



Good Practice in Traditional Chinese Medicine Research Association 中医药规范研究学会

March-April 2023 Newsletter

Editor-in-chief

Clara Bik-San Lau
(claralau@cuhk.edu.hk)

Deputy Editor

Simon Ming Yuen Lee
(SimonLee@um.edu.mo)

Section Editor

-Chinese Materia Medica
Ping Guo
(s193231@hkbu.edu.hk)

Executive Editor

Jess Kit leng Kuok
(jesskuok@um.edu.mo)



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i The 11th GP-TCM RA Annual Meeting will be held on 18-20 September, 2023 in Leiden, Netherlands.



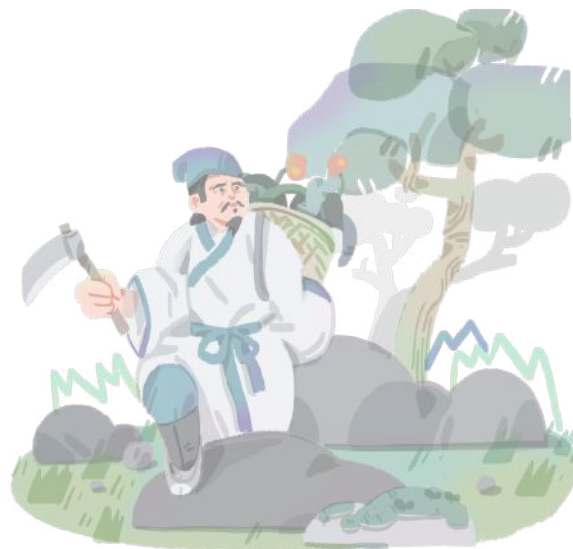
The 11th GP-TCM RA Annual Meeting

Date: 18-20/09/2023

Location: Leiden, The Netherlands



The 11th GP-TCM RA Annual Meeting will be held in Leiden, the Netherlands on 18-20 September 2023. More details will be announced later.





New members of GP-TCM RA (March - April 2023)

Ordinary Members

Xiaoying Zhang

Shaanxi University of Technology, China





<p>China Medical University, Taichung, Taiwan (Department of Chinese Pharmaceutical Sciences and Chinese Medicine Resources)</p>	
<p>Dalian Fusheng Natural Medicine Development Co. Ltd., China</p>	
<p>Guangdong Provincial Hospital of Chinese Medicine, China</p>	
<p>Heilongjiang University of Chinese Medicine, China</p>	
<p>Hong Kong Baptist University, Hong Kong SAR, China (School of Chinese Medicine)</p>	
<p>Hutchison Whampoa Guangzhou Baiyunshan Chinese Medicine Co. Ltd., China</p>	
<p>Infinitus (China) Company Ltd., China</p>	
<p>Institute of Chinese Medicine, The Chinese University of Hong Kong, Hong Kong SAR, China</p>	
<p>PuraPharm International (H.K.) Ltd., Hong Kong SAR, China</p>	
<p>Shanghai Hutchison Pharmaceuticals, China</p>	
<p>Shanghai University of Traditional Chinese Medicine, China (School of Pharmacy)</p>	
<p>Zhejiang Chinese Medical University, China (School of Pharmaceutical Sciences)</p>	
<p>Zhengzhou University of Industrial Technology, China</p>	





i In wake of gene-edited baby scandal, China sets new ethics rules for human studies

NEWS | BIOLOGY

In wake of gene-edited baby scandal, China sets new ethics rules for human studies

Revised regulations require greater disclosure by scientists and more protections for study participants

7 MAR 2023 · 3:45 PM · BY DENNIS NORMILE



A version of this story appeared in

Science Vol 379, Issue 6636.

Nearly 5 years after a Chinese scientist sparked worldwide outrage by announcing he had helped create genetically edited babies, China has unveiled new rules aimed at preventing a repeat of such ethically problematic research on humans.

Many researchers welcome the new regulations, which set requirements for ethics reviews of research involving humans and human materials such as tissue, fertilized eggs, and embryos. The new rules extensively revise regulations adopted in 2016 and aim to close loopholes exposed by biophysicist He Jiankui in 2018 when he claimed his team had made heritable alterations to the DNA of human embryos that were later born as twin girls. He spent 3 years in prison for conducting “illegal medical practices.”

News and photo adapted from link below:

<https://www.science.org/content/article/wake-gene-edited-baby-scandal-china-sets-new-ethics-rules-human-studies>



ii

Permanent secretariat of Western Pacific Regional Forum for Harmonization of Herbal Medicines to be established at UM



澳門大學
UNIVERSIDADE DE MACAU
UNIVERSITY OF MACAU

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Permanent secretariat of Western Pacific Regional Forum for Harmonization of Herbal Medicines to be established at UM



The permanent secretariat of the Western Pacific Regional Forum for the Harmonization of Herbal Medicines (FHH) will be established at the University of Macau (UM). The secretariat will assist the Macao SAR government in promoting economic diversification by developing the Chinese medicine industry into a signature industry of Macao, so as to elevate the role of Macao in the international development of Chinese medicine.

According to the Second Five-Year Plan for Economic and Social Development of the Macao SAR (2021-2025), Chinese medicine R&D and manufacturing is an entry point to the development of the health industry in economic diversification of Macao. The Chinese medicine industry is also listed as a signature industry of Macao and one of the new industries for promoting economic diversification of the city in the Master Plan of the Development of the Guangdong-Macao Intensive Cooperation Zone in Hengqin. As an international public comprehensive university in Macao, UM is dedicated to promoting the Chinese medicine industry in the city and has established the State Key Laboratory of Quality Research in Chinese Medicine, the first laboratory of its kind in the field. Over the years, the university has attained outstanding achievements in industrial cooperation, talent development, the establishment of international cooperation platforms, as well as the standardisation and internationalisation of Chinese medicine. The establishment of the permanent secretariat of FHH at UM will support the forum in further leveraging its role as a platform as well as its international influence.

News and photo adapted from link below:

<https://www.science.org/content/article/wake-gene-edited-baby-scandal-china-sets-new-ethics-rules-human-studies>

i

Natural Products Chemistry of Global Plants Series

Series Editor: Clara Bik-San Lau

Founding Series Editor: Raymond Cooper

Details: <https://www.routledge.com/Natural-Products-Chemistry-of-Global-Plants/book-series/CRcNPcGP>



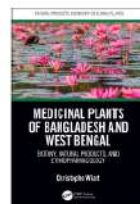
Traditional Herbal Remedies of Sri Lanka

Edited by Viduranga Y. Waisundara

March 2019 180pp

hb: 978-1-138-74308-3: £120.

www.routledge.com/9781138743083



Medicinal Plants of Bangladesh and West Bengal

Botany, Natural Products, & Ethnopharmacology

By Christophe Wiat, May 2019 302pp

hb:978-1-138-73516-3: £115.

www.routledge.com/9781138735163



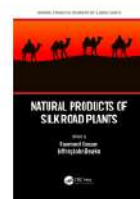
Brazilian Medicinal Plants

Edited by Luzia Valentina Modolo, Mary Ann Foglio

November 2019 358pp

hb:978-1-138-09375-1: £150

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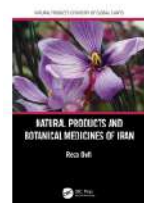
Natural Products of Silk Road Plants

Edited by Raymond Cooper, Jeffrey John Deakin

September 2020 304pp

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Natural Products and Botanical Medicines of Iran

By Reza Eddin Owfi

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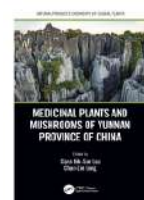
Medicinal Plants of Borneo

Edited by Simon Gibbons, Stephen P. Teo

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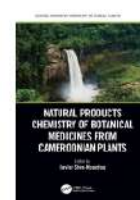
Medicinal Plants and Mushrooms of Yunnan Province of China

Edited by Clara Bik-San Lau, Chun-lin Long

June 2021- 322pp

pb: 978-1-032-02338-0: £99.99

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Natural Products Chemistry of Botanical Medicines from Cameroonian Plants

Edited by Xavier Siwe-Noundou

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Medicinal Plants of Ecuador

Edited by Pablo Chong Aguirre, Migdalia Miranda Martinez

Patricia Manzano Santana

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Medicinal Plants of Laos

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Kongmany Sydara

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This unique book series focuses on the natural products chemistry of botanical medicines from different countries such as Turkey, Sri Lanka, Bangladesh, Vietnam, Brazil, China, S. Africa, Thailand, Borneo, Cameroon, Uganda and Madagascar, These fascinating volumes are written by experts from their respective countries. The series will focus on the pharmacognosy, covering recognized areas rich in folklore as well as botanical medicinal uses as a platform to present the natural products and organic chemistry. Where possible, the authors will link these molecules to pharmacological modes of action. The series intends to trace a route through history from ancient civilizations to the modern day showing the importance to man of natural products in medicines, in foods and a variety of other ways.



A novel strategy for bioactive natural products targeting NLRP3 inflammasome in Alzheimer's disease

Author:

Zhiyou Yang, Junxin Liu, Shuai Wei, Jiahang Deng, Xinyue Feng, Shucheng Liu and Mingxin Liu.

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Chuan-Ling Si,
Tianjin University of Science and
Technology, China

REVIEWED BY
Luhui Li,
Mudanjiang Medical University, China
Allah Nawaz,
University of Toyama, Japan
Yanhong Shi,
Shanghai University of Traditional Chinese
Medicine, China

*CORRESPONDENCE
Shuai Wei,
✉ weishuaiwei@126.com
Mingxin Liu,
✉ liumx@gdou.edu.cn

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A novel strategy for bioactive natural products targeting NLRP3 inflammasome in Alzheimer's disease

Zhiyou Yang^{1,2}, Junxin Liu¹, Shuai Wei^{1,2*}, Jiahang Deng¹, Xinyue Feng¹, Shucheng Liu^{1,2} and Mingxin Liu^{3*}

¹Guangdong Provincial Key Laboratory of Aquatic Product Processing and Safety, Guangdong Province Engineering Laboratory for Marine Biological Products, Guangdong Provincial Engineering Technology Research Center of Seafood, Key Laboratory of Advanced Processing of Aquatic Product of Guangdong Higher Education Institution, College of Food Science and Technology, Guangdong Ocean University, Zhanjiang, China, ²Collaborative Innovation Centre of Seafood Deep Processing, Dalian Polytechnic University, Dalian, China, ³College of Electrical and Information Engineering, Guangdong Ocean University, Zhanjiang, China

Alzheimer's disease (AD), the most common type of dementia, is an ageing-related progressive neurodegenerative brain disorder. Extracellular neuritic plaques composed of misfolded amyloid β ($A\beta$) proteins and intracellular neurofibrillary tangles formed by hyperphosphorylated tau protein are the two classical characteristics of AD. $A\beta$ and tau pathologies induce neurite atrophy and neuronal apoptosis, leading to cognitive, language, and behavioral deficits. For decades, researchers have made great efforts to explore the pathogens and therapeutics of AD; however, its intrinsic mechanism remains unclear and there are still no well-established strategies to restore or even prevent this disease. Therefore, it would be beneficial for the establishment of novel therapeutic strategy to determine the intrinsic molecular mechanism that is interrelated with the initiation and progression of AD. A variety of evidence indicates that neuroinflammation plays a crucial role in the pathogenesis of AD. Nucleotide-binding oligomerization domain (NOD)-like receptor pyrin domain-containing protein 3 (NLRP3) is a key inflammasome sensor of cellular stress and infection that is involved in the innate immune system. In response to a wide range of stimuli like $A\beta$, NLRP3 assembles apoptosis-associated speck-like protein (ASC) and procaspase-1 into an inflammasome complex to induce the caspase-1 mediated secretion of interleukin (IL)-1 β /IL-18 in M1 polarized microglia, triggering the pathophysiological changes and cognitive decline of AD. Therefore, targeting NLRP3 inflammasome seems an efficient path for AD treatment via regulating brain immune microenvironment. Furthermore, accumulating evidence indicates that traditional Chinese medicine (TCM) exerts beneficial effects on AD via NLRP3 inflammasome inactivation. In this review, we summarize current reports on the role and activated mechanisms of the NLRP3 inflammasome in the pathogenesis of AD. We also review the natural products for attenuating neuroinflammation by targeting NLRP3 inflammasome activation, which provides useful clues for developing novel AD treatments.

KEYWORDS

NLRP3 inflammasome, Alzheimer's disease, natural products, microglia polarization, neuroinflammation





The pathological mechanism of the COVID-19 convalescence and its treatment with traditional Chinese medicine

Author:

Linlin Jiang, Xuedong An, Yingying Duan, Fengmei Lian, De Jin, Yuehong Zhang, Cunqing Yang, Yuqing Zhang, Xiaomin Kang and Yuting Sun.

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Vincent Kam Wai Wong,
Macau University of Science and
Technology, Macao SAR, China

REVIEWED BY
Rolf Teschke,
Hospital Hanau, Germany
Yu-ling Ma,
University of Oxford, United Kingdom

*CORRESPONDENCE
Fengmei Lian,
✉ 694397644@qq.com

[†]These authors contributed equally to this work and share first authorship

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The pathological mechanism of the COVID-19 convalescence and its treatment with traditional Chinese medicine

Linlin Jiang^{1,2†}, Xuedong An[†], Yingying Duan^{1,2†}, Fengmei Lian^{1*}, De Jin¹, Yuehong Zhang¹, Cunqing Yang¹, Yuqing Zhang¹, Xiaomin Kang^{1,2} and Yuting Sun¹

¹Guang'anmen Hospital, China Academy of Chinese Medical Sciences, Beijing, China, ²Beijing University of Chinese Medicine, Beijing, China

The severe acute respiratory syndrome coronavirus - 2 (SARS - CoV - 2) was reported to cause the Wuhan outbreak of the corona virus disease 2019(COVID-19). To date, the COVID-19 has infected more than 600 million people globally. As a growing number of patients recover from acute infections and are discharged from hospitals, the proportion of patients in the recovery period is gradually increasing. Many of these individuals have been reported to experience multiple symptoms during the convalescence, such as fatigue, dyspnea and pain which are designated as "long-COVID", "post-COVID syndrome" or "recovery sequelae". We searched for recent articles published in PubMed on COVID-19 convalescence and found that the pathogenesis of COVID-19 convalescence is not yet well recognized. It may be associated with incomplete recovery of immune system, parenchymal organ damage (liver or lung), coagulation abnormalities, "second hit" caused by viral infection, and Phenomenon of Cell Senescence-Associated Secretory Phenotype (SASP). Some drugs and psychological factors of patients also play a non-negligible role in it. We also found that the effect of traditional Chinese medicine (TCM) is effective in the treatment of the COVID-19 recovery phase, which can not only relieve the corresponding symptoms, but also improve the indicators and pulmonary fibrosis. Bufe Huoxue Capsule, as the only drug explicitly mentioned for COVID-19 recovery period, can exert strong rehabilitative effects on physiological activity in patients recovering from COVID-19. In addition, in previous studies, traditional Chinese medicine has been confirmed to have the ability to resist cytokine storms, as well as improve coagulation and myocardial damage, which makes it have potential therapeutic advantages in targeting the hyperimmune response, coagulation abnormalities and myocardial damage existing in the recovery period. In conclusion, the clinical symptoms of patients convalescing from COVID-19 are complex, and its pathogenesis has not been elucidated. traditional Chinese

Abbreviations: SARS - CoV-2, severe acute respiratory syndrome coronavirus - 2; COVID-19, corona virus disease 2019; TCM, traditional Chinese medicine; SASP, Senescence-Associated Secretory Phenotype; CNKI, China National Knowledge Infrastructure; GGO, ground glass opacities; PT, physical therapy; OT, occupational therapy; AST, Aspartate Transaminase; D-BIL, direct bilirubin; ALT, alanine transaminase; NSAIDs, Nonsteroidal Anti-inflammatory Drugs; ACE2, angiotensin-converting enzyme II; PLT, platelet count; PT, prothrombin time; APTT, activated partial thromboplastin time; TT, thrombin time; FIB, fibrinogen; TdP, torsade de pointes; JHQG, Jinhua Qinggan granules; LHQW, Lianhua Qingwen capsules; XFBD, Xuanfei Baidu granules; HSBQ, Huashibaidu; XBJ, Xuebijing; CM, Chinese Medicine; CCP, convalescent COVID-19 prescription; BFHX, Bufe Huoxue capsules; KGF, keratinocyte growth factor; sigA, secretory immunoglobulin A.





Efficacy and safety of naotaifang capsules for hypertensive cerebral small vessel disease: Study protocol for a multicenter, randomized, double-blind, placebo-controlled clinical trial

Author: Rui Fang, Hua Hu, Yue Zhou, Shanshan Wang, Zhigang Mei, Ruining She, Xiwen Peng, Qiling Jiang, Xiangyuan Wang, Le Xie, Hongyuan Lin, Pan Meng, Kun Zhang, Wei Wang, Yao Xie, Litao Liu, Jiao Tong, Dahua Wu, Yunhua Luo, Chang Liu, Yifang Lu, Shangzhen Yu, Shaowu Cheng, Linyong Xu, Zhuyuan Fang, Hongcai Shang and Jinwen Ge.

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Xingjiang Xiong,
Guang'anmen Hospital, China Academy
of Chinese Medical Sciences, China

REVIEWED BY
Yi Ding,
Fourth Military Medical University, China
YinZhong Ma,
Shenzhen Institute of Advanced
Technology, Chinese Academy of
Sciences, China

*CORRESPONDENCE
Zhuyuan Fang,
jszyfz@163.com
Hongcai Shang,
shanghongcai@126.com
Jinwen Ge,
001267@hnuucm.edu.cn

†These authors have contributed equally
to this work

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Efficacy and safety of naotaifang capsules for hypertensive cerebral small vessel disease: Study protocol for a multicenter, randomized, double-blind, placebo-controlled clinical trial

Rui Fang ^{1,2†}, Hua Hu ^{3†}, Yue Zhou ^{1†}, Shanshan Wang ¹,
Zhigang Mei ¹, Ruining She ¹, Xiwen Peng ¹, Qiling Jiang ⁴,
Xiangyuan Wang ¹, Le Xie ⁵, Hongyuan Lin ¹, Pan Meng ¹,
Kun Zhang ⁶, Wei Wang ⁷, Yao Xie ⁵, Litao Liu ^{4,8}, Jiao Tong ⁹,
Dahua Wu ⁵, Yunhua Luo ¹⁰, Chang Liu ⁹, Yifang Lu ¹¹,
Shangzhen Yu ¹², Shaowu Cheng ¹, Linyong Xu ¹³,
Zhuyuan Fang ^{14*}, Hongcai Shang ^{1,15*} and Jinwen Ge ^{1,2*}

¹School of Integrated Chinese and Western Medicine, Hunan University of Chinese Medicine, Changsha, Hunan, China, ²Institute of Clinical Pharmacology of Chinese Materia Medica, Hunan Academy of Chinese Medicine, Changsha, Hunan, China, ³Neurology Department, The First Hospital of Hunan University of Chinese Medicine, Changsha, Hunan, China, ⁴School of Food and Chemical Engineering, Shaoyang University, Shaoyang, Hunan, China, ⁵Neurology Department, Hunan Academy of Chinese Medicine Affiliated Hospital (Hunan Provincial Hospital of Integrated Chinese and Western Medicine), Changsha, Hunan, China, ⁶Radiology Department, The First Hospital of Hunan University of Chinese Medicine, Changsha, Hunan, China, ⁷Health Management Department, The First Hospital of Hunan University of Chinese Medicine, Changsha, Hunan, China, ⁸Scientific Research Department, The First Affiliated Hospital of Shaoyang University, Shaoyang, Hunan, China, ⁹Neurology Department, The First Traditional Chinese Medicine Hospital of Changde (Changde Hospital Affiliated to Hunan University of Chinese Medicine), Changde, Hunan, China, ¹⁰Health Management Department, Hunan Academy of Chinese Medicine Affiliated Hospital (Hunan Provincial Hospital of Integrated Chinese and Western Medicine), Changsha, Hunan, China, ¹¹Health Management Department, The First Affiliated Hospital of Shaoyang University, Shaoyang, Hunan, China, ¹²Neurology Department, Jiangmen Wuyi Hospital of Traditional Chinese Medicine (Jiangmen Hospital of Traditional Chinese Medicine Affiliated to Jinan University), Jiangmen, Guangdong, China, ¹³School of Life Sciences, Central South University, Changsha, Hunan, China, ¹⁴Jiangsu Province Innovation Center of TCM

Abbreviations: ACEI, angiotensin converting enzyme inhibitors; AEs, adverse events; AHD, anti-hypertensive drugs; Ang II, angiotensin II; ANOVA, analysis of variance; ARB, angiotensin receptor blockers; BBB, blood-brain barrier; BMI, body mass index; BP, blood pressure; CCB, calcium channel blockers; CMB, cerebral microbleeds; COX, cyclooxygenase; CRF, case report form; CRA, clinical research associate; CRC, clinical research coordinator; CT, computed tomography; dVRS, dilated virchow-robin spaces; DWI, diffusion weighted imaging; ECG, electrocardiogram; FAS, full analysis set; FLAIR, fluid-attenuated inversion recovery; FPG, fasting plasma glucose; GCP, good clinical practice; GMP, good manufacturing practice; HT-CSVD, hypertensive cerebral small vessel disease; HAMD, Hamilton depression; HbA1c, glycosylated hemoglobin A1c; HT, hypertension; HPLC, high-performance liquid chromatography; ICF, informed consent form; ICH, intracerebral hemorrhage; LI, lacunar infarction; IP, investigational products; LOCF, last-observed-carried-forward method; ITT, intention to treat; MMSE, mini-mental state examination; MRI, magnetic resonance imaging; NOX, NADPH oxidase; NTF, Naotaifang; PPS, per-protocol set; QDBS, Qi deficiency and blood stasis; RAS, renin-angiotensin system; RCT, randomized controlled trial; ROS, reactive oxygen species; RSSI, recent small subcortical infarct; SD, standard deviation; SPIRIT-TCM, Recommendations for Interventional Trials-Traditional Chinese Medicine; SS, safety analysis set; STRIVE, Standards for Reporting Vascular changes on neuroimaging; SWI, susceptibility weighted imaging; TCM, traditional Chinese medicine; TLC, thin layer chromatography; WMH, white matter hyperintensity; WML, white matter lesion.





Kidney tonifying traditional Chinese medicine: Potential implications for the prevention and treatment of osteoporosis

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Longhuo Wu,
Gannan Medical University, China

REVIEWED BY
Xu Wei,
China Academy of Chinese Medical
Sciences, China
Denghui Xie,
Southern Medical university, China

*CORRESPONDENCE
Shun-Xiang Li,
lishunxiang@hotmail.com

[†]These authors have contributed equally to
this work

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Kidney tonifying traditional Chinese medicine: Potential implications for the prevention and treatment of osteoporosis

Yan Duan^{1,2†}, Yu-Ting Su^{1,2†}, Jie Ren², Qun Zhou^{1,2}, Min Tang^{1,2},
Juan Li^{1,2} and Shun-Xiang Li^{1,2*}

¹Hunan Engineering Technology Research Center for Bioactive Substance Discovery of Chinese Medicine, School of Pharmacy, Hunan University of Chinese Medicine, Changsha, China, ²Hunan Province Sino-US International Joint Research Center for Therapeutic Drugs of Senile Degenerative Diseases, Changsha, China

The aging global population is increasingly affected by osteoporosis (OP), which is one of the most significant threats to the elderly. Moreover, its prevention and treatment situations have become increasingly severe. Therefore, it is imperative to develop alternatives or complementary drugs for preventing and treating osteoporosis. Kidney tonifying traditional Chinese medicine (KTTTCM) has been used for the treatment of osteoporosis for a long time. Pharmacological studies have shown that kidney tonifying traditional Chinese medicine can promote osteoblasts, inhibit osteoclasts, and regulate the level of estrogen and plays vital roles in stimulating osteogenesis, restraining adipogenesis of marrow mesenchymal stem cells (MSCs), regulating the metabolism of calcium and phosphorus, and inhibiting oxidative stress. These effects are mediated by OPG/RANKL/RANK, BMP/Smads, MAPKs, and Wnt/ β -catenin systems. To develop a safe, synergistic, effective, and homogenized TCM formula with robust scientific evidence to provide faster and more economical alternatives, the anti-osteoporosis ingredients and pharmacological mechanisms of kidney tonifying traditional Chinese medicine are recapitulated from the perspective of molecular and cell biology, and the safety and toxicity of kidney tonifying traditional Chinese medicine have also been reviewed in this paper.

KEYWORDS

osteoporosis, kidney tonifying traditional Chinese medicine, pharmacological mechanism, active ingredients, safety and toxicity

Introduction

Osteoporosis, a chronic metabolic bone disease, affects the distribution of bone microstructure and leads to a decrease in bone mass, leading to decreased bone strength and higher fracture risk. The occurrence and progression of OP are complex and influenced by multiple factors, such as genetics, environmental factors, and immune abnormalities (Barnsley et al., 2021). OP has gradually become one of the high-risk diseases, which not only severely impacts the quality of life of the elderly but also generates excessive financial and psychological burdens for the family and society. With the rapid growth of aging populations on a global scale, osteoporotic fractures have become a crucial public health concern worldwide (Clynes et al., 2020).

In therapeutic practice, several types of drugs are used for treating OP, such as bisphosphonates, estrogen, parathyroid hormones, and calcitonin. Nevertheless, they may cause many serious side effects, including gastrointestinal adverse effects, joint pain, and leg





2023

June
01

Health and Sustainable Development: Comparison of European and Chinese Systems Conference



Date: 1 June 2023

Organizer contact: Carla Melo
eventosanrs@gmail.com

HEALTH AND SUSTAINABLE DEVELOPMENT

COMPARISON OF EUROPEAN
AND CHINESE SYSTEMS

BELT AND ROAD CONFERENCES

1ST JUNE 2023

AT
UNIVERSITY OF AVEIRO



PLACE – AVEIRO UNIVERSITY AND ONLINE

8H30 – REGISTRATION OF PARTICIPANTS

9H00 – OPENING SESSION – WELCOME REMARKS

PROF. PAULO JORGE FERREIRA – Dean of University of Aveiro *(to be confirmed)*
 PROF. RUI COSTA – Director of the Aveiro School of Health (ESSUA) *(to be confirmed)*
 PROF. CARLOS MORAIS – Director of the Confucius Institute at University of Aveiro
 PROF. FERNANDA ILHÉU – President new Silk Road Friends Association (NSRF)
 PROF. JOSÉ FARO – Director of the Traditional Chinese Medicine School (ESMTC)
 AMBASSADOR ZHAO BENTANG – Ambassador of the People's Republic of China in Portugal *(to be confirmed)*

9H00-9H30 – KEYNOTE SPEAKER

DR. FERNANDO ARAÚJO – Executive Director of Portuguese National Health Service *(to be confirmed)*

1ST PANEL

9H30-10H30 – CHALLENGE ON EU-CHINA COOPERATION ON HEALTH EDUCATION AND SCIENTIFIC RESEARCH

Addresses:

DR. ANABELA SANTIAGO – PhD candidate (Public Policies, Social Sciences) at University of Aveiro *(to be confirmed)*
 PROF. HUANG ZAIWEI – Dean at International Education College, Zhejiang Chinese Medical University *(to be confirmed)*
 PROF. OLGA SILVA – Professor at Pharmacy University/ Lisbon University *(to be confirmed)*
 PROF. VIRGÍNIA TRIGO – Professor, Leader of Doctoral Programs in China, Academic Manager *(to be confirmed)*

2ND PANEL

10H30-11H00 – ONE HEALTH SYSTEM – CONVENTIONAL AND ALTERNATIVE MEDICINES

Addresses:

REPRESENTATIVE OF THE WORLD HEALTH ORGANIZATION – *(to be confirmed)*
 PROF. JOSÉ FARO AND PROF. ANA VARELA – Professors of the Traditional Chinese Medicine School (ESMTC) -

11H00-11H15 – COFFEE BREAK

3RD PANEL

11H15-12H15 – CHINA AND PORTUGAL'S HEALTH SYSTEM COVERAGE

Addresses:

PROF. HERMANN AUBIÉ – Senior Researcher at The University of Turku *(to be confirmed)*
 DR. GONÇALO SANTINHA – Assistant Professor at University of Aveiro *(to be confirmed)*
 PROF. SIMON LEE – Professor at University of Macau *(to be confirmed)*
 DR. HUAYIN LIU – Chief Investment Officer at Una's Insurance *(to be confirmed)*

12:15-12:30 – Q&A

12:30-13:00 – Closing Session

Address:

PROF. CRISTINA VAZ DE ALMEIDA – President of the Portuguese Health Literacy Association *(to be confirmed)*





2023

Sept.
18-20

The 11th GP-TCM RA Annual Meeting



Date: 18-20/09/2023

Location: Leiden, The Netherlands

The 11th GP-TCM RA Annual Meeting

Date: 18-20/09/2023

Location: Leiden, The Netherlands



The 11th GP-TCM RA Annual Meeting will be held in Leiden, the Netherlands on 18-20 September 2023. More details will be announced later.

Women Scientists in Ethnopharmacological Research

Statistics show that women remain under-represented in areas of Science and this is also reflected by their under-representation on the editorial boards of scientific journals. In view of the commitment of Elsevier to address this disparity, and in line with our inclusive approach to embrace and promote diversity, the *Journal of Ethnopharmacology* (JEP) will be devoting a special issue to showcase and celebrate distinguished women researchers in the field of Ethnopharmacology. The special issue will be a collection of experimental and review papers submitted by female corresponding authors. We encourage submissions that are related to women's health, but this is not mandatory.



The Guest Editors for this special issue are our own women Associate and Managing Editors:

Associate Editors

- **Prof. Clara Bik-San Lau**
The Chinese University of Hong Kong, China
- **Prof. Esra Küpeli Akkol**
Gazi University, Turkey
- **Prof. Patricia Dias Fernandes**
Federal University of Rio de Janeiro, Brazil
- **Prof. Khozirah Shaari**
University of Putra Malaysia, Malaysia
- **Prof. Ling-Dong Kong**
State Key Laboratory of Pharmaceutical Biotechnology, Nanjing, China

Managing Editors

- **Dr. Sandra Combrinck**
Tshwane University of Technology, South Africa
- **Prof. Esra Küpeli Akkol**
- **Dr. Gerda Fouche**
University of Pretoria, South Africa
- **Dr. Maxleene Sandasi**
Tshwane University of Technology, South Africa
- **Dr. Ilze Vermaak**
Tshwane University of Technology, South Africa

Submission Information

Please submit your manuscript by July 31st, 2023.

Submission platform: Editorial Manager <https://www.editorialmanager.com/jethno/default2.aspx>

Please refer to the Guide for Authors to prepare your manuscript and select the correct article type when submitting your manuscript online. Both the Guide for Authors and the submission portal could be found on the Journal Homepage here:

Journal of Ethnopharmacology ScienceDirect.com by Elsevier

https://www.sciencedirect.com/journal/journal-of-ethnopharmacology?start_rank=701&cat0=agricultural-and-biological-sciences

You will be requested to upload a small photograph and short biography (max 200 words) for each author.



ii

Journal: *Foods*

Topic	Special Issue "Functional Food and Safety Evaluation"
Deadline	15 June 2023
Details	https://www.mdpi.com/journal/foods/special_issues/O6W8R54B3T
 Editor(s)	<p>Dr. Shun-Wan Chan Faculty of Science and Technology, Technological and Higher Education Institute of Hong Kong</p> <p>Dr. Huan Zhang Department of Applied Biology and Chemical Technology, The Hong Kong Polytechnic University, Hong Kong, China</p>

iii

Journal: *Processes*

Topic	Special Issue "Natural Products for Drug Discovery and Development"
Deadline	30 April 2023
Details	https://www.mdpi.com/journal/processes/special_issues/Natural_Drug
 Editor(s)	<p>Antony Kam, Nanyang Technological University, Singapore</p> <p>Shining Loo, Nanyang Technological University, Singapore</p> <p>Simon Ming-Yuen Lee, University of Macau, Macao, China</p> 



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Queries	Any enquiries about the journal can be sent to editorialoffice@amm-journal.org

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Acta Materia Medica is now open for submissions via ScholarOne (<https://mc04.manuscriptcentral.com/ammed>).


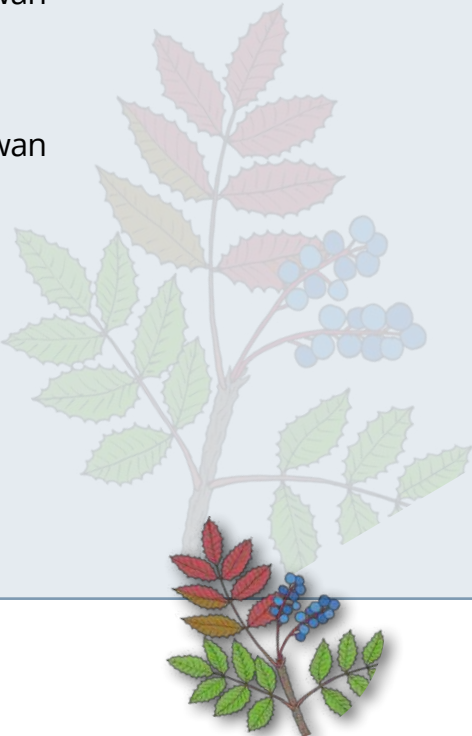
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Editorial Board: <https://amm-journal.org/index.php/editorial-board/>

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Topic	Herbal Medicines in Pain Management, Volume II
Deadline	13 September 2023
Details	https://www.frontiersin.org/research-topics/54914/herbal-medicines-in-pain-management-volume-ii
 Editor(s)	<p>Wen-Long Hu, Kaoshiung Chang Gung Memorial Hospital, Taiwan</p> <p>Ming-Yen Tsai, Kaoshiung Chang Gung Memorial Hospital, Taiwan</p> <p>Yu Chiang Hung, Kaoshiung Chang Gung Memorial Hospital, Taiwan</p> <p>Hung-Rong Yen, China Medical University, Taiwan</p> <p>Domenica V Delfino, University of Perugia, Italy</p> 



Topic	Clinical Evidence & Advances in Translational Research in Classic Formula of TCM
Deadline	24 September 2023
Details	https://www.frontiersin.org/research-topics/50924/clinical-evidence-advances-in-translational-research-in-classic-formula-of-tcm
 Editor(s)	<p>Xingjiang Xiong, Guang'anmen Hospital, China Academy of Chinese Medical Sciences, China</p> <p>Willian C Cho, QEH, Hong Kong, China</p> <p>Dewei Ye, Guangdong Pharmaceutical University, China</p> <p>Yu-Qing Zhang, McMaster University, Canada</p> <p>Pengqian Wang, Institute of Chinese Materia Medica, China Academy of Chinese Medical Sciences, China</p>





Topic	Mechanism of Traditional Medicine on Intestinal Mucosal barrier in Ulcerative colitis
Deadline	18 May 2023
Details	https://www.frontiersin.org/research-topics/45023/mechanism-of-traditional-medicine-on-intestinal-mucosal-barrier-in-ulcerative-colitis
Editor(s)	<p>Lixin Zhu, The Sixth Affiliated Hospital of Sun Yat- sen University, China</p> <p>Xiu Hong Kang, Traditional Chinese Medicine Department, Beijing aerospace general hospital, China</p> <p>Guang Chen, Dongzhimen Hospital, Beijing University of Chinese Medicine, China</p> <p>Lin Li, Beijing University of Chinese Medicine, China</p> <p>Yu Ling Chu, Alhambra Medical University, USA</p> <p>Lei Zhu, Affiliated Hospital of Nanjing Universtiy of Chinese Medcine, China</p> <p>Yuezhou Chen, Harvard Medical School, USA</p> <p>Domenica V Delfino, University of Perugia, Italy</p>





Topic	Real-World Evidence of Natural Products, Herbal Medicines, and Traditional Chinese Medicine Treatments
Deadline	15 May 2023
Details	https://www.frontiersin.org/research-topics/48222/real-world-evidence-of-natural-products-herbal-medicines-and-traditional-chinese-medicine-treatments
Editor(s)	<p>Liyun He, Institute of Basic Research in Clinical Medicine, China Academy of Chinese Medical Sciences, China</p> <p>Yiming Li, SWISS TCM University, Switzerland</p> <p>Yi Guo, Tianjin University of Traditional Chinese Medicine, China</p> <p>Xuezhong Zhou, School of Computer and Information Technology, Beijing Jiaotong University, China</p> <p>Yi Wang, China Academy of Chinese Medical Science, China</p>






澳門大學
UNIVERSIDADE DE MACAU
UNIVERSITY OF MACAU


Full/Associate/Assistant Professor in Chinese Medicine,
Institute of Chinese Medical Sciences. University of Macau, China

i

 Details: https://career.admo.um.edu.mo/icms_cm_faa_07_2022/


Full/Associate/Assistant Professor in Chinese Medicine
Institute of Chinese Medical Sciences. University of Macau, China

ii

 Details: https://career.admo.um.edu.mo/icms_cm_faa_03_2022/

Full/Associate/Assistant Professor in Pharmaceutical Regulatory Sciences
Institute of Chinese Medical Sciences. University of Macau, China

iii


 Details: https://career.admo.um.edu.mo/icms_prs_faa_03_2022/



香港中文大學
The Chinese University of Hong Kong


Research Assistant(s), Institute of Chinese Medicine,
The Chinese University of Hong Kong

iv

 Details: https://cuhk.taleo.net/careersection/cu_career_non_teach/jobdetail.ftl?job=210002PD&tz=GMT%2B08%3A00&tzname=Asia%2FMacau

Postdoctoral Fellow(s), Institute of Chinese Medicine,
The Chinese University of Hong Kong


v

 Details: https://cuhk.taleo.net/careersection/cu_career_non_teach/jobdetail.ftl?job=210002PE&tz=GMT%2B08%3A00&tzname=Asia%2FMacau




Research Assistant Professor, School of Chinese Medicine,
Hong Kong Baptist University

vi

 Details: https://hro.hkbu.edu.hk/index.php?page_id=6&job_id=6572&f=job_details


Post-Doctoral Research Fellow,
Centre for Chinese Herbal Medicine Drug Development,
School of Chinese Medicine, Hong Kong Baptist University

vii

 Details: https://hro.hkbu.edu.hk/index.php?page_id=6&job_id=6742&f=job_details


Research Assistant Professor (Chinese Herbal Medicine and Gut Microbiology),
Centre for Chinese Herbal Medicine Drug Development,
School of Chinese Medicine, Hong Kong Baptist University

viii

 Details: https://hro.hkbu.edu.hk/index.php?page_id=6&job_id=6740&f=job_details


Research Assistant Professor (Gut Immunology),
Centre for Chinese Herbal Medicine Drug Development,
School of Chinese Medicine, Hong Kong Baptist University

ix

 Details: https://hro.hkbu.edu.hk/index.php?page_id=6&job_id=6739&f=job_details


Research Assistants (Basic Science),
Centre for Chinese Herbal Medicine Drug Development,
School of Chinese Medicine, Hong Kong Baptist University

x

 Details: https://hro.hkbu.edu.hk/index.php?page_id=6&job_id=6741&f=job_details


Research Coordinator,
Centre for Chinese Herbal Medicine Drug Development,
School of Chinese Medicine, Hong Kong Baptist University

xi

 Details: https://hro.hkbu.edu.hk/index.php?page_id=6&job_id=6736&f=job_details

Senior Research Assistant (Clinical),
Centre for Chinese Herbal Medicine Drug Development,
School of Chinese Medicine, Hong Kong Baptist University

xii

 Details: https://hro.hkbu.edu.hk/index.php?page_id=6&job_id=6738&f=job_details



Student's Corner

Postgraduate Opportunities

Opportunities in Europe

Germany



https://academicpositions.com/ad/cologne-graduate-school-ageing-research-cga/2022/12-fully-funded-phd-positions/181690?utm_source=facebook&utm_medium=cpc&utm_campaign=scm-cga-092022+med-hi



<https://www.humboldt-foundation.de/en/apply/sponsorship-programmes/humboldt-research-fellowship>



<https://www.daad.de/en/study-and-research-in-germany/>



Postgraduate Opportunities

Opportunities around the world

Gratz - Austria



<https://agristok.net/2022/09/03/phd-fully-funded-position-in-plant-molecular-biology-at-university-of-graz-in-austria/>

International



https://jobs.msd.com/gb/en/job/R197090/Scientist-Medicinal-Chemistry/?utm_source=linkedin&utm_campaign=job-share&utm_medium=social-share

Denmark



<https://www.dtu.dk/om-dtu/job-og-karriere/ledige-stillinger/job?id=d2e2591d-1d14-43ff-8557-6e6ce0fc3a58>



Postgraduate Opportunities

Opportunities around the world

Australia



University of Melbourne

<https://lnkd.in/dxjXv-JJ8>



Ireland



Irish Research Council

<https://research.ie/funding/>

Singapore



<https://lnkd.in/dra7MV8>



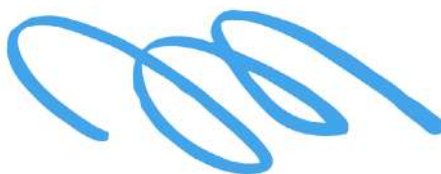
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UK: register for job alerts

<https://charnwoodmolecular.livevacancies.co.uk/#/>





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Intellectual property



https://micheonip.com/intellectual-property-non-disclosure-agreement/?utm_campaign=Michelson&20Institute%20for%20intellectual%20Property&utm_content=212335938&utm_medium=social&utm_source=linkedin&hss_channel=lcp-42772499

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Well worth exploring

- <https://www.edx.org/>
- <https://englishforuniversity.com/resources/>
- <https://owl.purdue.edu/>



Webinar- How To Avoid Plagiarism?

Webinar to give information re plagiarism

- <https://www.youtube.com/watch?v=sHhGY4c61v4>
- <https://www.youtube.com/watch?v=33R43YF9DzI>



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Information and resources from the National Center for Complementary and Integrative Health, U.S. National Institutes of Health (NIH).

- www.nccih.gov

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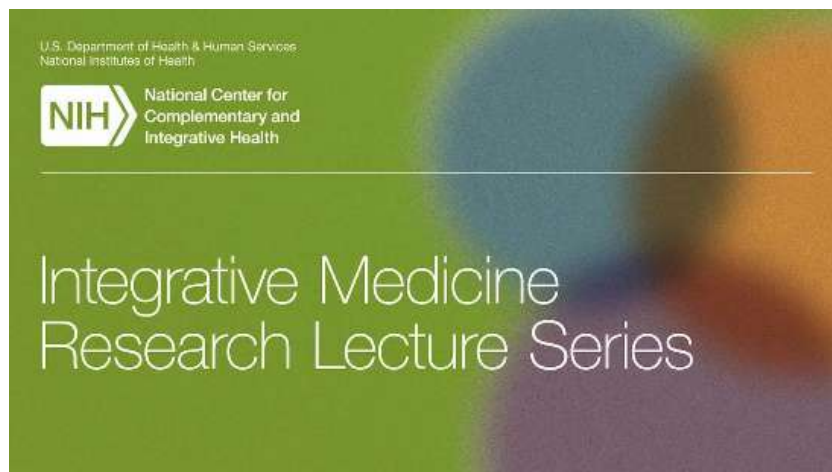
- <https://www.herbalgram.org/news/webinar-page/>



KEEP AN EYE ON

<https://www.pharmacognosy.us/>

<https://www.herbalgram.org>



<https://www.nccih.nih.gov/news/events/imlectures?nav=li>

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Botanical Supply Sustainability in the Time of COVID

- <https://vimeo.com/457513678>

Plants, People & Culture: The Science of Ethnobotany

- <https://vimeo.com/460565477>



The Business Case for Sustainability

- <https://vimeo.com/465447452>

Cross-cultural Understanding of Local Herbal Knowledge and Chinese traditional Daodi Materia Medica

- <https://vimeo.com/668389245>

Sourcing Botanicals and Quality Control: A Conversation with Michael Heinrich and Anthony Booker

- <https://vimeo.com/642467580>

Introducing the WildCheck Report: Assessing Risk & Opportunities of Trade in Wild Plant Ingredients

- <https://vimeo.com/704246800>

Certifications as a Path to Sustainability? A Conversation about the Opportunities and Limits of Certification

- <https://vimeo.com/540314958>



AND MANY MORE

<https://vimeo.com/457513678>



Buchi Mini series of webinars – covering Drug Discovery Using Natural Resources



 The speaker: Prof. Dr. Elfahmi

There is a separate registration requirement for each webinar.

https://cloud.infohub.buchi.com/drug-discovery/with-prof-elfahmi?utm_source=email&utm_medium=email&utm_campaign=gl-2022-webinars-mini-webinars-with-prof-elfahmi&utm_content=34316261&utm_term=gl-2022-webinars-mini-webinars-with-prof-elfahmi&utm_term=gl-2022-webinars-mini-webinars-with-prof-elfahmi&utm_term=gl-2022-webinars-mini-webinars-with-prof-elfahmi



Episode 1: Drug Discovery and Development Workflow

Discover four essential steps in drug discovery and development: literature review & preliminary screening, biology development, physicochemical & pharmaceutical development. Gain a process overview for the isolation of active compounds from plants using bioactivity-guided fractionation.



Episode 2: Concentration of Natural Products

Explore the workflow for processing of natural compounds: sampling & crushing, extraction & concentration; fractionation & purification; structure identification and product packaging. Learn about extract/fraction concentration through solvent removal by rotary evaporation. Find challenges and solutions to efficiency, foaming, bumping, plus optimization tips for temperature difference, pressure values, flask size, rotation speed and condenser loading.



Episode 3: Purification Techniques for Natural Products

Learn fundamentals and protocols for relevant methods, including liquid-liquid fractionation (phase separation), winterization, microporous resin chromatography, flash and vacuum liquid chromatography, radial chromatography, crystallization, preparative column chromatography. See it in action with a case study on the purification of asiaticoside & madecassoside from *Centella asiatica*.



Episode 4: Past, Present and Future of Herbal Medicines

Gain a comprehensive overview of the history of plant use in drugs and pharmacy, including milestones in the development of herbal medicines. See current global use, benefits and challenges facing alternative or traditional medicine. Look into the future of herbal medicine development with predictions on how this branch will develop.





International Conferences

Conference information

Lots of interesting and relevant conferences to be found at these links.

Traditional medicine Conferences in 2023

- <https://waset.org/traditional-medicine-conferences-in-2023>



Phytochemistry Conferences

- <https://waset.org/phytochemistry-conferences>

2nd Global Summit on Traditional and Alternative Medicine (GSTAM2023) will be held in Osaka, Japan during April 24-26, 2023

- <https://www.thescientistt.com/2023/traditional-medicine-summit>

International Conferences

GA Conference Trinity College Dublin Ireland

NatPro, the trinity Centre for natural product Research, is privileged to host the 71st International Congress and Annual Meeting of the Society for Medicinal Plant and Natural Product Research (GA) at Trinity College Dublin, taking place from 2nd to 5th July 2023.

<https://www.tcd.ie/natpro/events>

This will be the first time the GA Congress will be held in Ireland and will involve four days of international science and networking opportunities through a program of plenary lectures, keynote presentations, short lectures, workshops and exhibitions. Further, it will be an opportunity to visit the Emerald Isle!



71st International Congress and Annual Meeting of the Society for Medicinal Plant and Natural Product Research (GA)

2-5 July 2023 Trinity College Dublin Ireland

Join us at Trinity College Dublin

located in a beautiful campus in the heart of Dublin's city centre, a location with history that spans over 400 years and Ireland's highest ranked university.

Visit the Emerald Isle
Embrace the Irish spirit that blends traditions with innovation.
Ireland Awaits You!


For more information, visit:
GA2023 Congress website: www.gadublin2023.com
GA homepage: www.ga-online.org
Contact email: ga2023@abbey.ie



Trinity College Dublin
Coláiste na Tríonóide, Baile Átha Cliath
The University of Dublin

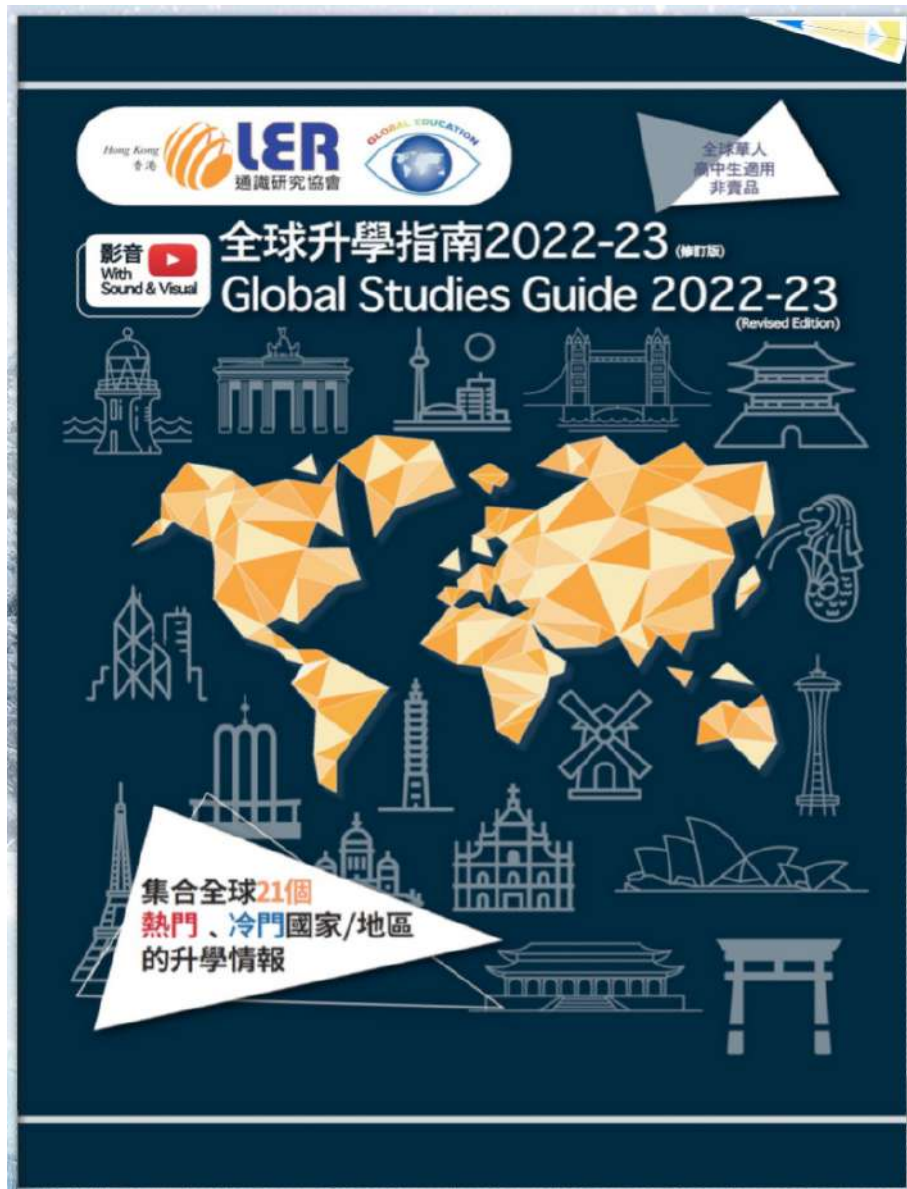
i

China Scholarship Council (CSC) – Trinity College Dublin Joint Scholarship Programme

 Details: <https://www.tcd.ie/study/international/scholarships/Postgraduate/csc.php>



i Global Studies Guide 2022-23



Details: <https://online.fliphtml5.com/pwsrn/pjso/>



香港中文大學中醫學院

School of Chinese Medicine
The Chinese University of Hong Kong

ii



PhD in Chinese Medicine
School of Chinese Medicine,
The Chinese University of Hong Kong



Details: <http://www.scm.cuhk.edu.hk/en-gb/programs/research-master-doctoral-program/phd-in-chinese-medicine>



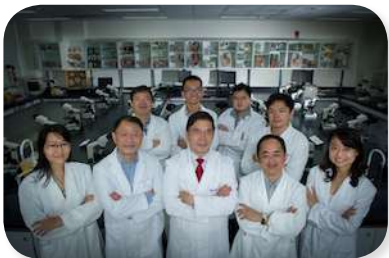
香港浸會大學

HONG KONG BAPTIST UNIVERSITY

中醫藥學院

School of
Chinese Medicine

iii



Doctor of Philosophy (PhD) in Biomedical Sciences/
Chinese Medicine/
Translational Medicine/
Pharmacy in Chinese Medicine
School of Chinese Medicine, Hong Kong Baptist University



Details: https://scm.hkbu.edu.hk/en/education/research_postgraduate_programmes/index.html#list/0



LKS Faculty of Medicine

The University of Hong Kong
香港大學李嘉誠醫學院



中醫藥學院

iv



PhD in Chinese Medicine
School of Chinese Medicine, The University of Hong Kong



Details: <https://scm.hku.hk/Views/Programme/English-MPhilPhD.html>



澳門大學

UNIVERSIDADE DE MACAU
UNIVERSITY OF MACAU



中藥質量研究國家重點實驗室 (澳門大學)

Laboratório de Referência do Estado para Investigação de
Qualidade em Medicina Chinesa (Universidade de Macau)
State Key Laboratory of Quality Research in Chinese Medicine
(University of Macau)

中華醫藥研究院

Instituto de Ciências Médicas Chinesas
Institute of Chinese Medical Sciences

v



Doctoral Degree in Biomedical Science
Institute of Chinese Medical Sciences, University of Macau



Details: <https://sklqrcm.um.edu.mo/doctoral-degree-in-biomedical-science/>

Med Plant Hunt with iNaturalist

i



In order to promote conservation of wildlife, especially wild medicinal plant and TCM herbs, and their environment, a challenge on **“Med Plant Hunt”** is launched.

The aim of challenge is to encourage our members to identify and recognize the morphological features of living wild medicinal plant in nature.

Eligibility:

Med Plant Hunt is free and open to all GP-TCM RA members.

Entries must abide by the guidelines below.

Rules & Guidelines:

iNaturalist is a nature app to help you identify the animals and plants around you and provide a platform to connect you and experts to share about nature. Users can record and share their observations and the findings can enrich scientific data repositories like the Global Biodiversity Information Facility.

Create your own account and share your wild medicinal plant observation to mobile iNaturalist app or iNaturalist website.

How to enter:

1. Complete the registration form with iNaturalist user ID.
2. Make the observation of living wild medicinal plant around you with iNaturalist app/website.
3. With the submitted iNaturalist ID, your observation for entry will be automatically recorded and results will be announced in the coming issue of the newsletter.



How to join



Registration form



How to upload

For inquiries about Med Plant Hunt, please send email to

gptcm_medplanthunt@outlook.com





Med Plant Hunt with iNaturalist

i



Prizes:

- **Adventurous Observer: The highest number of observed species**
- **TCM Photographer: Best photo shoot**
- **Lucky Observer: Observe rare species**



The selected entries will be published on the next issue of the newsletter. An electronic certificate and a **complementary gift** (e.g. water bottle ideal for outdoor activities, sponsored by Macau Pharmacology Association) will be given.



澳門藥理協會

MED PLANT HUNT

With iNaturalist

Med Plant Hunt Registration Form

Name:

Email:

Affiliation:

Country or region:

iNaturalist account information

User name:

User email:

(Please send the form to gptcm_medplanthunt@outlook.com for registration)



Online registration



How to join



Registration form



How to upload



Pomelo (*Citrus grandis*, Rutaceae, 柚, left) and
Huazhou pomelo (*Citrus grandis* 'Tomentosa', Rutaceae, 化州柚, right)



Citrus trees have been cultivated in China mainly for their hesperidia (sectioned fruits) since ancient times. Among them, tangerines (*Citrus reticulata* and its cultivars) and pomelos (*Citrus grandis* and its cultivars) are common economic crops that are consumed as fruits and Chinese medicinals.

The edible citrus pulps are juice vesicles (juice sacs) inside the fruit's endocarp. In Chinese *materia medica*, fresh tangerine pulp moistens the lung, promotes the production of body fluid, regulates *qi*, and harmonizes the stomach. Tangerine peel (dried mature pericarp) regulates *qi*, fortifies the spleen, dries dampness, and transforms phlegm. In particular, known as the Chinese medicinal *juhong* (citri exocarpium rubrum), the red outer part (exocarp) of the tangerine peel is produced in Sichuan, Fujian, Jiangxi, and Zhejiang. Citri exocarpium rubrum has long enjoyed a good reputation in treating phlegm-damp coughs. However, its commercial supply failed to meet the demands in the herbal markets. That was when pomelos came to the stage. Fresh pomelo pulp reduces food stagnation, transforms phlegm, and relieves hangovers. Known as the Chinese medicinal *huajuhong* (citri grandis exocarpium), the dried exocarp of the immature or nearly ripe pomelo and Huazhou pomelo is mainly produced in Guangdong and Guangxi. Since 1960s, citri exocarpium rubrum has been completely replaced by citri grandis exocarpium in the herbal markets nationwide. As a matter of fact, citri grandis exocarpium produced in Huazhou (hence the name *huajuhong*) is one of the *daodi* medicinal materials of Guangdong. The botanical origin, *Citrus grandis* 'Tomentosa', is very characteristic that its fruit is densely covered by a short mat of hairs.

柚

树高名柚产东边
厚叶临风心志坚
巨果食香常醉后
又闻月下共团圆

化州柚

岭南长住越人头
厚叶闻香来化州
莫道味酸难再食
常言天价是何由

The above colour photographs, English texts and Chinese poems are contributed by Prof **Hubiao Chen** (Hong Kong), Dr **Ping Guo** (Hong Kong) and Prof **Jiqing Liu** (Shenzhen), respectively. This column is advised by Prof **Zhongzhen Zhao** (Hong Kong).

Just click here to enjoy the video: https://uofmacau-my.sharepoint.com/:v/g/personal/jesskuok_umac_mo/EU06EB2ltiBArK86Xxhbl7oBXWVedUJr2or3ZlxE0TT-ug?e=1tf4hv



Pomelo (*Citrus grandis*, Rutaceae, 柚, left) and
Huazhou pomelo (*Citrus grandis* 'Tomentosa', Rutaceae, 化州柚, right)



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