ILSI International Food Biotechnology Committee

ILSI IFBiC WORKSHOP
THURSDAY, SEPTEMBER 13 TO SATURDAY SEPTEMBER 15, 2012
SAFETY OF GM CROPS: COMPOSITIONAL ANALYSIS
AGENDA

Day 1: Thursday, 13 September 2012

12:00 noon – 1:00 p.m. Buffet lunch

1:00 – 1:20 p.m. Welcome Remarks; Workshop Objectives. *Co-chair: ILSI IFBiC Crop Composition Issues Task Force, Phil Brune, Syngenta Crop Protection, USA*

1:20 -2:20 p.m. Opening Presentation and Discussion: The Genetics and Consequences of Crop Domestication. *Sherry Flint-Garcia, USDA ARS, USA*

2:20 – 5:25 p.m. Session 1: Conventional Development of New Crop Varieties. *Session Chair: Wayne Parrott, University of Georgia, USA*

Presentation 1.1: Traditional and Modern Plant Breeding Methods with Discussion of Cases on Rice. *Flavio Breseghello, Embrapa, Brazil*

Presentation 1.2: Genomic Variation in Plants Recovered Through Plant Cell and Tissue Culture. *John Finer, The Ohio State University, USA*

Presentation 1.3: Mineral Biofortification Strategies for Major Staples: the Example of Common Bean. *Matthew Blair, Universidad Nacional de Colombia, Colombia and Cornell University, USA*

Presentation 1.4: Natural Variability in Wheat Grain Composition. *Peter Shewry, Rothamsted Research, UK*

Panel Q & A Session

6:30 – 7:30 p.m. ILSI IFBiC-sponsored dinner

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Day 2: Friday, 14 September 2012

8:30 – 9:00 a.m. Continental breakfast

9:00 – 11:40 a.m. Session 2: Development of Crops Using Modern Biotechnology. *Session Chair: William P. Ridley, Consultant, (Monsanto Company, retired), USA*

Presentation 2.1: A Look at Product Development with Genetically Modified Crops: Examples from Maize. *Rita Mumm, University of Illinois, USA*

Presentation 2.2: Bringing a Transgenic Crop to Market – Where Compositional Analysis Fits. *Laura Privalle, BASF Plant Science, USA*

Presentation 2.3: Availability and Utility of Crop Composition Data. *Kazumi Kitta, National Agriculture and Food Research Organization, Japan*

Panel Q & A Session

12:00 noon – 2:10 p.m. Round Table Discussions *(with lunch)*:

A. How does transgenic methodology affect the resultant progeny compared to the methodology employed during traditional plant breeding? Is the likelihood of generating unintended effects inherently greater with one methodology compared to the other? If so, is the difference great enough to merit a safety assessment? (Are there circumstances where crop composition would not be considered as "necessary" in the safety assessment?) *Rapporteur: Owen Hoekenga, USDA ARS, USA*

B. How does the inherent variability of crop components affect data interpretation and the subsequent safety evaluation? What role does inherent variability play in evaluating the safety consequences of any unintended effects? How can crop composition databases be used to define inherent variability in composition? *Rapporteur: Gerard Barry, IRRI, Philippines*

Reports/Consensus from Round Table Discussions

2:25 – 4:45 p.m. Session 3: Compositional Analysis Methods. *Session Chair: Joanne Holden, USDA ARS (retired), USA*

Presentation 3.1: OECD Composition Consensus Documents. *Kathleen Jones, US FDA, USA*

Presentation 3.2: How Composition Methods are Developed and Validated. *Hilary Rogers, Eurofins Scientific, USA*

Presentation 3.3: Evaluation of Endogenous Allergens for the Safety Evaluation of Genetically Engineered Food Crops: A Review of Methods and Relevance. *Richard Goodman, University of Nebraska-Lincoln, USA*

Panel Q & A Session

Evening at leisure (no scheduled activity)

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Day 3: Saturday, 15 September 2012

7:30 – 8:00 a.m. Continental breakfast

8:00 – 11:15 a.m. Session 4: Interpretation of Composition Data. *Session Chair: Bill Price, US FDA (retired), USA*

Presentation 4.1: Food Safety: Importance of Composition. *Wilna Jansen van Rijssen, personal capacity (retired from the South African Department of Health), South Africa*

Presentation 4.2: Biological Importance and Statistical Significance. *David Lovell, University of London, UK*

Presentation 4.3: Regulatory Perspectives on How Composition Data are Interpreted - Food. *Lynne Underhill, Health Canada, Canada*

Presentation 4.4: Regulatory Perspectives on How Composition Data are Interpreted - Feed. *Bill Price, US FDA (Retired), USA*

Panel Q & A Session

11:35 a.m. – 1:45 p.m. Round Table Discussions *(with lunch)*:

A. What is the appropriate comparator to use in a compositional analysis study to support the safety assessment? What defines history of safe use/safe consumption? *Rapporteur: Andrew Bartholomaeus, University of Canberra and University of Queensland, Australia*

B. What factors are to be considered when determining what tissues and what components should be included in the analysis? Are current OECD guidelines adequate? *Rapporteur: Jannavi Srinivasan, US FDA, USA*

Reports/Consensus from Round Table Discussions

2:00 – 2:30 p.m. Final Wrap-up with Review of Reports from all Round Table Discussions and Next Steps. *Co-chair: ILSI IFBiC Crop Composition Issues Task Force, Angela Hendrickson Culler, Monsanto Company, USA*