11th Meeting of Consortium for Globalization of Chinese Medicine (CGCM)

Macau, August 20 - 23, 2012

ABSTRACT SUBMISSION FORM

Guidelines for Submission of Abstracts

1. You are invited to submit abstracts to the 11th CGCM Meeting.
2. To support postgraduates to attend the 11th CGCM Meeting, Travel Grants are now open for application.
3. Abstract submission deadline: **July 6, 2012 (Friday)**
4. Abstract can be submitted to centraloffice@tcmedicine.org with the abstract submission form.
5. All abstracts must be submitted in ENGLISH (including the title, abstract text, authors' names, affiliations, figures and graphs).
6. The selected abstracts will be invited for poster presentation and published in the meeting abstract book.
7. Word limit: 300 words including acknowledgement with no more than 2 tables / graphs / figures.
8. Submission of abstracts does NOT constitute registration for the Meeting. All presenters are required to make registration for the Meeting separately.

Travel Grant

Travel grants will be given to selected postgraduates to attend the 11th CGCM Meeting. Awardees will receive up to USD 500, free accommodation (shared room) and waiver of registration fee.

☐ **Apply for the Travel Grant**

*** Please provide proof of student status and endorsement from supervisors.**

**** Payment method: Pay in cash (USD) onsite upon presentation of an identity card or passport and original receipt of air ticket.***

Abstracts will be divided into the designated categories for program purpose. Please choose *one* category only.

☐ 1. Acupuncture

☐ 2. Bioinformatics and Database (Application of "Omics" in TCM Research)

3. Biological Activities and Mechanism Study (please select **one** of the following)
   - ☐ Cancer
   - ■ Immunomodulation
   - ☐ Metabolism and Drug Interaction
   - ☐ Metabolic, Neural Diseases and Aging Process

4. Clinical Trial (please select **one** of the following)
   - ☐ Cancer, Liver Disease and Inflammation
   - ☐ Other Diseases and Safety

☐ 5. Education

6. Herbal Resources (please select **one** of the following)
   - ☐ Cultivation and Herbal Quality
   - ☐ Identification and Manufacturing

☐ 7. Interregional Collaborations in Industry and Academia

8. Natural Products (please select **one** of the following)

☐ Biological Activities

☐ Identification and Bio-transformation

☐ 9. Objective and Standard Assessments of Diagnosis in TCM

☐ 10. Regulatory Affairs

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Abstract (300 words including acknowledgement with **no more than 2 tables / graphs / figures*)***

Title:

Application of *Scutellariae radix*, *Gardeniae fructus*, and probiotics in preventing *Salmonella enterica* serovar Choleraesuis infection in swine

Authors:

Chiung-Hung Chang, Ming-Tang Chiou, Chiu-Hsian Su, Daniel S. Chen, Yueh-Sheng Chen, Chin-En Tsai, Bi Yu, and Yuan-Man Hsu*

Content:

Salmonella enterica serovar Choleraesuis usually causes septicemia and is a host-adapted pathogen of swine. It also causes systemic infection in humans and is one of the important serotypes for salmonellosis transmitted from animals to humans. Lactic acid bacteria (LAB) strains have been widely studied in recent years for their probiotic properties. In this study, we aimed to develop a combination of LAB strains and herbal plants as feed additives for preventing *S.* Choleraesuis infection in swine. A mice infection model was first used to screen for potential agents against infection. *Scutellariae radix* (SR) and *Gardeniae fructus* (GF) could eliminate *S.* Choleraesuis in organs of infected mice. And GF also could significantly decrease *S.* Choleraesuis – induced IFN-γ expression in serum. Then, a pig infection model was applied to evaluate the effects of LAB strains and herbal plants against *S.* Choleraesuis infection. SR and GF showed their abilities on reducing bacteria shedding and suppressing serum levels of TNF-α induced by infection. The bioactivities of SR and GF were enhanced by combined with LAB strains. Furthermore, LAB strains alone could speed up the bacteria elimination time in feces and also boost immunity of infected pigs. Further studies were conducted to identify the active compounds of SR and GF. Baicalein and genipin exhibited stronger cytotoxicity than baicalin and geniposide did, and also significantly prevented *Salmonella* invading macrophages. These data indicated that these aglycones are more active than their parent compounds. Our study suggested that LAB strains have showed dual functions for preventing infection, enhancing immunity to prepare host defense for further infection and adjusting the enzymatic activity of intestinal microbes in order to converter herbal compounds to active compounds. And SR/GF and LAB strains mixture could be potential infection prevention agents supplied as feed additives.

For inquiries, please contact Miss Joanna Law at CGCM Central Office,
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