

中文題目：刺激淋巴球增生及 Interferon-gamma 分泌之五十種臺灣中藥

英文題目： **The in vitro Lymphocyte Proliferation and Interferon-gamma Secretion stimulated by fifty Chinese Medicines in Taiwan**

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Background and Purpose: In order to develop new immunostimulating natural drug resources, we evaluated the effect on the lymphocyte proliferation activity and secretion of multipotent immunostimulatory cytokine interferon-gamma (IFN- γ) of fifty kinds of popularly used Chinese medicines in Taiwan.

Methods and Results: we evaluated the effect on the lymphocyte proliferation activity and secretion of multipotent immunostimulatory cytokine interferon-gamma (IFN- γ) of fifty kinds of popularly used Chinese medicines in Taiwan using human peripheral blood mononuclear cells (PBMC). Among all of the aqueous extracts tested, the active immunomodulatory rate was 72% including stimulating (62%) and inhibiting (10%) of the proliferation of resting human PBMC, while the active rate for stimulation of IFN- γ secretion was 44%. Fifteen kinds of folk medicines have been commonly used in the treatment of hepatitis in Taiwan, the active immunomodulatory rate was 80% including immunostimulation (60%) and immunoinhibition (20%).

Conclusions: Thus, this suggested that the immunomodulatory activity from popularly used traditional Chinese medicines in Taiwan might be a pivotal factor in protecting human against a variety of disorders including infectious diseases. Further investigations to elucidate the active principles and to evaluate their clinical application are needed.