

Anti-Allergy Action

Natural Product Communications. 10, 1597-1601 (2015)

The fermented vegetable extract OM-X (OM-X extract) showed an inhibitory effect on model cells and mice with type I allergy.

Objective

We conducted a study to evaluate the anti-allergic property of the OM-X extract by using cell and mouse models which is an index of the type I allergy, including asthma and hay fever.

Methods

In order to evaluate the anti-allergic effect of the OM-X extract, we examined the action of the OM-X extract on the degranulation on rat basophilic leukemia cells (RBL-2H3) which is a model of mast cell and on passive cutaneous anaphylaxis reaction (PCA) by using mouse models of the type I allergy.

Results

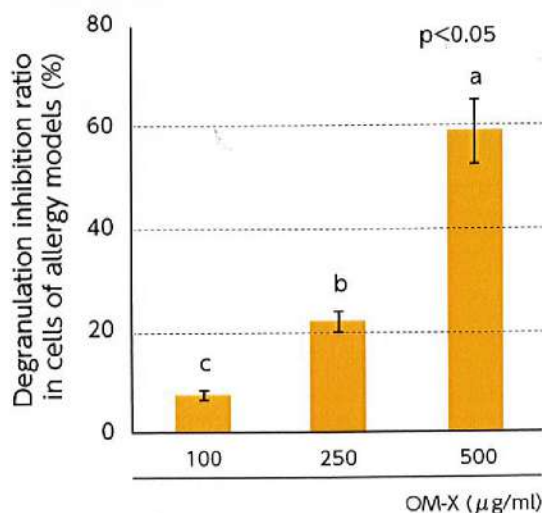
<The inhibitory effect against the degranulation of RBL-2H3 cells>

The degranulation that provokes allergic reactions was inhibited in a dose-dependent manner of the OM-X extract.

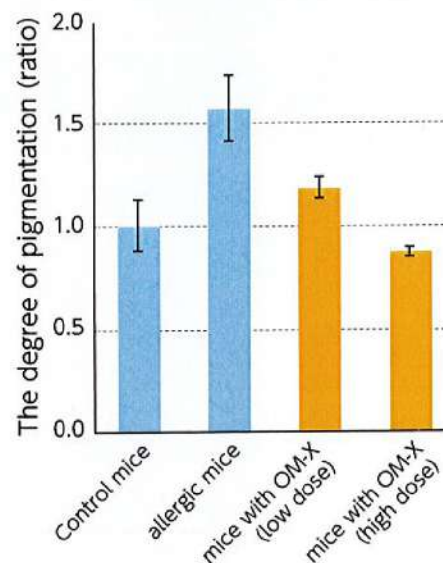
<The inhibitory effect against the type I allergy (mice)>

In the aspect of PCA reaction in mouse models of the type I allergy, the degree of pigmentation decreased and the allergic reactions were suppressed by an ingestion of the OM-X extract.

The inhibitory effect of OM-X on the degranulation (RBL-2H3 cells)



The inhibitory effect of OM-X on PCA reaction (mice)



The fermented extract OM-X is helpful for the type I allergy, including asthma, hay fever, and atopic dermatitis.