

ANTI-TUMOR ACTIVITY AND ENHANCEMENT OF NK CELL ACTIVITY BY FUCOIDAN MIX

D.Tachikawa, Ph.D. ^{1,2}, M.Nakamizo¹, M.Fujii^{1,3}

¹NPO Fucoidan Research, Fukuoka, Japan

²Matsuzaki Memorial Hospital, Fukuoka, Japan

³Department of Agriculture, Kagoshima University, Kagoshima, Japan

Abstract Background

We showed that fucoidan, extract from seaweed, assessed the important of fucoidan as anti-tumor effect.

Materials and Methods

We examined the effect of Fucoidan Mix in sarcoma 180-bearing mice and NK cell activity.

Results

The tumor weight for cases with Fucoidan Mix administration group was 0.11g, which was lower than 0.18g for those with non-Fucoidan Mix administration group with a significant difference ($p < 0.05$). The activity of NK cell for the Fucoidan Mix administration cases was 31.7%, which was higher than 16.4% for those with non-Fucoidan Mix administration cases with a significant difference ($p < 0.05$).

Conclusion

It may be induced activation of NK cell by administration of Fucoidan Mix. It was suggested Fucoidan Mix should be further investigated as anti-tumor effect of efficacy in malignant tumors. In addition, we have experienced the two cases with treatment of Fucoidan Mix administration. So, we have reported the cases report.