

Crop Composition as a Component of Food and Feed Safety Assessment and Hands on with the New AFSI Crop Composition Database

Nutritional composition studies that assess similarities and differences of levels of important nutrients and anti-nutrients are an essential part of the safety assessment of new crop varieties that are used as food and feed. It is important to understand the purpose of the data and its context in the safety assessment.

This workshop will provide an opportunity to briefly discuss the rationale for considering crop composition data, how that data is interpreted in the context of the safety assessment and what the limitations are to compositional studies. The workshop will also introduce participants to a resource for assisting in the interpretation of compositional studies, the AFSI Crop Composition database.

Participants will see a demonstration of the database and new features included in version 9.1. Then, participants will be provided with a series of exercises designed to help them understand the search reporting function of the AFSI Crop Composition Database that they can walk through using their personal laptop during the workshop.

Participants should bring their laptop to the workshop.

Agenda

Time	Presentation/Activity	Speaker/Facilitator
5 min	Welcome and overview of the Crop Composition Database	Dr. Bhavneet Bajaj Manager Scientific Programs Agriculture & Food Systems Institute, USA
15 min	Variability in conventionally bred plant varieties in general and the factors involved that affect composition (recorded presentation)	Dr. Véronique J. Barthet Research Scientist Canadian Grain Commission Canada
15 min	Ranges of analyte levels in Crop Composition Database in the context of variability captured, data distribution, and analytical methodologies	Dr. Mohamed Bedair Compositional Biology Lead Bayer Crop Science, USA
15 min	An overview of the potato composition data in the Crop Composition Database	Ms. Muffy Koch Senior Regulatory Affairs Manager JR Simplot Company, USA
40 min	Crop Composition Database: Operations and data output and Exercises for hands-on use of the database	Dr. Bhavneet Bajaj Manager Scientific Programs Agriculture & Food Systems Institute, USA