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Abstract
Cordyceps sp. is one of the common traditional Chinese herb. It has been proved having certain biological activities such as anti-tumor, repairement of liver cells, antioxidant properties, increase of immunity functions, assistement of masculine function and reduction of cardiovascular diseases ect.. The Cordyceps sp. has many kinds of active ingredients to human bodies, including cordycepin, adenosine, polysaccharid, mannitol, organic acids, vitamins and inorganic constituents.
In this study: First, MTT assay was used to evaluate the immunomodulatory activity. The results had shown that the conditional medium from Raw 264.7 which was treated with polysaccharide extracted Cordyceps sp. had the significantly growth-inhibitory effect on MDA-MB-231 and MCF-7 cells. Second, RT-PCR assay was used to evaluate the mRNA expression of cytokines released from Raw 264.7 cells. The results had demonstrated that polysaccharide extracted from Cordyceps sp. had significant effect on Raw 264.7 cells by the increment of the IL-6 and TNF- mRNA expression. Third, native male pheasants fed with the mycelium of Cordyceps sp were used to evaluate the male character development. The cockscomb of native pheasants was used for the evaluation index because of the apparent difference in male appearance phenotype if androgen can be stimulated by Cordyceps sp. Pheasants were divided into 4 groups and were fed with rice cultivated mycelium from Cordyceps sp. with different concentration (Control, 0.05 g/Kg, 0.25 g/Kg, 0.5 g/Kg). Compared to control group, pheasants treated with rice cultivated mycelium from Cordyceps sp. showed the significant effects on the growth of cockscomb. The most efficient effects on the growth of cockscomb was the dose of 0.25 g/Kg, the second one was the dose of 0.5 g/Kg. There were similar effects on the growth of testicle. There have showed obvious growth of seminiferous tubular, rete tubule and vas deferens compared to control group.
Advisory Committee Jian Chyi Chen - advisor

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