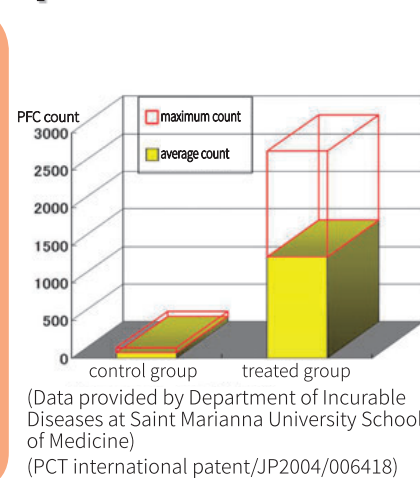


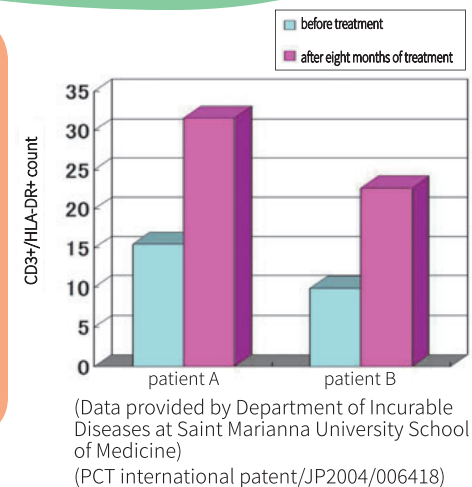
# 1 Remarkable immunoregulatory and immunopotentiative action

a) When elderly mice were given 0.2 ml of basidiomycetes-X extract once a day for fourteen days, the number of plaque forming cells (PFC)\* in the spleen increased by a factor of twenty.

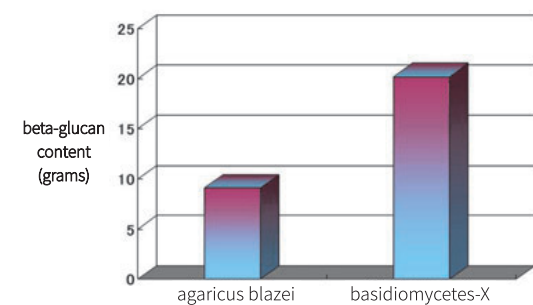
\* Jerne plaque technique: number of antibody-producing cells are counted as plaque.



b) When terminal cancer patients were given 1ml of basidiomycetes-X extract for eight months the T-lymphocyte count (CD3+/HLA-DR+) more than doubled.



## 2 Rich in beta-glucans



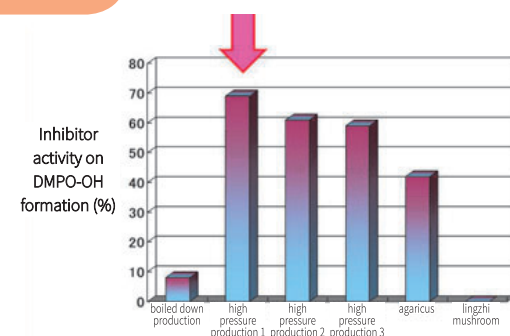
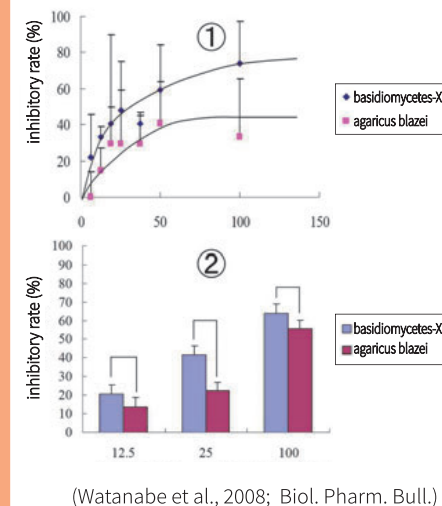
(Data provided by the Konishi Research Lab, Niigata University of Pharmacy and Applied Life Sciences)  
(PCT international patent/JP2004/006418)

Basidiomycetes-X has been found to be twice as rich in beta-glucans\* as agaricus blazei.

\*Beta-glucans are polysaccharides found in plants, fungi and cells. They are known for their powerful immunopotentiative and carcinostatic (anti-tumor) action.

## 3 Powerful antioxidant

a) Functional food is based on the principle of antioxidation. Results of research into the inhibitory effect of basidiomycetes-X on lipid peroxidation of liposomal system (①) and liver homogenate (②) show that it is more powerfully reactive than agaricus.



(Data provided by the Konishi Research Lab, Niigata University of Pharmacy and Applied Life Sciences)  
(PCT international patent/JP2004/006418)

b) Results of research on the ability of basidiomycetes-X extract, produced by super-high pressure processing, to eliminate the hydroxyl radical, show that it is more powerfully active than other mushrooms and antioxidants.

# 4 Improved quality of life and skin condition has been recognized in atopic dermatitis and hay fever patients.

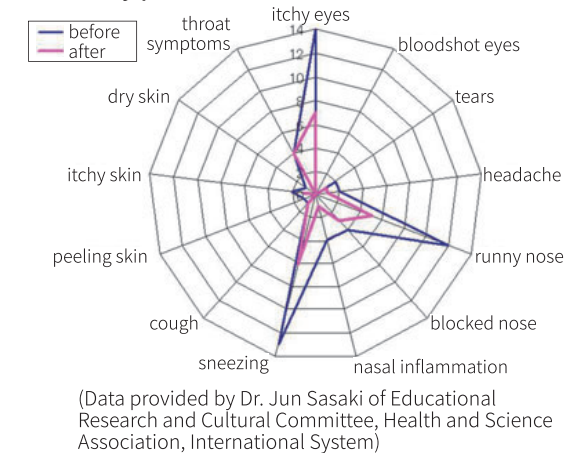
a) When 22 atopic dermatitis patients took five 200g tablets of basidiomycetes-X three times a day for two months, 73 per cent showed improvement both in quality of life and skin condition.



(Data provided by NPO Hibi Reimei Juku)

A dissertation about atopic dermatitis can also be found in the following publication:  
Experimental and Molecular Pathology 105 (2018) 322-327

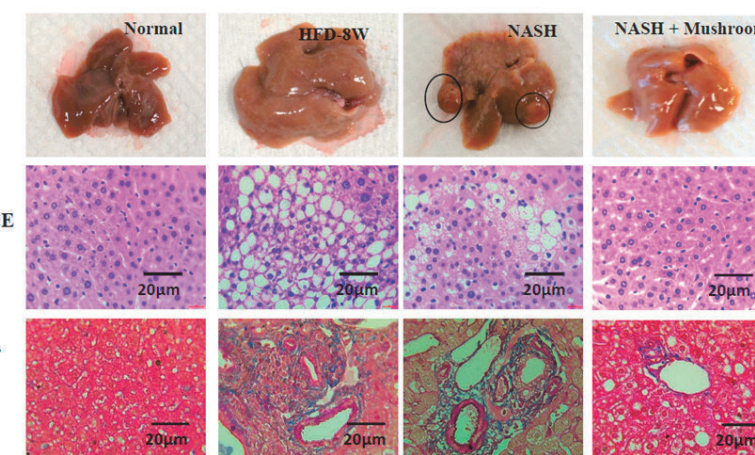
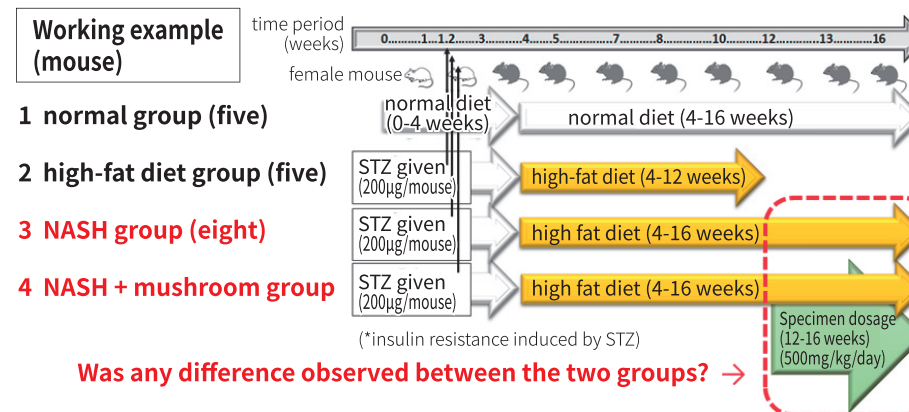
(Hay Fever) “before and after” comparison by patients of number of events



b) When 19 hay fever patients took three 200mg tablets of basidiomycetes-X every day for eight weeks, symptoms such as itchy eyes, runny nose and sneezing showed noticeable improvement.

# 5 Likely to be effective in treating NASH (non-alcoholic steatohepatitis)

## Working example

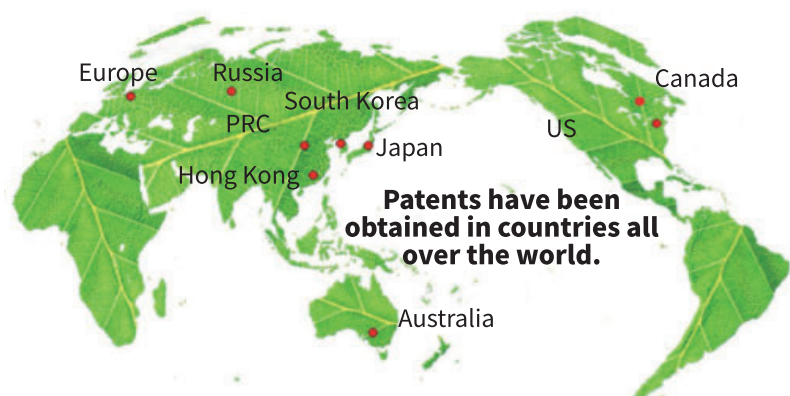


Approximately one week after birth 200µg (per mouse) of STZ was injected under the skin (excluding the normal group). Following preparatory feeding for four weeks after birth, various types of feed were given. From the twelfth to the sixteenth week after birth the treatment group was orally tube-fed 500mg/kg liquid extract (dried powder) of basidiomycetes-X once a day. Mice were dissected in the sixteenth week (the high-fat diet only group was dissected in the twelfth week).

Liver inflammation (hepatitis) and fibrosis in NASH were halted. In particular the transition from chronic hepatitis to cirrhosis and liver cancer was prevented.

(patent application 2017-020741)

## Basidiomycetes-X has been recognized all over the world.



Mycology Techno has obtained cultivation and marketing rights and supplement patents for basidiomycetes-X.