

综述

代谢组学的研究现状及其在方剂量效关系中的应用

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摘要 代谢组学能够准确、灵敏地反映生物体系的整体功能状态, 同时克服了传统中医依赖医生个人经验进行诊疗的不确定性。方剂剂量的变化对其疗效乃至功用的改变都将在代谢组图谱的不同变化趋势中得到体现, 从而能够对方剂的量效关系及其物质基础给出全新的解释, 获得深入系统的认识。本文综述了代谢组学在中医药现代研究中的应用进展, 并针对目前方剂量效关系研究中, 方剂的疗效评价只能定性不能定量, 导致量效关系不明的困境, 提出以代谢组学技术作为方剂的整体疗效评价方法, 通过追踪代谢组在病理发展过程中以及药物干预下的变化, 开展方剂量效关系研究的新思路。

关键词 [代谢组学](#); [量效关系](#); [整体疗效评价](#); [代谢网络](#); [中药](#)

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Research advances of metabonomics and application in the study of dose-effect relationship of prescriptions

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Abstract

Metabonomics reflects the systematic status of the organism accurately, sensitively and impersonally. To evaluate the therapeutic effects by means of metabonomics will overcome the deficiency of uncertainty with the traditional diagnostic methods including inspection, auscultation and olfaction, inquiry, and palpation. The impact of the variation of prescriptions dosage on efficiency will be shown clearly through the change tendencies of metabonome spectra. Consequently, a new insight is obtained for the dose-effect relationship and its material basis. The ambiguous dose-effect relationship of traditional Chinese medicine (TCM) prescriptions has long been controversial. It is one of the most important reasons that the therapeutic effect of this kind of medicines cannot be evaluated quantitatively. Based on the review of the application of metabonomics in modern study of TCM, we suggest to carry out the study on dose-effect relationship of prescriptions, in which the techniques of metabonomics are employed to comprehensively evaluate the therapeutic effect of prescriptions, and the variation of metabonomes in the course of disease development and treatment is traced.

Key words [metabonomics](#) [dose-effect relationship](#) [comprehensive evaluation of therapeutic effect](#) [metabolic network](#) [tradition Chinese medicine](#)

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