

CGCM 15th Annual Meeting Regional Report Taiwan Chapter

Local Chapter Coordinator: President Yun Yen Secretary General: Prof. Hsu-Shan Huang Taipei Medical University 2016/08/23







Taiwan Chapter: History

- ▶ CGCM Taiwan Chapter was organized in 2005 under the support of National Health Research Institute (NHRI), founding President Dr. Cheng-Wen Wu (吳成文院長). The National Health Research Institutes (NHRI) is a non-profit foundation established by the government in 1995.
- ➤ Up to now, we have 21 institutional members (17 from academia and 4 from industry).
- ▶2005-2013: Chairperson, Academician Jacqueline Whang-Peng (彭汪嘉康院士) ▶Secretary General: Inan Ma-Feng (馬以南)
- ▶2014-present: Chairperson, Taipei Medical University, President Yun Yen (閻雲) ▶Secretary General: Hsu-Shan Huang (黃旭山)



Local Organizing Committee in Taiwan

- Agricultural Biotechnology Research Center (ABRC), Academia Sinica
 - Lie-Fen Shyur (Chairman)
 - Ming-Che Shih; Ning-Sun Yang
 - Wen-Chin Yang; Pei-Wen Hsiao
 - Yet-Ran Chen; Yu-Liang Yang
 - Yu-Chuan Liang
- · Taipei Medical University
 - Yun Yen (Chairman)
 - Jacqueline Whang-Peng
 - Hsu-Shan Huang (Secretary General)
- China Medical University
 - Hen-Hong Chang (Vice-Chairman of the CGCM)
 - Yang-Chang Wu (Vice President of CMU)
- · Ministry of Health and Welfare
 - Yi-Tsau Huang (Director-General)

- · National Taiwan University
 - Lee-Yan Sheen
- National Research Institute of Chinese Medicine
 - Jih-Hwa Guh
 - Yuh-Chiang Shen
- Sponsors
 - Agricultural Biotechnology Research Center, Academia Sinica, Taiwan
 - Taipei Medical University, Taiwan
 - CGCM Taiwan Chapter
 - CGCM
- Co-Sponsors
 - Department of Chinese Medicine and Pharmacy, Ministry of Health and Welfare, Taiwan
 - National Research Institute of Chinese Medicine, Ministry of Health and Welfare, Taiwan
 - China Medical University, Taiwan
 - National Museum of Marine Biology and Aquarium, Taiwan
 - Research Promotion Center for Life Sciences, Ministry of Science and Technology, Taiwan
 - Taiwan Association for Traditional and Complementary Medicine
 - International Association for Traditional and Complementary Medicine



中 药 全 球 化 联 盟 CONSORTIUM FOR GLOBALIZATION OF CHINESE MEDICIN

Board of Directors

Chairman



Prof. Yung-chi Cheng Henry Bronson Professor of Pharmacology, Yale University School of Medicine

Vice Chairman (Taiwan)



Prof. Hen-Hong Chang China Medical University

Advisory Board



Prof Jacqueline Whang-Peng Honorary Researcher, Institute of Cancer Research, National Health Research Institutes (NHRI), Superintendent, Taipei Cancer Center, Taipei Medical University



Prof. Yun Yen President Taipei Medical University

Council Members



Prof. Ning-Sun Yang Distinguished Research Fellow and Professor Agricultural Biotechnology Research Center, Academia Sinica, Taiwan



Dr. Kenneth Wu Chair Professor and Director, Metabolomic Medicine Research Center, China Medical University Jin Dui Ho Chair, National Tsing-Hua University, Taiwan

中药全球化联盟

CONSORTIUM FOR GLOBALIZATION OF CHINESE MEDICIN

Local Chapter Coordinators (17+4)





Center for Drug Evaluation, Taiwan





長庚紀念醫院中醫部 Chang Gung Memorial Hospital Traditional Chinese Medicine

國立臺灣師範大學

Industrial Affiliate Members (4)





台灣三愛農業科 技股份有限公司





中 药 全 球 化 联 盟 CONSORTIUM FOR GLOBALIZATION OF CHINESE MEDICINE

Department of Chinese Medicine and Pharmacy (MOHW)



➤ The combined treatment model between Western and TCM-chronic wound, GERD, infertility

➤ Standardization for terminologies in TCM

➤ Construction of tongue diagnosis database

Reenforcement of medical service & consumer safety

Improving TCM product quality & safety management

Finished revising the 2nd English version of Taiwan Herbal Pharmacopeia

➤ New adapted 57 single herb monographs and 2 concentrated preparation

The regulatory limitation of abnormal substances





➤TCM-WM drug interaction information databases ►Integration of TCM-WM ADRs Reporting system

Integration

of TCM-WM quality & safety risk assessment

TCM international interaction & industry innovation and research

Continuous publishing JTCM

Exchange and cooperation with Mainland China, Hong Kong and Macau about the TCM's quality standards

>TCM industry trend analysis and EU duty visit







设中药全球化联盟

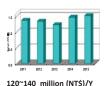
Director: Jih-Hwa Guh, Ph.D.

CONSORTIUM FOR GLOBALIZATION OF CHINESE MEDICINE

National Research Institute of Chinese Medicine (NRICM)

NRICM History Government Institution Director Formally Re-structuring Jih-Hwa Guh, Ph.D. Expansion Established 1995 1963 July 23th, 2013 Feb 1th, 2016 Ministry of Education Ministry of Health and Welfare (MOHW, 衛生福利部)











Research Emphases:

- 1. Mission-oriented top-down research
 - 1. Quality Control
 - 2. Evidence-Based Clinical Research
 - 3. Drug-TCM Interaction and Safety

2. Basic science research

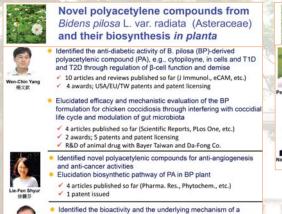
- 1. Diseases Prevention and Treatment
- 2. Chemical Analysis and Total Synthesis
- 3. Drug Metabolism and Toxicology
- 3. Compile and publish Chinese medical literatures





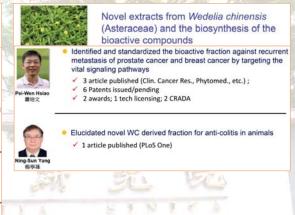
🕻 Agricultural Biotechnology Research Center (ABRC), Academia Sinica

Herbal Medicine Research Program- Evidence-based R&D of phytomedicines for cancer therapy and immuno-modulation **Highlights of Research Topics & Achievements**



polyacetylenic glycoside from BP plant against mammary tumor

1 paper published (J. Leukocyte Biol.)





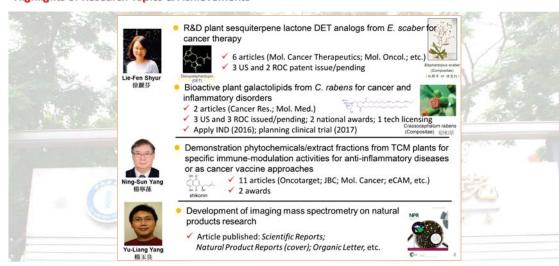
桑中药全球化联盟

CONSORTIUM FOR GLOBALIZATION OF CHINESE MEDICINE



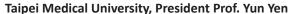
🕽 Agricultural Biotechnology Research Center (ABRC), Academia Sinica

Herbal Medicine Research Program- Evidence-based R&D of phytomedicines for cancer therapy and immuno-modulation **Highlights of Research Topics & Achievements**





中 药 全 球 化 联 盟 CONSORTIUM FOR GLOBALIZATION OF CHINESE MEDICIN



Graduate Institute of Pharmacognosy & Ph.D. program for the Clinical Drug Discovery from Botanical Herbs

Master / Ph.D. Consistent Education

Graduate Institute of Pharmacognosy Herbs, Proteins, **Natural Products Bioactivity**

Translational Research

National Research Institute of Chinese Medicine

Development of

Herbal medicines

Taipei Medical University

Ph.D. program for the Clinical Drug Discovery from Botanical Herbs

Pharmaceutical Company

USE OF URARIA IN PROMOTING OSTEOGENESIS OR PROVIDING NEUROPROTECTION

Healthy Food, Care Products

Potential Compounds

Clinical / Industry Value

Research Focus

assay

Osteoporosis, Hyperglycemia, Hypertension, Aging, Cancer, **Degenerative Neurological Disease**

Cooperate with 5 hospitals: Taipei Medical University, Wan Fang, Shuang Ho, Shin-Kong, Cathay General

> School of Pharmacy Graduate Institute of Pharmacognosy Ph.D. program for the Clinical Drug Discovery from Botanical Herbs Conference

Oriental Medicine 2016 Invited Lecture 1: Survey of Traditional Chinese Medicine Diagrams and Tables

Invited Lecture 2:

The prescription philosophy of D

Posters: 20

17

Professor/Dean 王靜瓊 教授/所長 Wang, Ching-Chiung Professor/Director 侯文琪 教授 Hou, Wen-Chi Professor 黃偉展 副教授 與單級 副教授 Huang, Wei-Jan Associate Professor 林若凱 助理教授 Lin, Ruo-Kai Assistant Professor 莊國祥 助理教授 Chuang, Kuo-Hsiang Assistant Professor 李慶國 教授 Lee, Ching-Kuo Professor 李美賢 教授 Lee, Mei-Hsien Professor 載承杰 教授/醫師 Dai, Cheng-Jie Professor / Doctor 梁文俐 副教授 Liang, Wen-Li Associate Professor 陳美全 助理教授 Chen, Mei-Chuan

Assistant Professor 李佳蓉 助理教授

Lee, Chia-Jung Assistant Professor



中药全球化联盟

S CONSORTIUM FOR GLOBALIZATION OF CHINESE MEDICINE

National Taiwan University



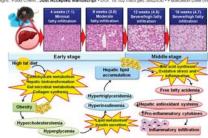
國立臺灣大學食品科技研究所 Institute of Food Science and Technology,

National Taiwan University



Prof. Lee-Yan Sheen

Mass spectrometry-based serum metabolomics of a C57BL/6J mouse model of high-fat diet induced nonalcoholic fatty liver disease development an Lai, Wei-Cheng Chen, Tien-Chueh Kuo, Chi-Tang Ho, Ching-Hua Kuo, Yufeng e Tseng, Kuan-Hung Lu, Shih-Hang Lin, Suraphan Panyod, and Lee-Yan Sheen



AGRICULTURAL AND FOOD CHEMISTRY Prof. Ya-Ching Shen, School of Pharmacy





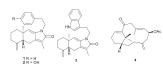




Prof. Shan's research subjects:

- 1. Randainins A-D, based on two new Diterpene skeletons, from Callicarpa randaiensis
- 2. Nortriterpene Lactones from the Fruits of Schisandra chinensis
 - 1. Fractionation of the ethanolic extract from the fruits of S. chinensis furnished lancifodilactones B, C, E and I, wuweizidilactones A, B and I, wuweizidilactones C and D, and wuweizidilactone H, and three new nortriterpene lactones.







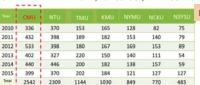


中 药全球化联盟 CONSORTIUM FOR GLOBALIZATION OF CHINESE MEDICIN

China Medical University, Taiwan, President Prof. Wen-Hwa Lee Prof. Heng-Hong Chang, Prof. Yang-Chang Wu

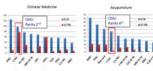
Performance Ranking of Chinese Medicine-related Scientific Papers for World Universities

Chinese Medicine Papers Published in Related Six Academic Area in Web of Science PHARMACOLOGY PHARMACY; FOOD SCIENCE TECHNOLOGY; INTEGRATIVE COMPLEMENTARY MEDICINE: TOXICOLOGY: PLANT SCIENCES: NUTRITION DIETETICS



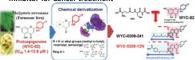
2309 1144 483





Research Center for Chinese Herbal Medicine

- > Cross-national collaboration: New drug development of Indigo naturalis Ointment for treating psoriasis
- Preclinical study of novel diabetic peptide drugs derived from Tian-Hwa-Fen
- Formosan Fern-derived Compound as GSTO Inhibitor for Cancer treatment



New drug development targeting Glioblastoma 2nd Generation drug of interstitial chemotherapy

NAU	Need Section Steel power lange Need you PGP secring with 1 St FEA. Need Continue Malor of SAP years manufacturing
person.	Sect Continue water planed start
Magi.	1 Place place 1 clinical road 2 that place the risecul trial
Min (a	1 Florid place No Direct risk 3 Report Chief that Assessed with 1994
pergr	I then place the desiral state
HINGE	T Floring State Th. States and T Wall come of the Th. States and
MON.	3. Continue colo gel 1005





Research Center for Chinese Medicine & Acupuncture

- Targeting TRPV1 for Body Weight Control using TRPV1-/- Mice and Electroacupuncture
- Electric stimulation of the ears ameliorated learning and memory impairment in rats with cerebral ischemia reperfusion injury
- Probing the Effects and Mechanisms of Electroacupuncture at Ipsilateral or Contralateral ST36-ST37 Acupoints on CFAinduced Inflammatory Pain
- Clinical and Translational Research of Acupuncture Treatment on Fibromyalgia Syndrome
- **Basic Clinical Translational Research on Acupuncture Treatment** of Neuropathic Pain
- Discover new acupuncture analgesic receptor: Orexin receptor
- Electroacupuncture at KI3 Acupuncture Point Restores Spatial Learning by Downregulating Phosphorylated NMDA Receptor in a Mice Parkinson's Model
- Auricular electroacupuncture reduced inflammation-related epilepsy accompanied by altered TRPA1, pPKClpha, pPKC ϵ , and pERk1/2 signaling pathways in kainic acid-treated Rats
- Basic and clinical studies of acupuncture treatment of chemotherapy-induced peripheral neuropathy
- SS-1 for Sjogren's syndrome in clinical study

中药全球化联盟 CONSORTIUM FOR GLOBALIZATION OF CHINESE MEDICINE

Chang Gung Memorial Hospital, TCM Center, Taiwan



The Chang Gung Memorial Hospital organization

- The development of this Research Centre is firmly embedded in the values and traditions of the organization. Central in these values are parsimony, goal orientation and social justice and they recognize the need for a strong connection between quality of healthcare, quality of education, and quality of educational research and development.
- A research center that will not only pursue own active research projects, but also will be the catalyst for the development of educational knowledge and expertise in the organization is therefore essential in the enactment of Chang Gung Memorial Hospital's vision. It will be strongly supported from the top of the organization.



中 药 全 球 化 联 盟 CONSORTIUM FOR GLOBALIZATION OF CHINESE MEDICIN

Sinphar Group, Taiwan





Achievements during 2015-2016 period

1) Lipucan ®:

- (1) Completed an anti-lung cancer preclinical study and published in "Journal of functional food" in 2016.
- (2) Patent approval for treating immune disorder in China, Canada, Korea, Japan between 2015-16.
 - (3) Patent approval for treating cachexia in Europe in 2015.
- (4) Patent approval for the treatment of lung cancer in the US and Taiwan in 2016

2) TianLif®:

- (1) Patent approval for treating amyloid beta-peptide associated disease or conditions in Singapore in 2015.
- (2) Patent approval for regulating blood glucose level in USA in 2016

3) EpigallinTM:

- (1) Patent approval for treating a disorder induced from myocardial ischemia in China and USA between 2015-16.
- (2) Completed a chronic stable angina clinical study and published in "Acta Cardiologica Sinica" in 2016.

中药全球化联盟

CONSORTIUM FOR GLOBALIZATION OF CHINESE MEDICIN

3i Plant Factory Group (3i Herbal Plant Factory)



Production no pesticides, no Industrial-scale production of heavy metals Chinese herbal high-quality Chinese herbal medicine 無農藥、無重金屬 產業量化規模生產 藥用植物 高質量藥用植物 **Our Goals** 企業使命 Promote development of Promote market development Chinese herbal medicine of Chinese herbal medicine internationally 促進藥用植物市場發展 草藥全球化市場的流通





The world's first mass-produced

Anoectochilus, Dendrobium and Antrodia cinnamomea plant factory



Thank you for your attention!



Hope you can enjoy your trip in Taiwan and be happy everyday, Have fun!

17