# Immuno-modulatory activity and FTIR profiles of extracellular and intracellular polysaccharopeptides y trametes versicol


## 葉 村、徐泰浩、林芳儀

E-mail: 322077@mail.dyu.edu.tw



**ABSTRACT**

Trametes versicolor is one of precious fungus for medicinal purposes .Studies shows that it has multiple functions such as anticancer, anti-tumor, inflammation reduction, liver protection and immunity adjustment. Trametes versicolor has essential components including several kinds of polysaccharides, lignin, amino acids, proteins and trace elements. The polysaccharopeptides contain β 1-6 glucan with β1-3 glucan branched chain of biological activity principal constituent the glucose, and both the fruit body and the mycelium have this kind of polysaccharide structure. At present , the fruiting bodies and the mycelium of Trametes versicolor are commercially used as raw materials for Gantai and PSP. The aim of study is to discover the effect of polysaccharopeptides, obtained from fermentation process with or without adding peptides derived intracellular and extracellular of Lycium. Applied on human peripheral blood mononuclear cells. The results showed that intracellular and extracellular polysaccharopeptides, derived from Trametes versicolor with or without adding Lycium barbarum extract, both stimulate human peripheral blood mononuclear cells proliferation. Additionally, it stimulates human peripheral blood mononuclear cell IL-1β , TNF-α and IFN-γ cytokine secretion.



Keywords : human peripheral blood mononuclear cell、Trametes versicolor、Lycium barbarum extracts、polysaccharide peptide 、cytokine


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