

Starting Stage

(Fiscal Year 2002-2004)



Oita-Ken-ou Area

Development of Technology and Productions to Protect Food Safety and Health and Enhance the Quality of Elder Care

The Oita Prefectural Organization for Industry Creation
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Core Research Organizations

Oita University, Oita Industrial Research Institute

Major Participating Research Organizations

Industry...NISHINIHON & CO.,LTD., HERB DESIGN & FIND NEWS Co., NPO Beppu Hatto Onpaku
Academia...Oita University, Nippon Bunri University, Oita National College of Technology
Government...Oita Industrial Research Institute, Oita-AIST Joint Research Center

Typical result of City Area Program

Development of leaf spray medicine that brings typical reduction of result nitric acid

The technology to reduce nitric acid in farm products while maintaining the harvest yield has been concerned due to the risk of cancer resulted from vegetable.

In this research, development and the commercialization of the leaf spray medicine that increased the polyphenol and the vitamin C that improved the effect of sales at the same time as reducing the nitric acid in farm products. In addition, the investigation was conducted on farm products and economy in terms of "safety of food". "Safety of food" business was pre-evaluated in cooperation with surplus Nokyo and a large-scale shop that had both of the sales force and "Productivity of crops specifically".

As a result, the leaf spray medicine that can reduce the residual nitric acid while having growing the active function of the plant could be developed and be commercialized for the first time domestically. The food waste such as unused molasses and the crashed tea-leaves is used (The safety of food is defended). The leaf spray medicine to aim to improve the productivity of farm products and the quality (Improve market value) is assumed to improve the commercial value further while doing the quality improving as an organic authentication leaf spray medicine in the future.



Acetic sugar Mg
(Fertilizer for foliar application to reduce nitric acid)

About the approach after the project

Launch of the esthetics services using the hot spring mud "Fango"!

Skin test and questionnaires were conducted for the hot spring mud (Fango) out of the hot springs of Beppu Onsen before and after its application for scientific verification of the effect on the skin and healing of Fango esthetics.

Specifically, the methods of Fango esthetics using the hot spring mud of Beppu was established through application of Fango esthetics for more than 900 users. Thanks to its successful results, the trademark for the esthetic services and related products were obtained.

In FY2005 after the project, a facility to provide the esthetic services opened for a full scale operation.



Fango esthetic treatment