

# **Pharmacodynamic Evaluation of Chinese Medicines**

## **Based on Biotechnology**

### **Abstract**

Chinese medicine has a unique theoretical system and the exact effect, but because of the limitations of their own, the basic theory has not been widely recognized by the international scope. The modernization of traditional Chinese medicine (TCM) is an inevitable development trend, pharmacodynamic evaluation of Chinese medicine is one of the key. However, the theory of Chinese medicine and western medicine is essentially different, and the traditional means of Pharmacodynamic evaluation is not to suit Chinese medicine. With the development of the modern life sciences, genetic engineering techniques in biotechnology as the core made great progress, but also the pharmacodynamic evaluation of Chinese medicine to provide a new way of thinking and methods.

Based on the existing major retrospective analysis of biotechnology, combined with the pharmacodynamic of Chinese medicine and the basic mechanism of material to explore the biology-based technology, discuss the project of pharmacological evaluation of Chinese medicine. Summarized through the collation of the literature and review of research on biotechnology applied to pharmacodynamic evaluation of Chinese medicine analysis and research on the modernization of traditional Chinese medicine a valuable reference work.

This thesis is divided into six parts on: Chapter I, Introduction; the second chapter, an overview of biotechnology, as well as applications in medicine; Chapter III Evaluation of the efficacy of Chinese medicine, recalling research, research methods have been and so on; Chapter IV, Summary of analysis of biotechnology in medicine efficacy evaluation, including genetic engineering, cell engineering, protein

engineering, etc; the fifth chapter, application of research, combined with traditional Chinese medicine in Sichuan Province in three cases of pharmaceutical companies to study the current problems of Chinese medicinal products to explore the introduction of biotechnology to improve the feasibility of the product; Chapter VI, the above research work, summed up the potential of biotechnology applications and prospects.

Results of research on this topic will not only present the theory of traditional Chinese medicine research new ideas and methods, as well as Chinese medicine enterprises to improve product development and product to provide valuable reference.

**Key word:** Biotechnology; Chinese medicine; Pharmacodynamic evaluation;  
Chinese medicine enterprises