

# Food Safety and Reliability

April 1, 2008~

## KAST Project Leader

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**Prof. Keiko Abe**

## Research Advisor

Emeritus Professor of Tokyo University

**Souichi Arai**

## Regional Partnership Advisor

Kanagawa Prefectural Institute of  
Public Health

**Setsuo Tamai**

## Evaluation of functional foods by nutrigenomics

**Keiko Abe**

### Research Organization

Kanagawa Industrial Technology Center  
Kanagawa Prefectural Institute of Public  
Health

Kanagawa Agricultural Technology Center

## Analysis on the mechanisms of food allergy

**Yasuharu Itagaki**

### Research Organization

Kanagawa Prefectural Institute of Public  
Health Local Universities

## GOAL

Creation of  
Public Food Safety Standards  
And Evaluation System

**Cooperative Structure  
with Kanagawa Pref**

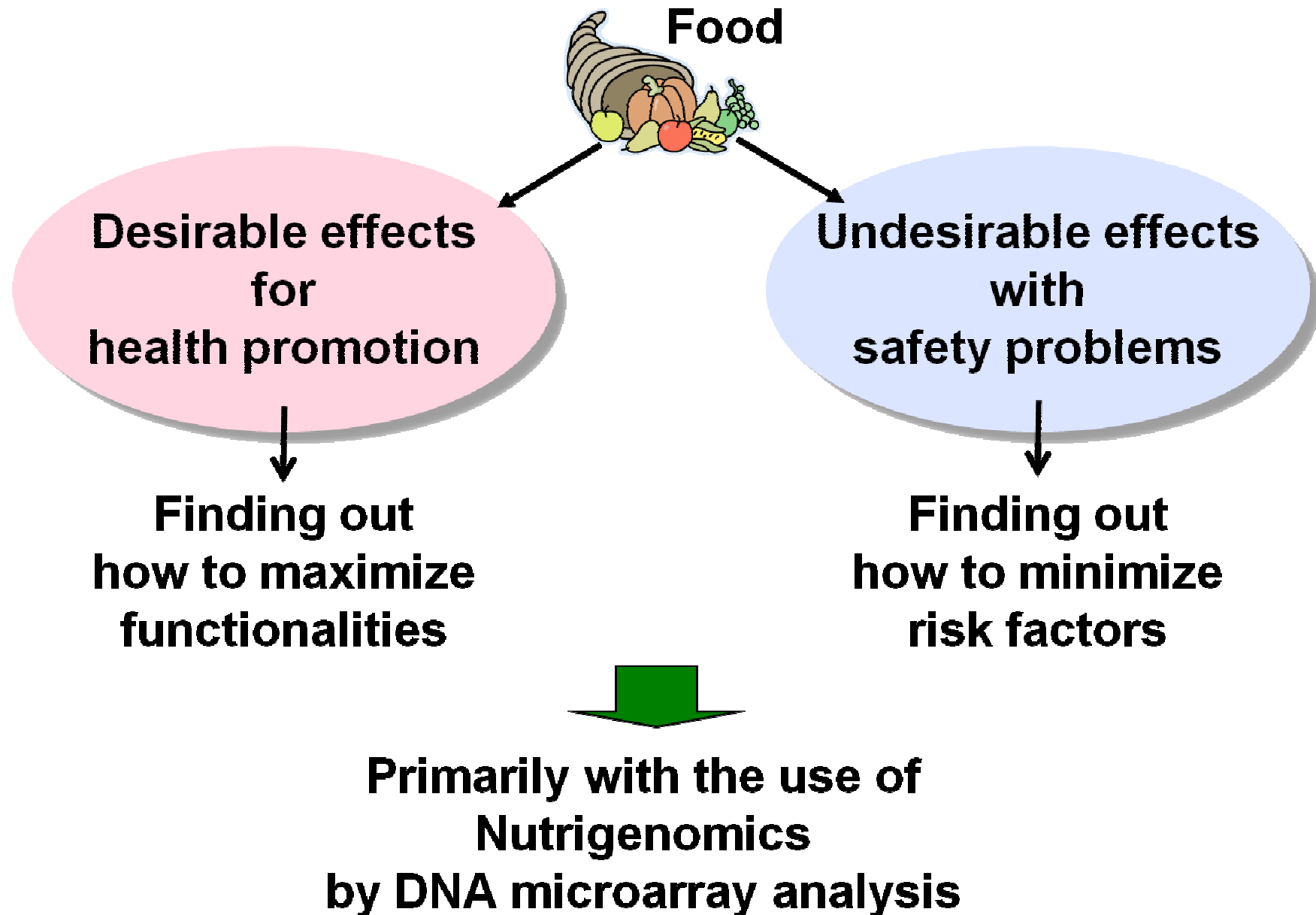
Corroboration with  
Industries

Corroboration with  
Local University

Research and Development  
Cooperation

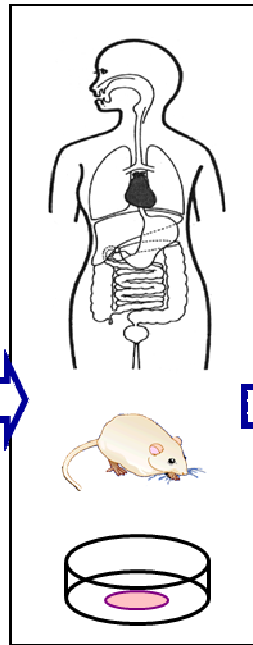
Joint Research  
with Industries

# Gateway of the “Food Safety and Reliability” Project



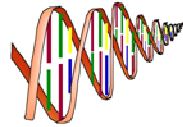


**Functional  
Foods**



**Tissue samples  
Cell lines**

**Genes**

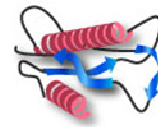


A . . . . A

B . . . . B

C . . . . C

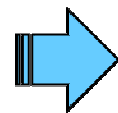
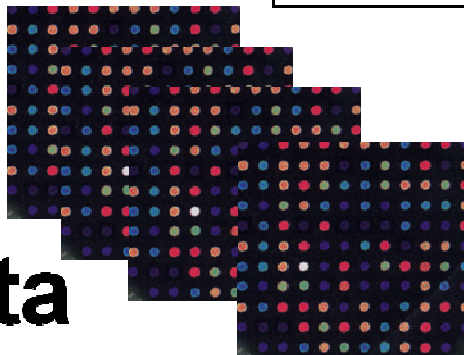
**Proteins**



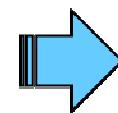
**Evoked  
effects**

**Improved lipid  
metabolism  
Anti-obesity  
Anti-infection  
Anti-oxidation  
Intestinal  
modulation**

**Data**



**Analysis**

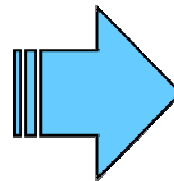


**Verification**

**Evaluation of Functional Foods by Nutrigenomics**

# Nutrigenomics helps understand a food quality as a genomic signature

**Food**



**Signature**

