

The Antitumour Effect of Purified PSP *Coriolus versicolor* (PCV) *In Vitro* and *Vivo*

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Abstract

Mushroom has attracted attention recently as it is not only a nutritive healthy food but also possesses antitumour effect. Among them, Yamabushitake, Huangmo, *Coriolus versicolor* Krestin (PSK) reported from Japan and *Coriolus versicolor* Cov-1 (PSP) from China were particularly of interest. The main component of PSK and PSP, polysaccharide-peptides have been proved to be the active substances as they possess potent antitumour activity especially immunopotentiating effect as shown in many experimental studies and clinical trials. It was found that the antitumour effect of PSP was more potent than that of PSK. In our laboratory we reported purification of the crude extraction of PSP and isolation of a small peptide, PCV (purified *Coriolus versicolor*) which possessed potent antitumour effect *in vitro* and *in vivo*. The present paper reports our further purification and investigation of PCV on its antitumour effect *in vitro* and *in vivo*. Other activities, such as host immuno-potential and cancer prevention are also indicated.