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中药及复方全成分群快速高通量测定技术的现状及免疫芯片综合法

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求解获得各成分的浓度,两者结合就能建立起中药及复方成分群免疫芯片综合法。

中文关键词:中药 复方 全成分群 高通量 定性定量分析 标记免疫法 中药化学 芯片

Current development of rapid high-throughout determination technology for total components of traditional Chinese medicines and formula and synthetic immunity chip method

Abstract: The qualitative and quantitative analysis on traditional Chinese medicine and formula components can be made by chemical and instrumental analysis methods. Of both, the instrumental analysis methods play a dominant role, including HPLC, HPLC-MS, HPLC-NMR, GC, GC-MS, biochemical and biological effect. But because traditional Chinese medicines and formula have complicated components, chemical methods are so supectife that they shall be used fess or with caution. While instrumental analysis methods are so specific that they are appropriate for analyzing complicated single component. The analysis techniques for multiple components of traditional Chinese medicines and formula focus on ingrapprints, but all of these analysis techniques are limited by the precequists of separation and the lack of general-purpose detectors and therefore being hard to realize the determination of all components for traditional Chinese medicines and formula. In the natural world, however, organisms identify native and alien components through specificity and non-specificity of clusters decided by antigens and antibodies. For example, components of traditional Chinese medicines are directly or indirectly synthesized into antigens and injected into animals, in order to generate specific antibodies and then collect cross reaction information of these components to specific antibodies. As for components without cross reaction, their contents shall be directly read out on the basis of the inhibition rate at the content of the properties reaction for specificity of antigens and antibodies. See sides, a cross inhibition rate and the high them and them a multiple regression linear equation between antibodies and haptens of traditional Chinese medicine and componed components and them to such contents and the observed into obtain concentration of each component. The two results are combined to establish the synthetic immunity chip method for traditional Chinese medicine and componed components. traditional Chinese medicine and formula components

keywords:traditional Chinese medicine formula all components high throughout qualitative and quantitative analysis labeled immunity method chemistry of traditional Chinese medicine

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