

CGCM 21th Annual Meeting

Regional Report

Taiwan Chapter

Local Chapter Coordinator: **Prof. Yi-Tsau Huang** 黃怡超

Secretary General: **Prof. Shu-Ling Fu** 傅淑玲

Phitsanulok, Thailand

August 19-21, 2025



中药全球化联盟

CONSORTIUM FOR
GLOBALIZATION OF
CHINESE MEDICINE



of Chinese Medicine





中药全球化联盟

CONSORTIUM FOR
GLOBALIZATION OF
CHINESE MEDICINE

The 21st Meeting of the Consortium for Globalization of Chinese Medicine



CGCM in Taiwan



陽明交通大學





中药全球化联盟

CONSORTIUM FOR
GLOBALIZATION OF
CHINESE MEDICINE

The 21st Meeting of the Consortium for Globalization of Chinese Medicine



Board of Directors



Chairman

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



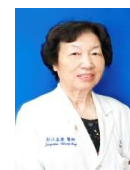
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China Medical University

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Taipei Cancer Center,
Taipei Medical University

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Distinguished Research Fellow and Professor
Agricultural Biotechnology Research Center,
Academia Sinica, Taiwan

Chairman, CGCM Taiwan Chapter



Prof. Yi-Tsau Huang
Yang Ming Chiao Tung university

Secretary General



Prof. Prof. Shu-Ling Fu
Yang Ming Chiao Tung university

Local Chapter Coordinators (23)

1. Institutional Members (18)
2. Industrial Affiliate Members (5)



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CONSORTIUM FOR GLOBALIZATION OF CHINESE MEDICINE



衛生福利部國家中醫藥研究所

National Research Institute Of Chinese Medicine, MOHW



Key Initiatives and Development Strategy

中醫特色的預防醫學
與居家醫療

Preventive
Medicine and
Home Care with
TCM

整合研究與臨床資源

Integration of
Research and
Clinical
Resources

中藥規格化與標準化
Standardization
of Chinese
Medicine

建置中醫藥知識庫
Establishment of
TCM Knowledge
Database

國際合作與人才培育
International
Cooperation and
Talent Training

Drug Development Achievements

(New TCM prescription)



COVID-19 pandemic

「臺灣清冠一號」
Taiwan Chingguan
No.1 (NRICM101)

「臺灣清冠二號」
Taiwan
Chingguan No.2
(NRICM102)

COVID-19



Chronic
Respiratory
Diseases



Improving cognitive
function in Alzheimer's
disease.



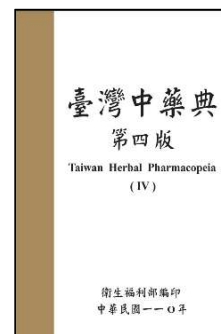
「清腦一號」
Taiwan Qingnao
No.1 (NRICM201)

「醒腦一號」
Xingnao No.1
(NRICM301)

Improving post-stroke
survival and cognitive
recovery



qaTCM database: 中藥品質分析資料庫
(<http://qatcm.nricm.edu.tw/index.php>)

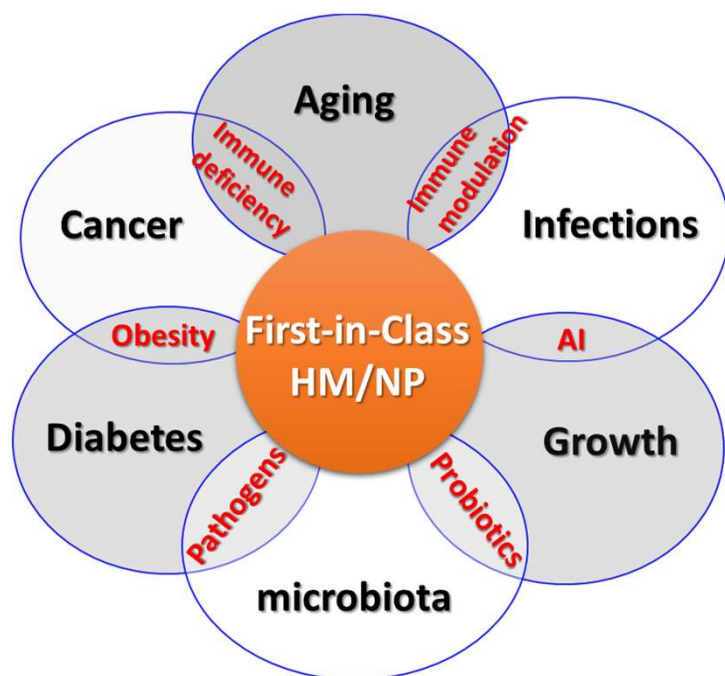


- ◆ More than 200 TCM items were studied. (2014 – 2024)
- ◆ Most of results were accepted and recorded in the Taiwan herbal pharmacopoeia (IV).
- ◆ A database (qaTCM) was established for public inquiry.

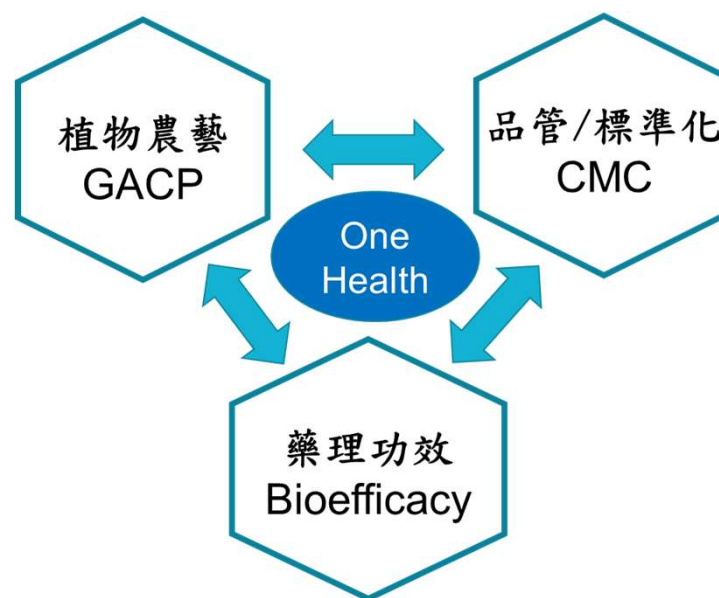


R&D of phytomedicines for human and animal healthcare

Agricultural Biotechnology Research Center, Academia Sinica, Taipei



Herbal medicine (HM)/Natural product (NP)



Good agriculture collection practice (GACP, WHO)
Chemistry, manufacturing and control (CMC)



Lie-Fen Shyur



Wen-Chin Yang



Pei-Wen Hsiao



Yu-Liang Yang



Yu-Ling Lin



Hui-Ming Chen



Tai-Na Wu



Yu-Chuan Liang

Agricultural Biotechnology Research Center, Academia Sinica, Taipei

Selected Publications: (2024-2025)

1. Wu, Y.-S., Lin, H.-H., Wu, K.-S., Huang, Y.-T., Liao, J.-Y., Chu, S.-S., Wong, T.-T., Hsieh, C.-L., Chang, C.-C., Sung, S.-Y., Lin, C.-Y., and **Lin, Y.-L.*** (2025) 7,7"-Dimethoxyagastisflavone induced MYCN/MYBL2-dependent apoptosis and metabolism reprogramming in Sonic Hedgehog medulloblastoma. **Biomedicine & Pharmacotherapy** (Accepted).
2. Coquel, F, Ho, S.Z., Tsai, K.C., Devin, J., Chang, T.H., Kong-Hap, M., Bioteau, A., Moreaux, J., Maiorano, D., Pourquier, P., **Yang, W.C.***, Lin, Y.L.*, Pasero, P.* (2025) Synergistic effect of inhibiting CHK2 and DNA replication on cancer cell growth, **eLife**, 13:RP104718
3. Lee, Y.S., Ortega, C., Kuo, T.F., Yang, Y.L. and **Yang, W.C.*** (2025) The roles and therapeutic potentials of protein disulfide isomerase A4 and its natural inhibitors in cancer, diabetes, and thrombotic disorders, **Food Frontiers**, 10.1002/fft2.70059
4. Chang, C.-T., Chen, Y.-H., and **Shyur, L.-F.*** (2024) Phytocompounds from essential oil of *Mentha aquatica* Lime Mint prevent vemurafenib-promoted skin carcinogenesis via inhibiting HRASQ61L keratinocyte and reprogramming macrophage activities. **Phytomedicine** 122, 155161.
5. Lien, Y.-Y.#, **Shyur, L.-F.#**, Cheng, Y.-B., Chang, M.-T., Chang, C.-T., Chen, Y.-H., Lai, G.-H., Liao, H.-Y., and Cheng, M.-C.* (2024) *Trifolium pratense* as a novel phytogetic supplement, is an anticoccidial agent in chickens. (# co-first authors) **Poultry Science** 103, 104064.
6. **Tai-Na Wu#***, Jung-Tung Hung*, Tsai-Hsien Hung, Ya-Hui Wang, Jen-Chine Wu, and Alice L. Yu. (2024) Effective suppression of tumor growth and hepatic metastasis of neuroblastoma by NKT-stimulatory phenyl glycolipid. **Biomedicine & Pharmacotherapy**, 177, 117040.
7. Cheng, Y.-T., Chang, D.-M., Tung, Y.-C., Hsiao, P.-W., Nakagawa-Goto, K., and **Shyur, L.-F.*** (2024) Phytosesquiterpene lactones deregulate mitochondrial activity and phenotypes associated with triple-negative breast cancer metastasis. **Phytomedicine** 135, 156226.
8. Bui, D.T., Lee, Y.S., Kuo,T.F., Cheng, Z.W., **Yang, W.C.*** (2024) Novel Experimental Mouse Model to Study the Pathogenesis and Therapy of *Actinobacillus pleuropneumoniae* Infection. *Pathogens* , 13 :412
9. Lin, H.-H., Wu, Y.-S., Chang, M.-T., **Shyur, L.-F.**, and **Lin, Y.-L.*** (2024) Plant-derived galactolipids enhance specific antibody production and induce class-switch as vaccine adjuvant. **Vaccine** 42, 782.
10. Lee Y.-S., Umam, K., Kuo, T.-F., **Yang, Y.-L.**, Feng, C.-S., **Yang, W.-C.*** (2024) Functional and mechanistic studies of a phytogetic formulation, Shrimp Best, in growth performance and Vibriosis in whiteleg shrimp. **Scientific Report**, 14, 11584.

Patents: 11 patents pending or issued

The **21st** Meeting of CGCM





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Taiwan University

臺灣大學食品科技研究所

Distinguished Prof. Lee-Yan Sheen



Investigating the antidepressant-like effects of mushrooms (菇類) and *Gastrodia elata* Blume (天麻) in stress-induced rat models, alongside an evaluation of their safety.

Forced swimming test (FST) (強迫游泳試驗)
and unpredictable chronic mild stress test
(UCMS) (非預期性慢性溫和壓力試驗)



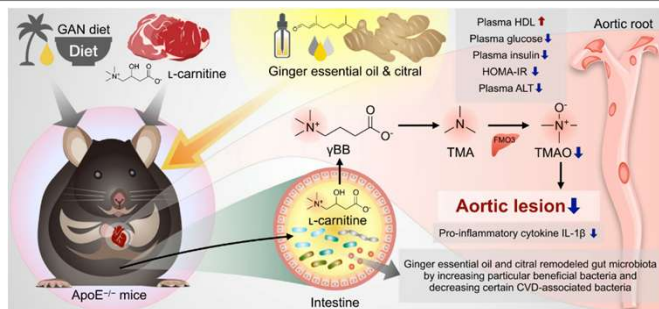
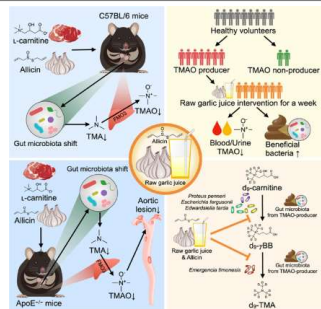
28-day subacute oral toxicity assessment
(28天亞急性毒性試驗)



Genotoxicity assays 基因毒性試驗



Investigating the effects of functional foods, specifically garlic (大蒜) and ginger essential oil (薑精油), on cardiovascular disease prevention through gut microbiota-host interaction.

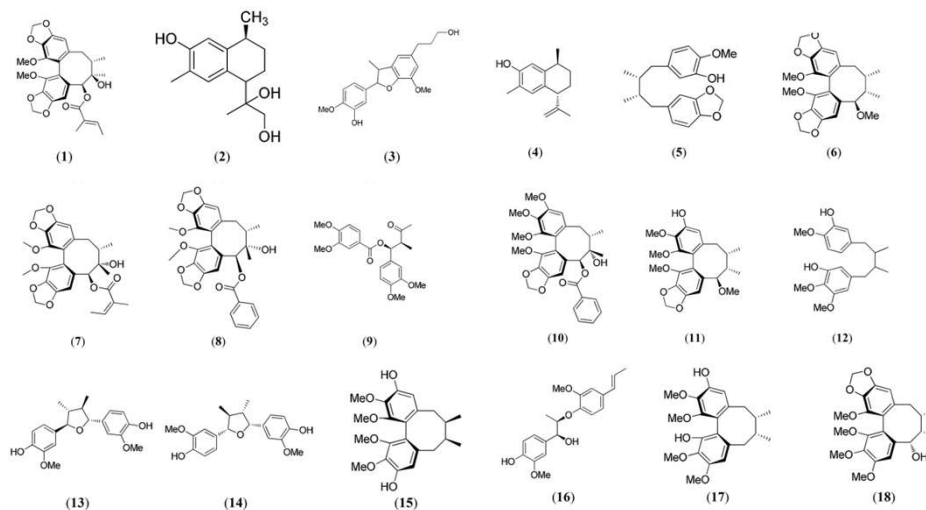


Prof. Ya-Ching Shen,
School of Pharmacy



Prof. Shen's research subjects :

In addition to eighteen known compounds, three new compounds have been isolated from the stems of *Schisandra arisanensis* Hayata, an endemic species in Taiwan. Compound **1** is a dibenzocyclo-octadiene lignan with C18 skeleton. Compound **2** is a sesquiterpene. Compound **3** is a dihydrobenzofuran 8,3'-lignan. The structures of these new compounds were established on the basis of spectroscopic methods, especially 2D NMR (COSY, HMQC, HMBC, ROESY) and HRESIMS. Anti-tumor cytotoxic and anti-oxidative activities of the isolated compounds were evaluated.





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Graduate Institute of
Pharmacognosy



College of Pharmacy



Ph.D. program for the Clinical
Drug Development of Herbal
Medicine



臺北醫學大學
TAIPEI MEDICAL UNIVERSITY



Department of Traditional
Chinese Medicine

Hospital





Traditional Herbal Medicine Research Center

Research areas	Clinical herbal medicine translational research and development							
	Basic research				Translational research		Clinical research	
	Natural products	Organic synthesis	Pharmacology and toxicology	Molecular biology	Chinese herbal medicine resource	Biotechnology	Clinical research and trial	Pharmacokinetic
Faculty	Lee, Ching-Kuo Lai, Kuei-Hung	Huang, Wei-Jan Hsieh, Yves	Wu, Chieh-Hsi	Chen, Mei-Chuan	Wang, Ching-Chiung Lee, Mei-Hsien Hou, Wen-Chi	Chuang, Kuo-Hsiang Lin, Ruo-Kai	Dai, Cheng-Jie Tseng, Sung-Hui Lee Yuan-Wen	Lee, Chia-Jung

➤ Education objectives

- To cultivate biotech professionals with humanistic qualities and reflective practices.
- To cultivate health-oriented, interdisciplinary and multi-innovation talents in the biomedical industry.
- To cultivate pharmacognosy biotech professionals with global vision and leadership.
- To cultivate professionals with biotech related legal literacy.

➤ Publication: 01/01/2024~08/06/2025

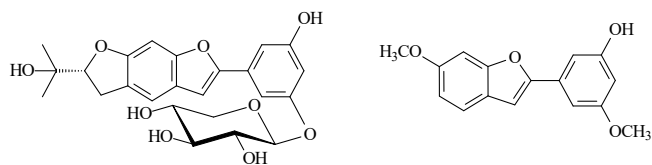
Institution	0<=IF<5	5<=IF<10	IF>=10	number of articles	Average of IF
 Graduate Institute of Pharmacognosy	45	25	1	71	4.807
 Ph.D. program for the Clinical Drug Development of Herbal Medicine	38	17	1	56	4.527



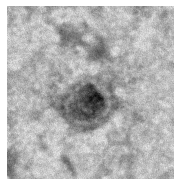
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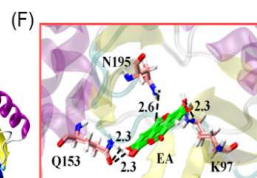
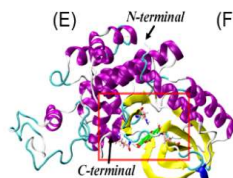
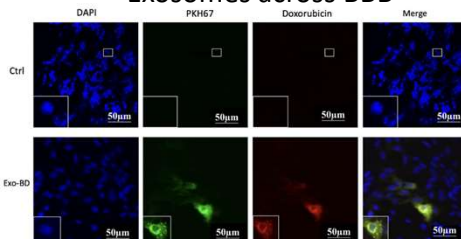
(2) Department of Pharmacy (藥學系)
College of Pharmaceutical Sciences (藥物科學院)



Exosome (TEM)



Exosomes across BBB



Binding affinity: -8.7 kcal/mol



陽明交通大學

(3) School of Chinese Medicine
(中醫系)-est. 2024

➤ New Chinese Medicine Physician

✓ Chinese herbal medicine development

- Identification of new components
- Mechanism of anticancer drugs
- Herbal medicine alleviates the side effects of clinical drugs
- Chinese medicinal cuisine

✓ Interaction between Chinese and Western medicine

- Pharmacokinetics
- Drug delivery system
 - National Research Institute of Chinese Medicine
 - Yang-Ning Campus
 - College of Engineering Bioscience

Promotion of TCM

- ✓ Modern Evidence-Based Medicine in TCM
- ✓ TCM Policy and Internationalization
- ✓ TCM Promotion Course

- Taipei City Hospital
- Taipei Veterans General Hospital
- National Research Institute of Chinese Medicine

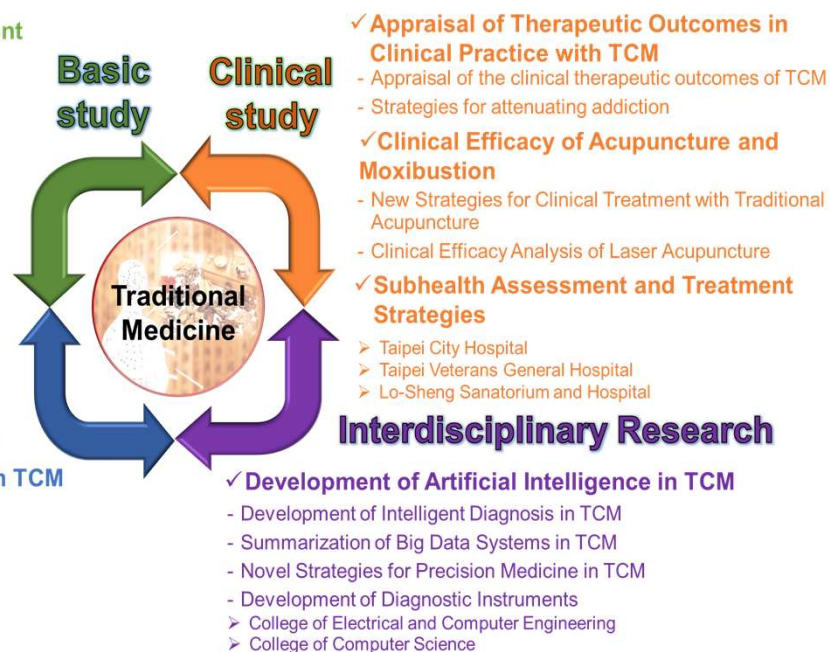
(1) Institute of Traditional Medicine



傳統醫藥研究所

est. 1998

- ✓ Evidence-based
 - ✓ Scientization
 - ✓ Internationalization
 - ✓ Industrialization
- Master
➤ PhD





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School of Traditional Chinese Medicine, Chang Gung University, Taiwan

- 1987.04 ● Chang Gung Medical College
- 1993.08 ● Chang Gung College of Medicine and Technology
- 1997.08 ● Chang Gung University
- 1998.08 ● School of TCM
- 1999.08 ● Graduate Institute of Natural Products
- 2000.08 ● Graduate Institute of Traditional Chinese Medicine

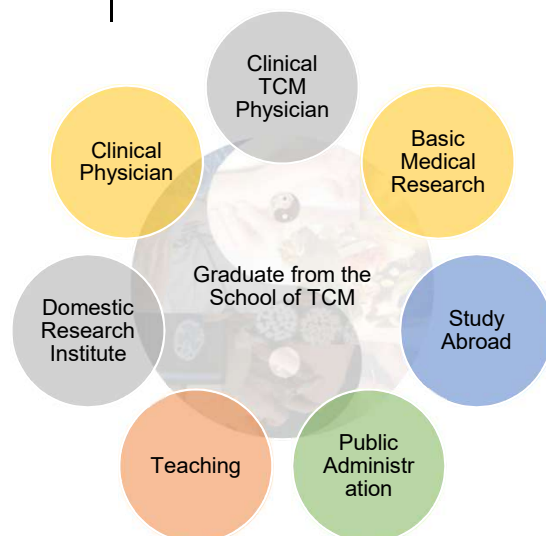


◆ TCM education center

was established in 2021.

◆ Interactive learning space.

◆ Introducing VR-assisted teaching to improve acupuncture clinical treatment safety.



Complete Internship Opportunities



Keelung



Taoyuan



Tucheng



Taipei



Linkou



Chiayi



Kaohsiung



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Chung Hsing University

- Deciphering the composition of phytoncides and exploring their potential therapeutic activities.
- Investigation of the heartwood formation mechanism and biosynthesis of extractives in *Taiwania cryptomerioides*.
- Deciphering the regulation activity on SARS-CoV-2 spike protein-mediated metabolic alteration in THP-1 cells explored by the ^1H -NMR-based metabolomics approach.



Dr. Sheng Yang Wang
Distinguished Professor

College of Agriculture and Natural Resources
Academy of Circular Economy



Dr. Gow Chin Yen
Chair Professor

- Developing functional foods to regulate colitis through gut bacteria.
- Studying the inhibition and mechanisms of functional foods on pancreatic cancer.
- Researching the effects of the teaghrelin on the human body.
- Investigating the activity analysis of traditional Chinese herbal medicines.



Dr. Nai Wen Tsao
Assistant Professor



Dr. Jason T. C. Tzen
Chair Professor



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China Medical University (CMU) and Hospitals

Ranked Top **1** in among private universities in Taiwan
Ranked **66** in the 2025 THE Asia University Rankings
Ranked **301-350** in the 2025 THE University Rankings
Ranked **314** in the 2025-2026 US News & World Report Rankings
Ranked **421** in the 2024 ARWU Shanghai Rankings
Including **9 Colleges**: Medicine, Pharmacy, Health Care, Dentistry, Public Health, Medical Engineering, Life Science, Humanities and Technology, and **Chinese Medicine**.

College of Chinese Medicine

- School of Chinese Medicine (7-year M.D.) (M.D., M.S., Ph.D.)
- Post-Baccalaureate School of Chinese Medicine (5-year M.D.)
- School of Chinese Pharmaceutical Sciences and Chinese Herbal Resource (BS, M.S., Ph.D.)
- Graduate Institute of Integrated Medicine (M.S., Ph.D.)
- Graduate Institute of Acupuncture Sciences (M.S., Ph.D.)
- International Master Program in Acupuncture (M.S.)
- International Master Program in Integrative Health (M.S.)
- EMI (English as a Medium for Instruction) Bilingual Education Program

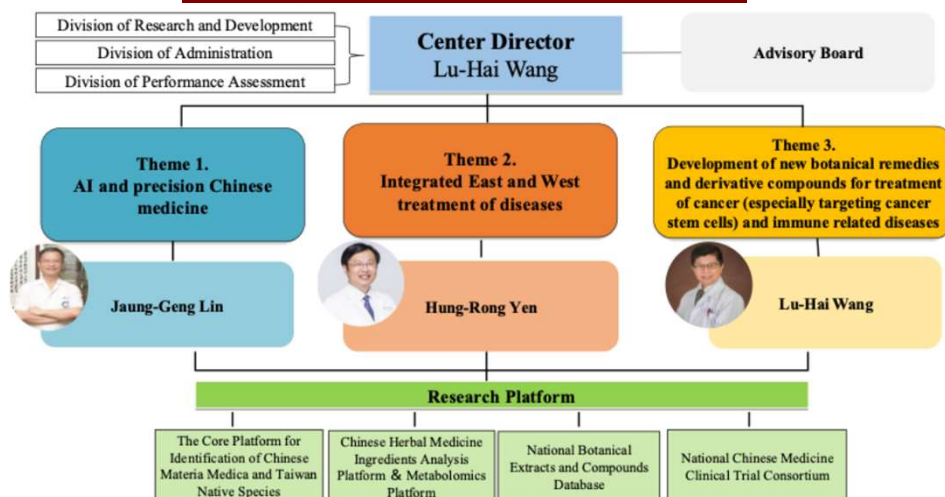
Department of Chinese Medicine at CMUH



- Integration of Chinese and Western Medicine
- World's **Best** Hospital & **Best Smart** Hospital



Chinese Medicine Research Center





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高雄醫學大學 Kaohsiung Medical University

1. Establish unique plant extract libraries and high-throughput high-content bioimage platforms screening.
2. Discovery of novel agents on topics of (1) neuroprotection, (2) anticancer; (3) immunomodulation, (4) antiplatelet, (5) metabolic disorders, and (6) new emerging pathogens from natural occurring substances .
3. Investigation of TCM formulas prescription in Taiwan.





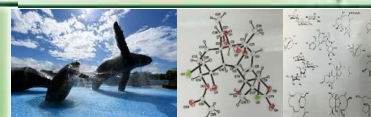
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Museum of Marine Biology & Aquarium

Planning & Research Division



Marine Natural Products

Sampling

Identification

Culture

Extraction

Purification

Structure id

Bio-screening

Animal test

Amplify

Lead drugs

Research Expertise

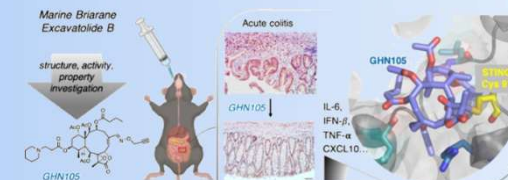
Research Subject

Ping-Jyun Sung



1. Marine Natural Products
2. Organic Structure Analysis
3. Chromatographic Techniques

1. Studies on the bioactive natural products from marine invertebrates

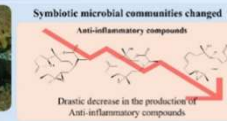
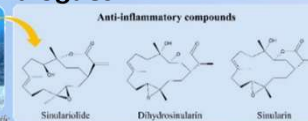


Jui-Hsin Su



1. Natural products chemistry
2. Structural elucidation of organic compounds

1. Study on the bioactive natural products from the sponges and octocorals and investigation on the synthesis and bioactivities of related analogues

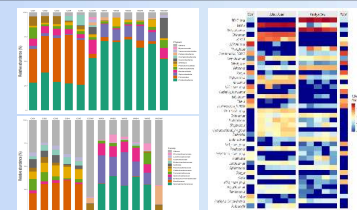


Jimmy Kuo



1. Marine Microbiology
2. Bioinformatics
3. Biochemical Engineering

1. Isolation and Screening Marine Microorganisms for Novel Natural Products
2. The Bacterial Community Composition and Structure of Water from an Aquaculture System
3. Analysis of Codon Usage Pattern of Bacterial Genomes



About CSMU University Overview

Organization

Academic Units

4 colleges 2 centers

20 departments

20 master's programs

5 doctoral programs

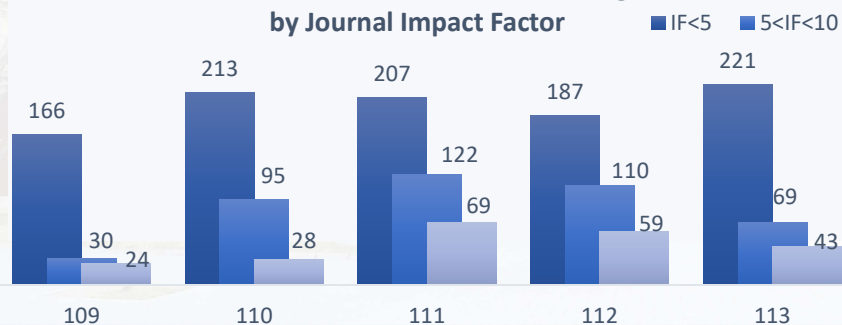
2 professional master's programs

1 in-service program(2year)

Administrative Units

17

Five-Year Trends in SCI Publications Categorized
by Journal Impact Factor



WORLD'S
TOP 2%

SISTER SCHOOL
110+

WORLD'S TOP 2% SCIENTISTS IN CSMU



Gee-Chen, Chang



Cheng-Chung, Wei



Yu-Chao, Chang



Shinn-Jyh, Ding



Cheng-Yang, Huang



Hsiang-Chu, Pai



Shun-Fa, Yang



Chuan-Hang, Yu



Chau-Jong, Wang



Han-Shen, Chen



® 杏輝醫藥集團
SINPHAR GROUP

Organic farm &
Phytonutrient



Memoregain® TLCT Plus

(*Cistanche tubulosa* extracts)

- ✓ **39 patents granted in 17 countries:** prevent and treatment dementia, enhance memory in healthy people, promote neurite outgrowth, regulate blood glucose, protect muscle damage etc.
- ✓ **6 SCI publication**

Prodemax™

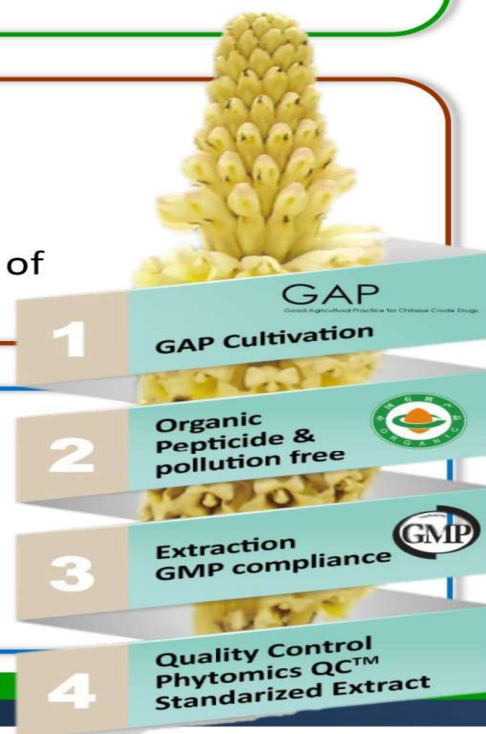
(Walnut oligopeptide)

- ✓ **8 patents pending:** manufacture process, anti-PM2.5, anti-fatigue
- ✓ **1 SCI publication :** A simple and convenient method for the preparation of antioxidant peptides from walnut (*Juglans regia* L.) protein hydrolysates.

Lipucan®

(*Poria cocos* triterpene)

- ✓ **59 patents granted in 17 countries:** enhance nutrients absorption, enhance immunity, anti-asthma, anti-cachexia, anti-lung cancer, and anti-diabetes etc.
- ✓ **2 SCI publication**





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SUN TEN PHARMACEUTICAL CO., LTD.

About Sun Ten

- Philosophy** : All nature-made, authentically preserved, efficacious and safe herbal extracts to safeguard your health.
- Founder** : Dr. Hong-Yen Hsu, Father of Scientific Chinese Herbal Extracts in Taiwan.
- Establish in** : 1946, over 70 years.
- Products Portfolio** : Traditional Chinese Herbal Extracts, Quality Medicinal Chinese Herbs, Over the Counter Products, ODM & OEM service.
- Global Distribution** : More than 20 countries, including the United States, Canada, Japan, Malaysia, Singapore, Australia, New Zealand, Switzerland, Germany, United Kingdom, Ireland, Sweden, Macau, Indonesia, etc.

Raw Material Superiority

Supplier Management

Only obtain the raw materials from contracted suppliers or private grower who strictly follow Sun Ten quality standards. Herb authenticity and quality are secured.

Source Management

Traceability & Transparency for every batch.

Herb Sourcing Team

On-site quality inspection, suppliers and partner survey are conducted every year.

Manufacturing Excellence

Sun Ten is a leading manufacturer of traditional Chinese herbal extracts, producing dosage forms of powder, granule, tablet, capsule, honey pills and so on. As a manufacturer, Sun Ten also functions as full service OEM/private-label and ODM with well-experienced research and development expertise.

Testing Standard

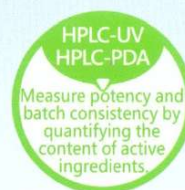
The People's Republic of China Pharmacopoeia

Japanese Pharmacopoeia

European Pharmacopoeia

United States Pharmacopoeia

Quality Warranty with Advanced Facility



RD / QC
Certificate



FDA



Japan Accreditation
Certification of Foreign
Drug Manufacturer

APP





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CONSORTIUM FOR GLOBALIZATION OF CHINESE MEDICINE

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



Production no pesticides, no heavy metals Chinese herbal medicine

無農藥、無重金屬
藥用植物

Industrial-scale production of high-quality Chinese herbal medicine

產業量化規模生產
高質量藥用植物

Our Goals
企業使命

Promote market development of Chinese herbal medicine
促進藥用植物市場發展

Promote development of Chinese herbal medicine internationally
促進中草藥全球化市場的流通



The world's first mass-produced
Anoectochilus, *Dendrobium* and *Antrodia cinnamomea* plant factory

CGCM 21th Annual Meeting

Taiwan Chapter



Thanks for your attention!

