Trainings on Tools and Methods for RA: BIKE model for exposure assessment

Finland´s tailor-made activity

**Risk Assessment Unit
Finnish Food Authority**

Training: BIKE model for exposure assessment

SUMMARY:

- Combination of webinars & Moodle e-learning platform for course materials & Workshop.

- Participants to be selected from Countries via FPs and FP-network observers.
    - 1 per Country/year (possibly more if some places are left empty)

- Trainings running 2023-2027 (one course every year, one place per country/year)

BIKE model for exposure assessment

FORMAT OF ATTENDANCE:

+ Participation in webinars
+ Access to Moodle e-learning platform with course materials
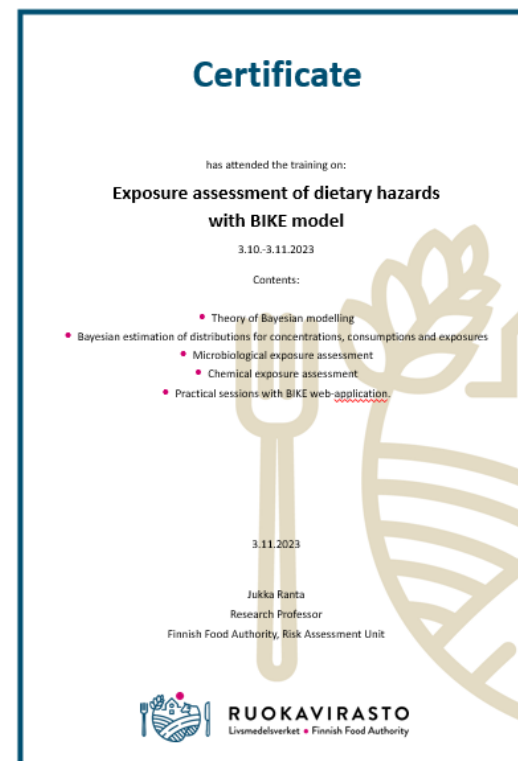+ Participation in workshop (on-site Helsinki)

DATES 2024:
Webinars (on-line)

- Week 39:   29.9. (10-15 CET)
- Week 40:   1.10., and 3.10. (10-14 CET)
- Week 41:   8.10., and 10.10. (10-14 CET)
- Week 43:   22.10., and 24.10. (10-14 CET)

Workshop (Helsinki)

- Week 44:   31.10-1.11.

Certificate

has attended the training on:

**Exposure assessment of dietary hazards
with BIKE model**

3.10.-3.11.2023

Contents:

- Theory of Bayesian modelling
- Bayesian estimation of distributions for concentrations, consumptions and exposures
- Microbiological exposure assessment
- Chemical exposure assessment
- Practical sessions with BIKE web-application.

3.11.2023

Jukka Ranta
Research Professor
Finnish Food Authority, Risk Assessment Unit

RUOKAVIRASTO
Livsmedelsverket • Finnish Food Authority

*Certificate of participation
by attending ≥6 webinars & Workshop.*

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PROFILE OF TARGET PARTICIPANTS:

- Risk assessors conducting quantitative assessments of dietary exposures of chemicals and/or microbes.

- Scientific background in chemical/microbiological/food science/food hygiene/statistics or similar.

- Familiar to basic statistical concepts (variable, parameter, distribution).

- Interested in quantitative risk assessment and data analysis.

- Willing to study and do course work!

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STRUCTURE OF WEBINARS:

- Lecture presentations with slides.

- Q&A discussions.

- Each webinar topic has materials available in Moodle.

  - Participants register to Moodle platform, from which they are linked to the course pages.

- Moodle e-learning materials can be used for self-study between and after the webinars.

Participant´s feedback from last year related webinars:
After each webinar, the participants were asked for feedback, e.g. Did your knowledge on today's topic increase? (results sum of webinars 1-7 in figure)

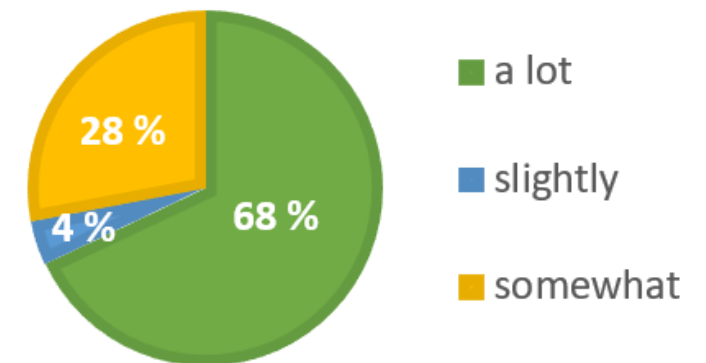**DID YOUR KNOWLEDGE ON WEBINAR TOPICS INCREASE?**

- a lot
- slightly
- somewhat

28 %
4 %
68 %

Fig.

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CONTENTS AND TOPICS OF WEBINARS:

- **Theoretical part (concepts and principles)**
  - Preliminary topics on probability and Bayesian statistics.
  - Underlying principle of the computational method and tools.
  - Conceptual structure of Bayesian models.
  - Concepts of chemical and microbiological dietary exposure assessments.

- **Practical part (software)**
  - Format of data and requirements.
  - Structure of the application tool BIKE.
  - Estimating concentration & consumption distributions in BIKE.
  - Microbiological and chemical exposure assessment in BIKE.

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WORKSHOP:

- On site training and recap.

- At Finnish Food Authority, Helsinki.

- 31.10-1.11 2024.

  - Workshop activity.

  - Dinner on 31.10 evening (free).

  - Travel costs up to € 500 reimbursed, 1 per Country.

- Own lap-top computers needed.

- Knowledge from the preceding webinars needed.

- We request participants kindly to install needed software to their computers beforehand. Instructions will be provided.

Participants feedback from last year related workshop:

Thank you for the time and effort you have invested in making the BIKE workshop a valuable experience for all of us. It was great meeting you all face to face and teaching us how to use the BIKE model.

BIKE model for exposure assessment

NEXT STEPS FOR FOCAL POINTS AND OBSERVERS:

- Discuss who could participate and inform them.
- Send the candidate's name and email address by email to: BIKE@ruokavirasto.fi
  - **Latest 21 June 2024**

- The candidates receive invitation, after which they can log-in to Moodle platform.

Risk Assessment Unit of

FINNISH FOOD AUTHORITY

Ruokavirasto ● Livsmedelsverket