

## RESEARCH ON BIOACTIVE COMPOUNDS FROM TCM PLANTS APPLIED AGAINST CHRONIC DISEASES

**BRANTNER** Adelheid, University of Graz

**BIAN** Baolin, China Academy of Chinese Medical Sciences

In August 2018 Professor Dr Adelheid Brantner travelled to China to visit Prof Dr Daofeng Chen from the Department of Pharmacognosy, School of Pharmacy at the Fudan University in Shanghai and Professor Bian Baolin, Vice director of the Institute of Materia Medica from the China Academy of Chinese Medical Sciences in Beijing to discuss further cooperation projects.

During summer 2018 Mrs. Mattea-Coco Marnul and Mrs. Marion Steger, two master students of pharmacy from the University of Graz, performed phytochemical experiments on the traditional Chinese formulation Fang Feng Tong Sheng Sun in the laboratories of Prof Bian Baolin at the Institute of Materia Medica at the China Academy of Chinese Medical Sciences in Beijing.. This ancient formula consists of 14 component herbs and three salts. Therefore the mixture requires challenging analytical methods. In the China Academy of Chinese Medical Sciences in Beijing the Austrian students had the possibility to use new sophisticated equipment like UHPLC-ESI-Orbitrap MS coupled with UHPLC-ESI-QqQ MS for the analytical analysis. During her stay in Beijing, Prof Brantner was working with her students to establish a method for metabolic profiling of this complex mixture, its main active ingredients and its component herbs.

Prof Brantner was also discussing with Prof Bian Baolin and his co-workers the results of pharmacological in vitro experiments on Fang Feng Tong Sheng Sun with human dermal fibroblasts and RAW264.7 cells. The results are promising concerning the application of Fang Feng Tong Sheng Sun against inflammatory diseases and for supporting the wound-healing process. Therefore a manuscript was prepared to publish these interesting outcomes.

Apart from the intensive and fruitful scientific exchange, this project strengthened the consistent and sustainable research cooperation of Prof Brantner with Prof Bian Baolin and his group from the China Academy of Chinese Medical Sciences. Moreover, numerous new ideas for future joint projects were developed. Therefore, the Institute of Pharmaceutical Sciences from the University of Graz and its cooperation partners look not only back to another very successful project, but also to the next activities of this unique cooperation.



Eurasia-Pacific Uninet, Veterinärplatz 1, 1210 Vienna, Austria

[eurasiapacific@vetmeduni.ac.at](mailto:eurasiapacific@vetmeduni.ac.at)  
+43 1 25077 4209

<https://www.eurasiapacific.info/>