

### RESEARCH REPORT - No. 1701 FY 2017

Title of research project	Research for establishing the methods of risk assessment for food allergens
Research project no.	1701
Research period	FY 2017
Name of principal research Investigator (PI)	Hirohisa Saito

#### **【Abstract】**

The prevalence of food allergy is estimated to be about 1-2% of the population and 4.6% of the school age in Japan. Food allergy sometimes exerts serious anaphylaxis, and recently it is noted as one of the most important public health problems. To prevent such serious events, based on the Food Safety Basic Law, the Japanese government obligates or recommends to label the ingredients of food allergens. Here, we attempted to make more appropriate and evidence-based risk assessment for food allergens. As a first step of scientific verification, namely, for proposing a draft guideline suitable for Japanese situation, we surveyed, analyzed and discussed the comprehensive data worldwide by focusing on Japanese data. As a result, we described this report entitled “Guideline for Assessment of the Effect of Food on Human Health Regarding Food Allergens (draft)”, by including the following issues; namely, 1. Methods of confirming the causality, 2. Methods of judging the severity, 3. Proper epidemiological investigation, 4. Potential risk of the allergen molecules, 5. Effect of food processing, 6. Proper assessment of the cross reactivity, and 7. Possibility of quantitative risk assessment. To formulate the guideline based on this draft, it is necessary to continue further the examination and the literature review.