

Biological functions of Fucoidan

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【 Objective 】 Anti cancer effects and health promotive functions of fucoidan, sulfated polysaccharide in brown algae, have been studied, and interesting results have been obtained.

【 Materials and Methods 】 Anti-tumor activity was monitored on mouse with implanted sarcoma 180 cells, and assessed with tumor growth, and, in addition, the splenic NK activity. As for clinical examination, Fucoidan-mix was administered to the patients with cancer, and the preventive effect was evaluated(ex.;tumor markers, radiographic findings).

【 Results and discussion 】 When cancer-transplanted mice ingested the Fucoidan-mix, the tumor weight was significantly decreased compared to that in the control, and the splenic NK cell activity in the mouse was higher than that of control, suggesting that increased NK cell activity suppressed the cancer cell proliferation.

When Fucoidan-mix was dosaged to the patients with cancer, healing effects such as suppressive effects of cancer tissues and tumor markers were observed. In addition, the healing effect of gastric ulcer was obtained. Now I do further examination.