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Abstract
Phellinus baumii and Cordyceps sp. are medicinal fungus of Chinese herbs. The objective of this study is to assess the effect of hypoglycemic and diabetic complication on the mice by treating them with herb complexes fermented by Phellinus baumii and Cordyceps sp., these herb complexes were also employed to examine the immunostimulation proliferation of lymphocytes.
We fed the normal mice and the hyperglycemic mice on four kinds of herb complexes, and fed on saline as control. Mice administered with nicotinamide (100 mg/kg, i.p.) 15 min. before an administration of streptozotocin (65 mg/kg, i.p.) were used as hyperglycemic animal model. After one week, hyperglycemic mice was identified with the fasting plasma glucose greater than 180 mg/dl. Afterward we treated 2 dosages (150 mg/kg and 300 mg/kg) of un-fermented and fermented of herb complexes to the mice every day, and treated saline as control. The result show that all the herb complexes is effective in reducing the plasma glucose content and decrease the triglyceride both on normal and hyperglycemic mice. Higher dosages (300 mg/kg/day) of all the Herbs complexes enhanced the hypoglycemic function. Herb complex with Phellinus baumii without fermentation (HCA) is better in hypoglycemic function and immunostimulation proliferation of lymphocytes than that with fermentation (FCA). Herb complex fermentation by Cordyceps sp. (FCB) is better in hypoglycemic function than that without fermentation (HCB), but no significant differences on the immunostimulation proliferation of lymphocytes was found between FCB and HCB.
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