

Chemical Analysis and Pharmacokinetics of Chinese Herbal Medicines



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Abstract

Chinese herbal medicines are gaining increasing attention worldwide due to their significant therapeutic effects. However, the effective components, i.e. chemical constituents responsible for the therapeutic effects, are usually not well defined. This is challenging due to the complicated chemical composition. A comprehensive understanding on the chemical constituents and in vivo metabolism is critical to dissect the effective components of herbal medicines. We have developed a series of analytical methods, including LC/MS, 2DLC and SFC to globally profile the chemical constituents of herbal medicines, and to discover novel compounds with significant bioactivities. We have also proposed a strategy to monitor the multi-component pharmacokinetics of herbal medicines. Combined with biological evaluations, these new techniques have been used to elucidate the effective components of licorice (Gan-Cao).

Biography

Min Ye obtained his Ph.D. in Pharmacognosy from Peking University in 2003. He did his postdoctoral researches at Yale University School of Medicine and Louisiana State University. He joined Peking University School of Pharmaceutical Sciences in 2007, and is now vice chair and Professor at the Department of Natural Medicine. His research is focused on the chemical analysis and pharmacokinetics of Chinese herbal medicines, and biocatalysis of natural products. He has published over 130 peer-review papers.

**** All are welcome ****