨特V-Drive系統，變頻壓縮機設計



密閉式氣流循環系統



採用環保冷媒



低噪音、低能源消耗



Best+gen®

倍晶生技股份有限公司

台北總公司 新北市中和區中正路716號2樓

台中分公司 台中市北區民權路595號3樓之2

E-mail: service@mail.bestgen.com.tw

TEL: 02-8226-2026

TEL: 04-2208-0626



ORGANIZING
COMMITTEE

ETHNO^{21st}
PHARMA
COLOGY
2022

ORGANIZING COMMITTEE

International Organizing Committee

- **Günter Vollmer**
President of ISE
- **Namrita Lall**
President Elect of ISE
- **Pulok K. Mukherjee**
Past President of ISE
- **Michael Heinrich**
University College London, United Kingdom
- **Marco Leonti**
Secretary of ISE
- **Caroline Weckerle**
University of Zurich, Switzerland
- **Anastasia Karioti**
Aristotle University of Thessaloniki, Greece
- **Domenico V. Delfino**
University of Perugia, Italy
- **Jacobus Nicolaas Eloff**
University of Pretoria, South Africa
- **Javier Echeverria**
Universidad de Santiago de Chile, Chile
- **Rudolph Bauer**
University of Graz, Austria
- **Zhao Zhongzhen**
Hong Kong Baptist University, China
- **Franz Huber**
University of Zurich, Switzerland
- **Fabien Schultz**
Neubrandenburg University of Applied Sciences, Germany

ORGANIZING COMMITTEE

Local Organizing Committee

- | | |
|---|---|
| ■ Lu-Hai Wang <i>China Medical University</i> | ■ Yi-Tsau Huang <i>Ministry of Health and Welfare</i> |
| ■ Hung-Rong Yen <i>China Medical University</i> | ■ Yi-Chang Su <i>Ministry of Health and Welfare</i> |
| ■ Jaung-Geng Lin <i>China Medical University</i> | ■ Lie-Fen Shyur <i>Academia Sinica</i> |
| ■ Mao-Feng Sun <i>China Medical University</i> | ■ Tsong- Long Hwang <i>Chang Gung University</i> |
| ■ Yang-Chang Wu <i>China Medical University</i> | ■ Fang-Rong Chang <i>Kaohsiung Medical University</i> |
| ■ Sheng-Chu Kuo <i>China Medical University</i> | ■ Lee-Yan Sheen <i>National Taiwan University</i> |
| ■ Yuan-Shiun Chang <i>China Medical University</i> | ■ Tian-Shung Wu <i>National Cheng Kung University</i> |
| ■ Hen-Hong Chang <i>China Medical University</i> | ■ Ben-Chang Shia <i>Taipei Medical University</i> |
| ■ Wu-Chang Chuang <i>Sun Ten Pharmaceutical Co., Ltd.</i> | ■ Chih-Lung Tai <i>Taichung Chinese Medical Association</i> |
| ■ Wei-Zhu Lee <i>Sheng Chang Pharmaceutical Co., Ltd.</i> | |

SPEAKERS

ETHNO 21st
PHARMA
COLOGY
2022

SPEAKERS

Keynote Speakers

- Director **Yi-Tsau Huang**
*Ministry of Health and Welfare,
Department of Chinese Medicine and Pharmacy, Taiwan*
- President **Günter Vollmer**
*International Society for Ethnopharmacology
Professor, Technische Universität Dresden, Dresden, Germany*
- Academician Prof. **Tommy Yung-Chi Cheng**
*Henry Bronson Professor of Pharmacology Chairman,
Consortium for the Globalization of Chinese Medicine (CGCM),
Yale School of Medicine, USA*

Invited Speakers

- **Yang-Chang Wu**
Professor, China Medical University, Taiwan
- **Lie-Fen Shyur**
Distinguished Research Fellow, Academia Sinica, Taiwan
- **Rudolf Bauer**
Professor, University of Graz, Austria
- **Sayeed Ahmad**
Associate Professor, Jamia Hamdard New Delhi, India
- **Pulok Kumar Mukherjee**
*Director, Institute of Bioresources and Sustainable Development (IBSD), Imphal,
Department of Biotechnology, Ministry of Science & Technology, Govt. of India*
- **Domenico Delfino**
Professor, University of Perugia, Italy
- **Seong-Gyu Ko**
Professor, Kyung Hee University, Korea
- **Ching Yuan Wu**
Doctor, Chiayi Chang Gung Memorial Hospital, Taiwan

SPEAKERS

Invited Speakers■ **Chung-Hua Hsu**

Superintendent, *Taipei City Hospital, Linsen Chinese Medicine and Kunming Branch, Taiwan*

■ **Yi-Chang Su**

Director, *National Research Institute of Chinese Medicine, Ministry of Health and Welfare, Taiwan*

■ **Kenji Watanabe**

Professor, *Keio University School of Medicine, Tokyo, Japan*

■ **Wai Shiu Fred Wong**

Professor, *National University of Singapore, Singapore*

■ **Aiping LYU**

Professor, *Hong Kong Baptist University, China*

■ **Fang-Rong Chang**

Professor, *Kaohsiung Medical University, Taiwan*

■ **Michael Heinrich**

Professor, *University College London, UK*

■ **De-an Guo**

Professor, *Chinese Academy of Sciences, China*

■ **Yuan-Shiun Chang**

Professor, *China Medical University, Taiwan*

■ **Zhongzhen Zhao**

Professor, *Hong Kong Baptist University, China*

■ **Javier Echeverria**

Associate Professor, *Universidad de Santiago de Chile, Chile*

■ **Marco Leonti**

Professor, *University of Cagliari, Italy*

■ **Anastasia Karioti**

Associate Professor, *Aristotle University of Thessaloniki, Greece*

■ **Chin-Chi Kuo**

Vice Superintendent, *China Medical University Hospital, Taiwan*

■ **Kun-Chan Lan**

Professor, *National Cheng Kung University, Taiwan*

■ **Chang-Eop Kim**

Professor, *Gachon University, Korea*

SPEAKERS

Invited Speakers

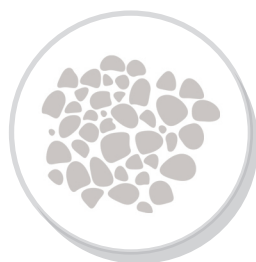
- **Jacobus Nicolaas Eloff**
Professor, *University of Pretoria, South Africa*
- **Lyndy J. McGaw**
Professor, *University of Pretoria, South Africa*
- **Lee-Yan Sheen**
Professor, *National Taiwan University, Taiwan*
- **Pei-Wen Hsiao**
Research Fellow, *Academia Sinica, Taiwan*
- **Ching-Chiung Wang**
Professor, *Taipei Medical University, Taiwan*
- **Jung-Nien Lai**
Vice Superintendent, *China Medical University Hospital, Taiwan.*
- **Jo Barnes**
Associate Professor, *University of Auckland, New Zealand*
- **Jia-bo Wang**
Vice Director, *Integrative Medical Center,*
Fifth Medical Center of Chinese PLA General Hospital, China
- **Motlalepula Matsabisa**
Professor, *University of the Free State, South Africa*
- **Anthony Booker**
Senior Lecturer, *University of Westminster, UK*
- **Wen-Chin Yang**
Research Fellow, *Academia Sinica, Taiwan*
- **Jing Yu**
Professor, *Yokohama University of Pharmacy, Japan*
- **Hen-Hong Chang**
Professor, *China Medical University, Taiwan*
- **Pravit Akarasereenont**
Director, *Mahidol University, Thailand*



高品質~ 來自每一步嚴格的把關

港香蘭通過多項國際認證，提供您安心的產品。

最完整的產品劑型.符合大眾需求



濃縮顆粒劑



傳統丸散劑



錠劑



膠囊



茶包

THEMATIC
TOPICS

ETHNO 21st
PHARMA
COLOGY
2022

THEMATIC TOPICS

Session1:

Ethnopharmacology in Taiwan

Session2:

Modern Technologies in Bioactive Chemical Analytics and Quality Control

Session3:

Ethnopharmacological Research towards New Drug Discovery

Session4:

Ethnopharmacological Studies in the COVID pandemic

Session5:

Natural Compound Research from Southeast Asia to the World

Session6:

Regulation and Challenges for Globalization of Traditional Medicine

Session7:

Herbal Resources & Biotechnology and Ethnobotanical Research

Session8:

Traditional Medicine Database and AI Technology

Session9:

Ethnoveterinary Pharmacology and One Health

Session10:

Preventive Medicine by Herbal Plants/Diet and other topics related to Ethnopharmacology

Session11:

Herb-Drug Interactions and Safety Issues

Session12:

Academic-Industrial Collaboration in Modernization of Traditional Medicine

Session13:

Integrating Ancient Knowledge into Modern Clinical Practice



莊松榮製藥廠有限公司

CHUANG SONG ZONG PHARMACEUTICAL CO., LTD.



- Good products are only from good raw materials
- For all raw materials must be preserved well
- The Storage with temperature and humidity control
- Depends on natural of material, store in different conditions

- 要有好的產品，先要有好的原料
- 好的原料，也要經過良好的保存
- 千坪倉儲，溫、濕度控制
- 藥材標準化，針對特性儲存

- Nuestro productos sólo son hecho con buenas materias primas
- Nuestro materias primas son preservadas en excelentes condiciones
- En el almacén de las materias primas se controla la temperatura y humedad
- Las condiciones de almacenamiento varían de acuerdo al tipo de materias



- Examined follows EU Pharmacopoeia
- German official PIC/S GMP certificated
- ISO 17025 Lab certificated
- Keeping update equipments continuously

- 依歐盟藥典標準，不用擔心農藥、重金屬
- 德國PIC/S GMP認證，品質有保證
- ISO 17025認證實驗室(歐盟規格)

- Certificado alemán oficial PIC / S GMP
- Certificado de laboratorio ISO 17025
- Examinado según la Farmacopea de EU

CONTACT PERSON: Kyle Chung

CHUANG SONG ZONG PHARMACEUTICAL CO., LTD

NO.119-95, Sanhe Rd., Ligang Township,

Pingtung County 905, Taiwan (R.O.C.)

TEL: 886-8-7734343

E-mail: covrelief@csz.com.tw



檢驗
農藥殘留
GC-MS/MS



LC-MS/MS

檢驗
微量毒素

DETAILED
PROGRAM

ETHNO^{21st}
PHARMA
COLOGY
2022

DETAILED PROGRAM | Saturday, 28th May, 2022

GMT+8 (Taiwan Standard Time)

On-site venue: A1 Administration Building 2F Stanford Room

No. 100, Sec. 1, Jingmao Rd., Beitun Dist., Taichung City

| Time | Content | |
|-------------|--|--|
| 13:00-13:30 | | Registration 經方講座 (中文) |
| 13:00-16:30 | Local Tour/Scenery Excursions (On-site & Virtual) <ul style="list-style-type: none"> · Taiwanese Tea Culture and Dendrobium Field Trip (on-site/extra charge) · Virtual tour of the beauty of Taiwan (13:00-15:00) | 紀念張步桃國醫逝世十周年 經方特別講座 (Chinese) 13:30-16:00 Stanford room <ul style="list-style-type: none"> · On-site & Virtual · Free Lecture |
| 19:00-21:00 | Editor-in-Chiefs Round Table Meeting (only virtual) Moderators: Prof. Michael Heinrich EiC, Frontiers in Pharmacology; UCL, UK Prof. Lie-Fen Shyur, Sinica Academia, Taiwan <ul style="list-style-type: none"> · Frontiers in Pharmacology - EiC Prof. Michael Heinrich · Journal of Traditional and Complementary Medicine- EiC Prof. Lee-Yan Sheen · Planta Medica: EiC Prof. Robert Fürst; EiC Prof. Robert Fürst · Pharmaceutical Biology- EiC Prof. John M. Pezzuto · Phytomedicine- EiC Prof. Thomas Efferth · Phytotherapy Research- EiC Prof. Angelo A. Izzo Discussion on best practice in publishing in the field by EICs and Q&A sessions for attendees. | |

DETAILED PROGRAM | Sunday, 29th May, 2022

GMT+8 (Taiwan Standard Time)

On-site venue: A1 Administration Building B2 International Conference Hall (ICH) & B201 Room

No. 100, Sec. 1, Jingmao Rd., Beitun Dist., Taichung City

| Time | Content | |
|--|---|---|
| 08:00-08:30 | Registration ISE attendees (B2) | |
| 08:30-09:10 | <p>Opening Ceremony of the 21st International Congress of the International Society for Ethnopharmacology (ICH)</p> <p>Welcome Address</p> <p>President Mien-Chie Hung <i>China Medical University, Taiwan</i></p> <p>Director Jaung-Geng Lin <i>Board of trustees, China Medical University, Taiwan</i></p> <p>Director Tzu-Chan Tseng <i>Health Bureau of Taichung City Government, Taiwan</i></p> <p>Director Yi-Tsau Huang <i>The Department of Chinese Medicine and Pharmacy of the Ministry of Health and Welfare, Taiwan</i></p> <p>Director Hong-Chen Chen <i>The Department of Life Sciences of the Ministry of Science and Technology, Taiwan</i></p> <p>President Fu-Yang Ko <i>Nation Union of Chinese Medical Doctors' Association, R.O.C.</i></p> <p>President Chih-Lung Tai <i>Taichung Chinese Medical Doctor Association, Taiwan</i></p> <p>Prof. Aiping LYU <i>School of Chinese Medicine, Hong Kong Baptist University, China</i></p> <p>President Prof. Günter Vollmer <i>International Society for Ethnopharmacology (ISE)</i></p> | |
| 09:10-09:20 | Group Photo | |
| Session 1 (ICH): Ethnopharmacology in Taiwan | | |
| Moderator: Vice President Lu-Hai Wang <i>China Medical University, Taiwan</i> | | |
| Time | Topic | Speaker |
| 09:30-09:50 | The Value-added Chinese Herbal Medicine to Translational Research | Prof. Yang-Chang Wu <i>Graduate Institute of Integrated Medicine, China Medical University, Taiwan</i> |
| 09:50-10:10 | A New Paradigm for Future Medicine Development from Formosan Medicinal Plants for Cancer Diseases | Prof. Lie-Fen Shyur <i>Agricultural Biotechnology Research Center, Academia Sinica, Taiwan</i> |
| 10:10-10:20 | Session 1 Speaker Q&A | |
| 10:20-10:45 | Oral Presentation MT002 Topic: Clarifying the Medical Function of Commercial Daodi-Ugon, the roots of Helminthostachys zeylanica, by Evidence-based Water-soluble Components | Shuen-Yih Fang <i>Department of Marine Biotechnology and Resources, National Sun Yat-sen University, Taiwan</i> |
| | MT008 Topic: Multi-informative molecular networking platform for exploring the metabolomic diversity of traditional Chinese medicine | Kuei-Hung Lai <i>PhD Program in the Clinical Drug Development of Herbal Medicine, Taipei Medical University, Taiwan</i> |
| | ES002 Topic: The Possible Efficacy of Herbal Medicine, Jing-Guan-Fang, for COVID-19 patients and close contacts during the pandemic outbreak in 2021 in Taiwan | Renn-shiuan Wei <i>Branch of Linsen, Chinese Medicine, and Kunming, Taipei City Hospital, Taiwan</i> |
| 10:45-10:50 | Session 1 Oral presentation Q&A | |
| 10:50-11:10 | Coffee Break | |

| Session 2 (ICH): Modern Technologies in Bioactive Chemical Analytics and Quality Control | | |
|--|---|--|
| Moderator: Prof. Yuan-Shiun Chang China Medical University, Taiwan | | |
| Time | Topic | Speaker |
| 11:10-11:30 | Recent developments in the quality control strategies of traditional herbal drugs in the European Pharmacopoeia | Prof. Rudolf Bauer <i>Institute of Pharmaceutical Sciences, Department of Pharmacognosy, University of Graz, Austria</i> |
| 11:30-11:50 | Metabolomic profiling of botanicals and traditional medicine | Dr. Sayeed Ahmad <i>Department of Pharmacognosy & Phytochemistry, School of Pharmaceutical Education & Research Jamia Hamdard New Delhi, India</i> |
| 11:50-12:10 | Metabolomics in quality evaluation of traditional medicine – Indian perspectives | Prof. Pulok Kumar Mukherjee <i>Institute of Bioresources and Sustainable Development (IBSD), Imphal, Department of Biotechnology, Ministry of Science & Technology, Govt. of India</i> |
| 12:10-12:20 | Session 2 Speaker Q&A | |
| 12:20-12:28 | Oral Presentation RC009 Topic: Specification of Traditional Chinese Medicine in the five Pharmacopoeias: origin, identification, contents, and impurities | Le Thanh Vinh Tuyen <i>Taipei Medical University, Taipei, Taiwan</i> |
| 12:28-12:30 | Session 2 Oral presentation Q&A | |
| 12:30-13:30 | Lunch Time | |
| 13:30-14:10 | Keynote Speech (ICH) Topic: Prospects and Challenges of Traditional Medicine in the 21st Century- A Taiwan Perspective | Director Yi-Tsau Huang <i>The Department of Chinese Medicine and Pharmacy of the Ministry of Health and Welfare, Taiwan</i> |
| Session 3 (ICH): Ethnopharmacological Research towards New Drug Discovery | | |
| Moderator: Prof. Yang-Chang Wu China Medical University, Taiwan | | |
| Time | Topic | Speaker |
| 14:10-14:30 | Ethnopharmacology in the context of traditional Vietnamese medicine | Prof. Domenico Delfino <i>Department of Medicine and Surgery Section of Pharmacology University of Perugia, Italy</i> |
| 14:30-14:50 | The potential anticancer effects of SH003 | Prof. Seong-Gyu Ko <i>WHO Collaborating Center for Traditional Medicine in South Korea, College of Korean Medicine, Kyung Hee University, Korea</i> |
| 14:50-15:10 | The effect of Chiehyuan Herbal Oral Protection Solution on ACE2 and TMPRSS2 variants of SARS-CoV-2 | Dr. Ching Yuan Wu <i>Chiayi Chang Gung Memorial Hospital, Taiwan</i> |
| 15:10-15:30 | Session 3 Speaker Q&A | |
| 15:30-15:50 | Coffee Break | |

| Session 4 (ICH): Ethnopharmacological Studies in the COVID pandemic | | |
|---|--|---|
| Moderator: Prof. Yi-Hung Chen China Medical University, Taiwan | | |
| Time | Topic | Speaker |
| 15:50-16:10 | The Traditional Chinese Medicine Formula, Jing Guan Fang(JGF), for Preventing SARS-CoV-2 Infection: From Clinic to Bench | Superintendent Chung-Hua Hsu <i>Taipei City Hospital, Linsen Chinese Medicine and Kunming Branch, Taiwan</i> |
| 16:10-16:30 | The development and application of NRICM101 (台灣清冠一號) in the treatment of COVID-19 | Prof. Yi-Chang Su <i>National Research Institute of Chinese Medicine, Ministry of Health and Welfare, Taiwan</i> |
| 16:30-16:50 | Covid-19 treatment from the aspect of Traditional Medicine in Japan | Prof. Kenji Watanabe <i>Center for Kampo Medicine, Keio University School of Medicine, Tokyo, Japan</i> |
| 16:50-17:00 | Session 4 Speaker Q&A | |
| 17:00-17:08 | Oral Presentation ES008 Topic: Using an integrated analysis to identify Astragalus-based formula as potential treatment for COVID-19 | Doan Hien Ly <i>Institute of Biopharmaceutical Sciences, National Yang Ming Chiao Tung University, Taipei, Taiwan</i> |
| 17:08-17:10 | Session 4 Oral presentation Q&A | |
| Parallel Events | | |
| 17:10-18:30 | Campus Tour (virtual: ICH /on-site: Yingcai Campus) · Li-Fu Chinese Medicine Museum | Guided poster presentation (on official website/ B201) |

DETAILED PROGRAM | Monday, 30th May, 2022

GMT+8 (Taiwan Standard Time)

On-site venue: A1 Administration Building B2 International Conference Hall (ICH) & B201 Room

No. 100, Sec. 1, Jingmao Rd., Beitun Dist., Taichung City

| Time | Content | | |
|--|--|--|---|
| 08:00-08:30 | Tai Chi practice (virtual: ICH) Dr. Peter Mayer <i>International Master Program in Acupuncture, China Medical University, Taiwan</i> | | |
| Parallel Events | | | |
| 08:30-09:30 | Campus Tour (virtual: ICH) · Li-Fu Herbal Garden | Guided poster presentation (on official website/ B201) | |
| Session 5 (ICH): Natural Compound Research from Southeast Asia to the World Moderator: Dr. Anastasia Karioti <i>Aristotle University of Thessaloniki, Greece</i> | | | |
| Time | Topic | Speaker | |
| 09:30-09:50 | Calcaratarin D, a Bioactive Labdane Diterpenoid, Protects Against Allergic Asthma via Modulating Alveolar Macrophage Functions | Prof. Wai Shiu Fred Wong <i>Department of Pharmacology, Yong Loo Lin School of Medicine, National University of Singapore, Singapore</i> | |
| 09:50-10:10 | Optimization of Herbal Formula to synergized combination drug discovery | Prof. Aiping LYU <i>School of Chinese Medicine, China Baptist University, China</i> | |
| 10:10-10:30 | R&D in Three Cases of Natural Products | Prof. Fang-Rong Chang <i>Pharmacognosy and Graduate Institute of Natural Products, Kaohsiung Medical University, Taiwan</i> | |
| 10:30-10:40 | Session 5 Speaker Q&A | | |
| 10:40-10:48 | Oral Presentation RM002 Topic: Targeting Glycolysis in Th2 cells by Pterostilbene Attenuates Clinical Severities in an Asthmatic Mice and IL-4 Production in PBMC from Asthmatic Patients | Chuan-Teng Liu <i>Chinese Medicine Research Center, China Medical University, Taiwan</i> | |
| 10:48-10:50 | Session 5 Oral presentation Q&A | | |
| 10:50-11:10 | Coffee Break | | |
| Parallel Meetings | | | |
| 11:10-12:30 | Session 6 (ICH): Regulation and Challenges for Globalization of Traditional Medicine Moderator: Prof. Rudolf Bauer <i>University of Graz, Austria</i> | 11:00-13:00 | (B201) Young Researcher Forum Moderator: Dr. Fabien Schultz <i>Neubrandenburg University of Applied Sciences, Germany</i> Dr. Jung Chao <i>China Medical University, Taiwan</i> |
| 11:10-11:30 | Topic: ConPhyMP - how to solve the challenges of characterising extracts used in pharmacological research Prof. Michael Heinrich <i>The School of Pharmacy Centre of Pharmacognosy and Phytotherapy, University College London, United Kingdom</i> | 11:00-11:20 | Topic: Castaneroxy A from the Leaves of Castanea sativa Inhibits Virulence in MRSA Dr. Akram Salam |
| 11:30-11:50 | Topic: Quality-oriented TCM research and quality standard Prof. De-an Guo <i>Shanghai Institute of Materia Medica, Chinese Academy of Sciences, China</i> | 11:20-11:40 | Topic: Genetic and chemical exploration of the extremophiles living in a Boiling River in the Amazon Rainforest Dr. Rosa Vásquez Espinoza |

DETAILED PROGRAM | Monday, 30th May, 2022

| | | | |
|--|---|--|---|
| 11:50-12:10 | Topic: Quality Control of TCM Herbs and Herbal Preparations in Taiwan Prof. Yuan-Shiun Chang <i>Department of Chinese Pharmaceutical Sciences and Chinese Medicine Resources, China Medical University, Taiwan.</i> | 11:40-12:00 | Topic: The Future of Ethnopharmacology in East Africa: Some Examples on the Current Status, Challenges and Opportunities Timothy Omara |
| 12:10-12:20 | Session 6 Speaker Q&A | 12:00-12:20 | Topic: The ethnopharmacology of Cinchona bark and the history of quinine Dr. Nataly A. Canales |
| 12:20-12:28 | Oral Presentation RC003 Topic: Designing delivery models of traditional and complementary medicine services: a review of international experiences Leonard Ho <i>Chinese University of Hong Kong</i> | 12:20-12:40 | Topic: Fabrication, characterization of phyto-functionalized silver nanoparticles derived from aqueous leaf extract of Atropa acuminata and evaluation of their therapeutic potential Dr. Shubra Rajput |
| 12:28-12:30 | Session 6 Oral presentation Q&A | 12:40-13:00 | Topic: Botanical survey in Taiwan disease Chien-Yu Ko |
| 12:30-13:30 | Lunch Time | | |
| 13:30-14:10 | Keynote Speech (ICH) Topic: Physiological and molecular dissection of multiple bioactivities of hops | President Prof. Günter Vollmer <i>International Society for Ethnopharmacology</i> | |
| Session 7 (ICH): Herbal Resources & Biotechnology and Ethnobotanical Research Moderator: Prof. Namrita Lall <i>University of Pretoria , South Africa</i> | | | |
| Time | Topic | Speaker | |
| 14:10-14:30 | Five major aromatic medicines from Compendium of Materia Medica | Prof. Zhongzhen Zhao <i>School of Chinese Medicine, China Baptist University, China</i> | |
| 14:30-14:50 | Ethnopharmacology in Chile: Opportunities and challenges | Dr. Javier Echeverria <i>Universidad de Santiago de Chile, Chile</i> | |
| 14:50-15:10 | Retrospective Survey of Treatment and Outcomes of COVID-19 in the community of the UK and Italy | Prof. Marco Leonti <i>Department of Biomedical Sciences, University of Cagliari, Italy</i> | |
| 15:10-15:30 | Origanum dictamnus: HPLC-PDA -MS and NMR profile of the infusion and its relaxing effect on rabbit intestine | Associate Professor Anastasia Karioti <i>Laboratory of Pharmacognosy, School of Pharmacy, Aristotle University of Thessaloniki</i> | |
| 15:30-15:40 | Session 7 Q&A | | |
| 15:40-15:50 | Coffee Break | | |

| Parallel Meetings | | | |
|--|--|--|--|
| Session 8: Traditional Medicine Database and AI Technology (ICH) Moderator: Dr. Mei-Yao Wu <i>China Medical University, Taiwan</i> | | Session 9: Ethnoveterinary Pharmacology and One Health (B201) Moderator: Prof. Pulok Kumar Mukherjee <i>Director, IBSD, Ministry of Science & Technology, Govt. of India</i> | |
| 15:50-16:10 | Topic: The Roadmap of Building a Smart Data Platform for Intelligent Network Ethnopharmacology Vice Superintendent Chin-Chi Kuo <i>Big Data Center, China Medical University Hospital, Taiwan</i> | 15:50-16:10 | Topic: Strong and weak points between the ethnoveterinary and phytomedicinal approaches in using plants to enhance animal health and productivity Prof. Jacobus Nicolaas Eloff <i>Phytomedicine Programme, University of Pretoria, South Africa</i> |
| 16:10-16:30 | Topic: TCM on a smartphone Prof. Kun-Chan Lan <i>Department of Computer Science and Information Engineering, National Cheng Kung University, Taiwan</i> | 16:10-16:30 | Topic: Morinda lucida (Rubiaceae): investigations on a potential phyto-genic poultry feed additive Prof. Lyndy J. McGaw <i>Faculty of Veterinary Science, Department of Paraclinical Sciences, University of Pretoria, South Africa</i> |
| 16:30-16:50 | Topic: A Novel Framework for Understanding the Pattern Identification of Traditional Asian Medicine From the Machine Learning Perspective Prof. Chang-Eop Kim <i>Department of Physiology, College of Korean Medicine, Gachon University, Korea</i> | 16:30-16:40 | Session 9 Speaker Q&A |
| 16:50-17:00 | Session 8 Speaker Q&A | 16:40-16:48 | Oral Presentation EP003 Topic: Self-medication in wild chimpanzees and mountain gorillas - Local knowledge and discovery of novel natural remedies Fabien Schultz <i>Neubrandenburg University of Applied Sciences, Germany</i> |
| 17:00-17:08 | Oral Presentation TM001 Topic: Chinese herbal medicine reduced the risk of attention deficit hyperactivity disorder in pediatric patients with atopic dermatitis: A population-based retrospective cohort study Chieh Wang <i>Department of Chinese Medicine, China Medical University Hospital, Taiwan</i> | 16:48-16:56 | Oral Presentation IA011 Topic: Establishing an International Disease Coding System for Traditional Chinese Veterinary Medicine: A Pilot Study in Dogs Chien-Min Lien <i>Institute of Traditional Medicine, National Yang Ming Chiao Tung University, Taiwan</i> |
| 17:08-17:10 | Session 8 Oral presentation Q&A | 16:56-17:00 | Session 9 Oral presentation Q&A |

DETAILED PROGRAM | Tuesday, 31st May, 2022

GMT+8 (Taiwan Standard Time)

On-site venue: A1 Administration Building B2 International Conference Hall (ICH) & B201 Room
No. 100, Sec. 1, Jingmao Rd., Beitun Dist., Taichung City

| Time | Content | |
|--|--|---|
| 08:00-08:30 | Ba-duan-jin practice (virtual: ICH) | |
| 08:30-09:10 | Keynote Speech (ICH) Topic: WE Medicine: Case Study: YIV-906 | Academician Prof. Tommy Yung-Chi Cheng <i>Chairman, Consortium for the Globalization of Chinese Medicine (CGCM)</i> <i>Yale University School of Medicine, USA</i> |
| Session 10 (ICH) Part I Preventive Medicine by Herbal Plants/Diet and other topics related to Ethnopharmacology Moderator: Dr. Wen-Te Chang <i>China Medical University</i> | | |
| Time | Topic | Speaker |
| 09:10-09:30 | The anti-inflammatory mechanisms of Shen-Zhuo-Tang in osteoarthritis | Prof. Lee-Yan Sheen <i>Center for Food and Biomolecules, Institute of Food Science and Technology, National Taiwan University, Taiwan</i> |
| 09:30-09:40 | Session 10 Q&A | |
| Session 11 (ICH): Herb-Drug Interactions and Safety Issues Moderator: Dr. Jia-bo Wang <i>Fifth Medical Center of Chinese PLA General Hospital, China</i> | | |
| 09:40-10:00 | Chinese herb-hormone therapy interactions: challenges and opportunities for integrative medicine | Prof. Jung-Nien Lai <i>Department of Chinese Medicine, China Medical University Hospital, Taichung, Taiwan.</i> |
| 10:00-10:20 | Phytopharmacovigilance: detecting and responding to adverse reactions associated with herbal and traditional medicines | Associate Professor Jo Barnes <i>School of Pharmacy, University of Auckland, New Zealand</i> |
| 10:20-10:40 | Unmask the Mystery of Polygonum multiflorum-induced liver injury | Dr. Jia-bo Wang <i>Integrative Medical Center, Fifth Medical Center of Chinese PLA General Hospital, China</i> |
| 10:40-10:50 | Session 11 Speaker Q&A | |
| 10:50-11:10 | Coffee Break | |
| Parallel Events | | |
| 11:10-12:10 | (ICH)Campus Tour (virtual) · College of Chinese Medicine · Chinese Medicine Research Center · Dept of Chinese Medicine at CMUH | African Workshop (B201) Moderator: Prof. Namrita Lall <i>University of Pretoria, South Africa</i> |
| Time | Content (African Workshop) | |
| 11:00-11:15 | Anna-Mari Reid Topic: COVID-19 and viral pandemics throughout history | |
| 11:15-11:30 | Ananya Goel Topic: Plant-based adjuvant to combat COVID-19 | |
| 11:30-11:45 | Brandon Alston Topic: Medicinal plants as a tool in the fight against COVID-19 | |
| 11:45-12:00 | Anywar Godwin Topic: African medicinal plant species as potential vaccine candidates: A case of Ugandan medicinal plants | |
| 12:00-12:15 | Kalakotla Shanker Topic: Therapeutic potential of medicinal plants: An alternative therapy to combact immunity disorders & COVID-19 | |
| 12:15-12:30 | PORTIA HLAKO Topic: The Registration of Complementary Medicines in South Africa: A Regulatory Perspective | |

DETAILED PROGRAM | Tuesday, 31st May, 2022

| | | |
|---|--|---|
| 12:30-12:40 | Ashish Wadhvani Topic: Antiviral potential of components of tea and other medicinal plants from Mauritius for the treatment of COVID-19 | |
| 12:40-12:50 | Naglaa Ashmawy Topic: Significant alteration in the metabolism and immunity of peripheral blood monocyte-derived macrophages to residual SARS-CoV-2 proteins | |
| 12:20-13:20 | Lunch Time | |
| Session 10 (ICH) Part II Preventive Medicine by Herbal Plants/Diet and other topics related to Ethnopharmacology Moderator: Dr. Wen-Te Chang <i>China Medical University, Taiwan</i> | | |
| 13:20-13:40 | Optimization of Herbal Formula to synergized combination drug discovery | Prof. Pei-Wen Hsiao <i>Agricultural Biotechnology Research Center (ABRC), Academia Sinica, Taiwan</i> |
| 13:40-14:00 | The anti-inflammatory mechanisms of Shen-Zhuo-Tang in osteoarthritis | Prof. Ching-Chiung Wang <i>School of Pharmacy, Taipei Medical University, Taiwan</i> |
| 14:00-14:10 | Session 10 Q&A | |
| Session 12 (ICH): Academic-Industrial Collaboration in Modernization of Traditional Medicine Moderator: Prof. Ming-Kuem Lin <i>China Medical University, Taiwan</i> | | |
| Time | Topic | Speaker |
| 14:10-14:30 | Fostering Academia-Industry Collaborative Research- PHELA Product Development and its Repurposing for COVID-19 - A case study | Prof. Motlalepula Matsabisa <i>Research Unit Director at University of the Free State, South Africa</i> |
| 14:30-14:50 | Phytochemical analysis of herbal and plant-based products: quality and adulteration | Dr. Anthony Booker <i>Chinese Herbal Medicine and Medicinal Plant Sciences, University of Westminster, UK</i> |
| 14:50-15:10 | Research and Development of Bidens pilosa for metabolic syndrome | Prof. Wen-Chin Yang <i>Agricultural Biotechnology Research Center (ABRC), Academia Sinica, Taiwan</i> |
| 15:10-15:20 | Session 12 Speaker Q&A | |
| 15:20-15:28 | Oral Presentation HR012 Topic: Integrated analysis of medicinal Dendrobium fimbriatum in different growth years | Yun Chen Tsai <i>Sun Ten Pharmaceutical Co., Ltd</i> |
| 15:28-15:30 | Session 12 Oral presentation Q&A | |
| 15:30-15:50 | Coffee Break | |
| Session 13 (ICH): Integrating Ancient Knowledge into Modern Clinical Practice Moderator: Prof. Hung-Rong Yen <i>China Medical University, Taiwan</i> | | |
| Time | Topic | Speaker |
| 15:50-16:10 | The side effects of traditional Chinese medicine | Prof. Jing Yu <i>Yokohama University of Pharmacy, Japan</i> |
| 16:10-16:30 | The Experience of Traditional Chinese Medicine formula in Treating Sjogren's Syndrome | Prof. Hen-Hong Chang <i>Graduate Institute of Integrated Medicine, China Medical University, Taiwan</i> |
| 16:30-16:50 | Traditional Thai Medicine in Precision Medicine | Dr. Pravit Akarasereenont <i>WHO Collaborating Centre for Traditional Medicine in Thailand Mahidol University, Thailand</i> |
| 16:50-17:10 | Session 13 Speaker Q&A | |
| 17:10-18:00 | Travel Grants, Poster Awards & Closing Ceremony | |

安心飲片 藥食兩用



- 三氧化二鋁包裝袋，防潮抗氧保存性佳。
- 包裝脫氧處理，延長保鮮。

- 手機掃描 QR Code，產地來源&檢驗報告立即看。

符合衛福部公告
重金屬檢測
二氧化硫檢測
農藥殘留檢測

381項



leptoclados is a good source for developing 9,11-secosteroids. We also identify that compound 6 is a potential natural product to be developed as an anti-inflammatory drug.

Keywords: *Sinularia leptoclados*; 9,11-secosteroid; human neutrophils; anti-inflammatory

ETHNO 21st

NC010. Malay Ethnomedicine for Covid-19-like Symptoms from Kitab Tib Terengganu

Mohd Affendi Mohd Shafri^{1,2,*} and Nurul Shahida Isa¹

¹ Biomedical Science Department, Kuliyah of Allied Health Sciences, International Islamic University Malaysia, 25200 Kuantan, Pahang.

² Nationhood and Civilisation Department, Centre for Foundation and Continuing Education, University Malaysia Terengganu, 21300 Kuala Terengganu, Terengganu.

E-mail: affendishafri@iium.edu.my

Background: *Coronavirus* disease 2019 (COVID-19) outbreak has swept the globe and caused unprecedented fatality [1]. To date, there is still no specific treatment available to treat COVID-19 despite several attempts [2,3]. Natural compound against Covid-19 may exist but for Southeast Asian nations, the search is hampered by the great biological diversity. Traditional medical text may provide some guidance hence we conducted a study on a text on traditional Malay medicine (or *Kitab Tib*), [4] currently located in the Terengganu State Museum to identify potential ethnomedical formulations or materials that may have the potential to be used as interventions for COVID-19-like symptoms.

Method: Several Malay medical manuscripts were first screened and selected according to the Index of Manuscript Selection [5]. Data extraction was carried out on the selected text using several Malay medicine technical keywords matched to the symptoms of COVID-19 infection. Data was further categorised according to types whether plant-, animal-, or miscellaneous-based ingredients.

Ingredients are further analysed for its possible efficacy by conducting a comparative analysis with contemporary studies on modern scientific databases, PubMed and Google Scholar.

Results: 148 formulations containing 138 plant, 10 animals, and 6 miscellaneous ingredients for respiratory illnesses and COVID-19-like symptoms were retrieved. Comparative analysis to modern databases supported the traditional use of half of the materials in the formulations in treating respiratory-related disorders ready for further study on natural compound or use as medication.

References

- [1] Lim ZJ, Subramaniam A, Ponnappa Reddy M, Blecher G, Kadam U, Afroz A, Billah B, Ashwin S, Kubicki M, Bilotta F, Curtis JR, Rubulotta F. Case Fatality Rates for Patients with COVID-19 Requiring Invasive Mechanical Ventilation. A Meta-analysis. *Am J Respir Crit Care Med*. 2021 Jan 1;203(1):54-66.
- [2] Formiga FR, Leblanc R, de Souza Rebouças J, Farias LP, de Oliveira RN, Pena L. Ivermectin: an award-winning drug with expected antiviral activity against COVID-19. *J Control Release*. 2021 Jan 10;329:758-761.
- [3] Zhao Z, Li Y, Zhou L, Zhou X, Xie B, Zhang W, Sun J. Prevention and treatment of COVID-19 using Traditional Chinese Medicine: A review. *Phytomedicine*. 2021 May;85:153308.
- [4] Mat Piah, H. *Kitab Tib Muzium Terengganu*. Forest Research Institute Malaysia: Kuala Lumpur. 2017.
- [5] Mohd Shafri, MA. SAKTI Index: Towards A Scientific Evaluation of Malay Medical Manuscripts, *International Journal of Allied Health Sciences*, 2021; 5: 2351-2363.

NC011. Naturally Occurring Bicomarin Compound Daphnoretin Inhibits Growth and Induces Megakaryocytic Differentiation in Human Chronic Myeloid Leukemia Cells

Yu-Chuen Huang^{1,2}, Hao-Pei Wang^{1,3}, Chun-Ping Huang^{1,4}, Yu-Jie Lei², Kai-Chien Yang⁵, Yueh-Hsiung Kuo^{2,6,7,*} and Yu-Jen Chen^{2,8,9}

¹ School of Chinese Medicine, China Medical University, Taichung 40402, Taiwan

² Department of Medical Research, China Medical University Hospital, Taichung 40447, Taiwan

³ Department of Public Health, China Medical University, Taichung 40402, Taiwan

⁴ Integration Center of Traditional Chinese and Modern Medicine, and Department of Chinese Medicine, Hualien Tzu Chi Hospital, Hualien 97002, Taiwan

⁵ Department of Medical Research, MacKay Memorial Hospital, New Taipei City 25160, Taiwan

⁶ Department of Chinese Pharmaceutical Sciences and Chinese Medicine Resources, China Medical University, Taichung 40402, Taiwan

⁷ Department of Biotechnology, Asia University, Taichung 41354, Taiwan

⁸ Department of Nursing, MacKay Junior College of Medicine, Nursing and Management, Taipei 11260, Taiwan

⁹ Department of Radiation Oncology, MacKay Memorial Hospital, Taipei 10449, Taiwan

E-mail: oncoman@mmh.org.tw (Y-J C) and kuoyh@mail.cmu.edu.tw (Y-H K)

Daphnoretin extracted from the stem and roots of *Wikstroemia indica* (L.) C.A. Mey, a protein kinase C (PKC) activator, has been shown to possess antiviral and antitumor activities. The potential of daphnoretin to treat specific cancers has been studied, although there is no evidence of its growth-inhibiting or differentiation-inducing effects on human chronic myeloid leukemia (CML) cells. Since megakaryocytic differentiation can be induced by PKC, we hypothesized that