

Workshop – Cordoba, Spain, 26 September 2017

Risk Assessment Modelling and Knowledge Sharing Initiatives (RAKIP/FDA-iRISK®)

WORKSHOP:

“Risk Assessment Modelling and Knowledge Sharing Initiatives (RAKIP/FDA-iRISK®)”

Chairs:

Matthias Filter² and Fernando Pérez-Rodríguez³

Tutors:

Yuhuan Chen¹; Paw Dalgaard⁴; Maarten Nauta⁴; Laurent Guillier⁵; Carolina Plaza Rodríguez²; Leticia Ungaretti Haberbeck⁴; Virginie Desvignes⁵; Miguel de Alba Aparicio², Matthias Filter²

¹ U.S. Food and Drug Administration; Center for Food Safety and Applied Nutrition; Office of Analytics and Outreach Division of Risk and Decision Analysis; Risk Analysis Branch; College Park, MD 20740

² Federal Institute for Risk Assessment (BfR). Unit Food Technologies, Supply Chains and Food Defense. Department 4 -Biological Safety-, Berlin (Germany).

³ Department of Food Science and Technology, International Campus of Excellence in the AgriFood Sector (ceiA3), University of Córdoba. Córdoba (Spain).

⁴ Technical University of Denmark. National Food Institute (DTU Food). Kemitorvet, Buildings 201-204 on Lyngby Campus, DK-2800 Kgs. Lyngby (Denmark).

⁵ French Agency for Food, Environmental and Occupational Health & Safety (ANSES).14 rue Pierre et Marie Curie 94701 Maisons-Alfort. Cedex (France).

Abstract:

Food safety as a global challenge requires efficient knowledge transfer between academia, business operators and governmental agencies. Currently, a rich variety of useful models, software tools and databases exists, but exchange of information between these resources is so far extremely difficult and time consuming.

This ICPMF pre-conference workshop will provide an introduction and training on predictive modelling and risk assessment resources generated in Europe and North America, such as the joint RAKIP project by BfR, DTU and ANSES, and the FDA-iRISK project by FDA and RSI, publically available through JIFSAN. Development of these new, open, community-driven / community-oriented resources help to overcome the challenge in information exchange. Specifically, the newly developed data standard “Food Safety Knowledge Markup Language” (FSK-ML), controlled vocabularies and open source software code libraries and tools will be introduced, along with data extension and import utility features in FDA-iRISK, which enable users to upload external data in a familiar format (e.g., csv) and to integrate an existing model through shared dose-response, consumption, or risk model libraries. The practical training session will give participants the opportunity to learn recent progress that makes it easy to share their own data, predictive models or modules of Risk Assessment (RA) with the scientific community in a harmonized way. Further, participants will learn how RA modules or predictive microbial models can be combined, adapted and used in simulations with freely available software tools like FSK-Lab, FDA-iRISK, R and others.

AGENDA:

Introduction

2:00 PM - 4:00 PM

Welcome

10 min
(F. Perez Rodriguez, UCO)

Community driven Food Safety Model Repositories - vision and status

30 min
(L. Guillier, ANSES)

FDA-iRISK[®]: recent developments and next steps

30 min
(Y. Chen, FDA)

New resources for harmonized model annotation and exchange

25 min
(M. Filter, BfR)

Demo the RAKIP achievements in the area of predictive microbial modelling

25 min
(L. Haberbeck, DTU)

Coffee break

4:00 PM – 4:15 PM

Parallel live demo user trainings (DTU / ANSES / BfR / FDA)

4:15 PM – 6:00 PM

Parallel - FDA-iRISK demo / training

3 x 30 min

Parallel - FSK-Lab demo / training

3 x 30 min

Parallel - RAKIP portal demo / training

3 x 30 min

Summary and Outlook

15 min