

Improvement of Candidiasis

Joint research with The University of Lille, France (2014)

The fermented vegetable extract OM-X (OM-X extract) showed the capability to defend against *Candida albicans* in a mouse model.

Objective

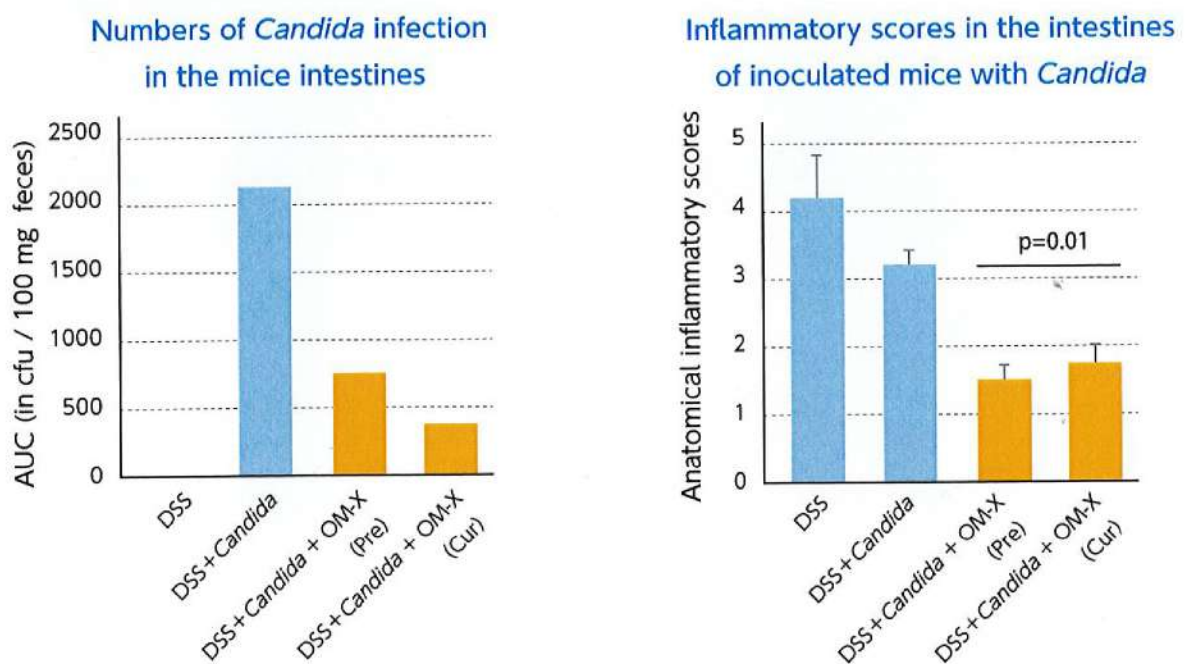
We examined the property of the OM-X extract to defend against candidiasis by using mouse models which are inoculated with *Candida albicans*, a type of fungus causes an intestinal infection.

Methods

Candida albicans was orally administered in order to prepare the mouse models with candidiasis. Then, we set a group which was given the OM-X extract continuously before and after the inoculation with *Candida* (preventive treatment model) and a group which was given OM-X only after the inoculation with *Candida* (curative treatment model). We confirmed that the number of *Candida* infection and inflammatory scores in the mice's intestines.

Results

The inoculated group which did not receive the OM-X extract showed an increment of the number of *Candida*, but the inoculated groups that were given the OM-X extract for both preventive and curative treatments showed a reduction of the number of *Candida*. According to the result from the measurement of inflammatory scores in the intestines, the inoculated group with no administration of the OM-X extract showed high scores. On the other hand, both inoculated groups with the administration of OM-X extract showed significantly low scores. These results suggested that the levels of inflammation in the intestines of mice from the inoculated group with the administration of OM-X extract have been improved.



The fermented extract OM-X reduced the number of *Candida* infection and the inflammatory scores in the intestines of mice inoculated with *Candida*.