

University of Maryland

Joint Institute for Food Safety and Applied Nutrition (JIFSAN)

FoodRisk.org – Risk Analysis Tools and Data

A Guided Tour by Tool Creators

November 1-2, 2017

Greenbelt Marriott Hotel, Greenbelt, MD, USA



WORKSHOP BACKGROUND

Over the years, a number of tools have been developed to assist food safety risk analysts in their modeling efforts. These tools have been developed with public funds and are freely available at JIFSAN's Foodrisk.org website. This workshop introduces stakeholders to these tools and provides examples of how they are used by the agencies to support food safety regulatory decisions.

Speakers will include those who assisted with the development of these tools, those who use these tools to aid their analysis, as well as program managers who had the insight to leverage funds to facilitate the development of a public platform to freely disseminate these tools to interested users. These tools have been peer reviewed and aid analysts in rapidly being able to assess food safety risks.

Participants are welcome from all different sectors and levels of knowledge from the risk analysis community. Participants are asked to bring their own laptop to view and follow along with live demonstrations of these public tools and datasets.

PRE-REQUISITE

Bring your laptop. Wireless internet is included in the cost of registration.

PRESENTATION FORMAT

Presenters will give a background on their tool and/or dataset with reasons for why the tool was initially created and as how it has evolved over time. Examples will be provided of risk assessments that might be performed. One risk assessment example will be chosen for a live walkthrough of a risk assessment that uses the tool and/or dataset with participants in the audience able to follow along and ask questions. Members of the JIFSAN IT team will be available to provide participants with technical support.

PRESENTATIONS

FoodRisk.org Workshop Introduction

Framing and introduction to the FoodRisk.org Workshop. A ‘what to expect’ and a welcome by the Chairs of the JIFSAN Advisory Council Symposium/Workshop Organizing Committee.

- Tony Flood – International Food Information Council
- Cody Wilson – The Coca Cola Company, Inc.

FoodRisk.org and The InterAgency Risk Assessment Consortium

An explanation of the relationship between InterAgency Risk Assessment Consortium and JIFSAN and their shared commitment to advancing food safety risk assessment through shared tools, models, and data.

- Janell Kause – U.S. Department of Agriculture/Food Safety Inspection Service
- Sherri Dennis – Food and Drug Administration/Center for Food Safety and Applied Nutrition

FoodRisk.org MetaDataBase

Launching in October of 2017, the FoodRisk.org MetaDataBase aims to provide users with information and links to datasets, risk assessments, trainings, and tools for food safety risk analysis. Resources include those exclusive to FoodRisk.org and links to publically available resources vital to community.

- Kyle McKillop – University of Maryland/Joint Institute for Food Safety and Applied Nutrition

COMPARE Database

The COMprehensive Protein Allergen REsource is a new comprehensive repository of protein sequences of known or putative allergens. It was created via the development of an automated “rule-based” sorting algorithm tool, combined with a review of the literature associated with the identified sequences. An independent peer-review panel of allergy experts exclusively from the public sector decides on the final content of the database. These three rigorous and well documented processes have been carefully designed to meet the needs for allergy safety assessment. The combination of these three processes has resulted in the new COMPARE database released on 03 February 2017. The database includes a comprehensive repository of all known allergens, with the addition of newly identified allergens. The cycle will repeat annually for regular updates.

- Lucilia Mouries – International Life Science Institute (ILSI)/Health and Environmental Sciences Institute
- Scott McClain - Syngenta

U.S. EPA’s Food Commodity Intake Database

The U.S. EPA’s What We Eat in America - Food Commodity Intake Database (WWEIA-FCID 2005-10) was developed by U.S. EPA’s Office of Pesticide Programs (OPP) to improve the utility

of the WWEIA food consumption survey for dietary exposure assessment. WWEIA-FCID 2005-10 translates food consumption as reported eaten in WWEIA (1999-10 survey cycles) and CSFII (1994-96/1998) surveys into consumption of U.S. EPA-defined food commodities.

- David Miller – Environmental Protection Agency/Office of Pesticide Programs
- Judy Spungen – Food and Drug Administration/Center for Food Safety and Applied Nutrition

USDA’s Food Data System (FoodS)

Insight into the upcoming changes and explanation of USDA’s nutrition composition databases such as Standard Reference and the Branded Food Products Database. Also a discussion on the Food and Nutrient Database for Dietary Studies and its impact on What We Eat in America and the National Health and Nutrition Examination Survey.

- Alanna Moshfegh – U.S. Department Agriculture (USDA)/Agricultural Research Service
- Pamela Pehrsson – U.S. Department Agriculture (USDA)/Agricultural Research Service

FDA-iRISK® 4.0: A Comparative Risk-Assessment Tool

FDA-iRISK® is a Web-based risk-assessment tool developed by the U.S. Food and Drug Administration (FDA). Version 4.0 is now available and includes a number of new features and enhancements. This food-safety modeling tool enables users to compare and rank risks from multiple microbial and chemical hazards and predict effectiveness of prevention and control measures, expressed as public-health metrics. Risk managers and other stakeholders can use FDA-iRISK to inform food-safety policy and management decisions.

- Yuhuan Chen - Food and Drug Administration/Center for Food Safety and Applied Nutrition
- Greg Paoli – Risk Sciences International

Other FoodRisk.org Offerings

Presentations on other tools available and a preview of tool(s) under development at JIFSAN coming to FoodRisk.org.

- Tool Creators and Administrators

Workshop Thoughts and Conclusion

Final thoughts from presenters and participants on future digital efforts of food safety risk analysis.

- Workshop Presenters