

ILSI Japan Biotechnology Research Committee

Application of Data Transportability in ERA of Genetically Modified Plants

Opening remarks and Introduction of ILSI

Specified non-profit organization
International Life Sciences Institute Japan (ILSI Japan)

Mr. Takuji Yasukawa (President, ILSI Japan)

Introduction of International Life Sciences Institute (ILSI)

ILSI - Global Partnerships for a Healthier World -



ILSI (International Life Sciences Institute) is a nonprofit, worldwide foundation established in 1978 in the U.S. (Washington, D.C.).

Principles: Benefit Society. Provides scientific views on issues related to health, nutrition, safety and the environment. From basic research to practical activities.

Carrying out activities through headquarters in Washington, D.C. and 16 independent branches. Consists of 513 company members worldwide (as of 2016).

Official observer of international meetings*) of United Nations. Providing information and opinions. Contributes to construction of international regulatory framework based on science.

*) Examples: CODEX, FAO, WHO

ILSI - Global Partnerships for a Healthier World -



ILSI Japan

The first regional branch established in 1981, three years after the establishment of the HQ.

Resolving scientific issues relating health, nutrition, food safety and the environment.

Carrying out research and studies both in the country and overseas led by research committees, task forces, and committees.

Activities include Food risk assessment task force, Food microorganism task force, Healthful diet research committee, Nutrition task force, Biotechnology research committee, International cooperation committee.

Outcome of the activities are made available to the public by debriefing session, seminars, symposia, monograph and report.

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ILSI Japan Organization

ILSI Japan obtained certification as a specified nonprofit corporation (NPO corporation) in 2001. ILSI Japan consists of 69 individuals and organizations (as of April 2018). The members can freely participate in the committees, research committees and task forces as shown below and find solutions of the problems by having access to up-to-date scientific information.



Participation of Academia

Consultant for ILSI Japan Biotechnology Research Committee

Kenichi Hayashi (Emeritus Member of Advisory Council of ILSI CERA (Center for Environmental Risk Assessment), a former vice-chairman of OECD's Working group on the Harmonization of Regulatory Oversight in Biotechnology)

Advisors for ILSI Japan Biotechnology Research Committee

Ryo Ohsawa (Professor, Faculty of Life and Environmental Sciences, University of Tsukuba)

Shinobu Satoh (Vice President and Professor, Faculty of Life and Environmental Sciences, University of Tsukuba)

in the order of the Japanese syllabary

Goals of Biotechnology Research Committee

Conducts research and studies on safety and use of biotechnology derived food/plants, and provides information from scientific perspectives while ensuring the international harmonization

- Environmental risk assessment of genetically modified crops (ERA projects)
 - Domestic and international trends on research and development of genome editing technology
 - Safety assessment of proteins produced by introduced genes
 - Molecular biological assessment of genetically modified food/plants
- etc

	Year	Category				
		ERA	Food/Feed	Detection method	Labeling	NBT
ILSI Biotechnology international seminar - Basis for development of new technology utilizing fermented foods and social evaluation	1988		○			
"Biotechnology derived foods – toward social acceptance –" International symposium	1993		○			
ILSI Japan biotechnology panel discussion Progress of biotechnology derived foods - from the stand point of GM crop developer -	1996		○			
Labeling for GM foods (Food labeling conference reported by GM food committee)	1999				○	
Biotechnology and food safety symposium: <u>FAO/WHO Symposium on Biotechnology and Food Safety during Codex committee meeting</u>	2000		○			
ILSI Japan symposium: GM foods – What kinds of testing are conducted in order to confirm safety?	2000		○			
Symposium: GM foods "How to be labeled?" ①	2001				○	
Symposium: GM foods "How to be labeled?" ②	2001				○	
Symposium: GM foods "What kinds of testing are conducted in order to confirm safety?"	2001		○			
ILSI Japan symposium: Future of plant biotechnology	2001		○			
ILSI Japan symposium: GM foods "What kinds of testing are conducted in order to confirm safety?"	2001		○			
ILSI HESI/ILSI Japan Workshop on protein <u>allergenicity</u>	2003		○			
"Food allergy" Workshop	2004		○			
International workshop on <u>detection methods</u> for GM crops	2004			○		
Workshop on nutritional and safety assessments of nutritionally improved foods/feeds derived from GM technology	2005		○			

Food safety assessment

	Year	Category				
		ERA	Food/Feed	Detection method	Labeling	NBT
<u>International workshop</u> on environmental risk assessments/Biodiversity assessment of genetically modified organisms	2006	○				
<u>2nd International workshop</u> on environmental risk assessments/Biodiversity assessment of genetically modified organisms	2007	○				
Post-ISO workshop "International trends in GMO detection method"	2010			○		
Japan-Korea CERA symposium "ERA for GMO plants with low exposure"	2011	○				
International trends in ERA of GMO crops (What was discussed at the 12th international symposium on biosafety of genetically modified organisms)	2012	○				
Symposium on the environmental risk assessment of living modified organisms imported for food, feed and processing	2013	○				
Workshop on NBT for regulatory considerations	2013					○
The latest trends both within and outside Japan in allergenicity assessment of proteins	2014		○			
Workshop on international trends in NBT	2014					○
Workshop on use of genome editing technology in agriculture	2015					○
ERA workshop	2016	○				
Follow-up study session for ERA workshop	2016	○				
Use of genome editing technology in agriculture in Japan and overseas – now and the future	2017					○
Study session for use of the next generation sequencer for safety assessment of GM foods	2017			○		
Study session for ERA	2018	○				

Data transportability of confined field trial data

Genome editing

Goals of Workshop for ERA of Genetically Modified Plants

Goals of today's Workshop

Sustainable Development Goals

Social sustainability; Research and application of biotechnology are necessary

During the last 15 years after the enforcement of the Cartagena Law,

- More than 170 GM crops have been evaluated for environmental risk and approved for open field use
- ERA review process was improved based on the accumulated knowledge in order to conduct more efficient ERA



Workshops to further promote scientific ERA

- Review the purpose and meaning of field trials based on the experience in Japan, U.S., Europe and South America
- Learn and deepen the discussions on data transportability for confined field trials based on the past experiences in each country