



4th International Akademie Fresenius MIXTOX Conference

Toxicity of Chemical Mixtures: Risk, Hazard and Exposure Assessment

+++ ONLINE CONFERENCE +++

12 and 13 June 2023

Highlights

- EFSA's scientific strategy on mixtures risk assessment and the main outcomes of the EFSA ONE Conference
- RIVM on the RACEMiC Roadmap for Combined Exposure to Multiple Chemicals
- Member State view: Ecotoxicological risk assessment of mixtures from Ctgb
- REACH and Mixture Assessment Factor (MAF)
- The HBM4EU-SPECIMEn study
- EFSA-RIVM cooperation on software for human mixture risk assessment
- EFSA's standard approach on mixtures for aquatic organisms: A component-based risk assessments and the use of the RQmix approach (RQ = PEC/RAC) as a better alternative
- Plant protection: Aggregate exposure assessment for dietary and non-dietary exposure



The Experts

Denise Bloch German Federal Institute for Risk Assessment (BfR) | **Amélie Crépet** French Agency for Food, Environmental and Occupational Health & Safety (ANSES) | **Bruno Dujardin** European Food Safety Authority (EFSA) | **Gero Eck** Exponent International | **Esther de Jong** Dutch National Institute for Public Health and the Environment (RIVM) | **Marion Junghans** Centre Ecotox | **Marc Kennedy** Fera Science | **Jacob van Klaveren** Dutch National Institute for Public Health and the Environment (RIVM) | **Olwenn Martin** University College London | **Stephanie Melching-Kollmuss** BASF/ CropLife Europe Working Group on Cumulative Risk Assessment | **Finn Pedersen** European Commission | **Nathalie Vallotton** Dow Europe | **Jelle Vlaanderen** Utrecht University | **Arnd Weyers** Bayer Crop Science | **Martin Wilks** Swiss Centre for Applied Human Toxicology | **Mathilde Zorn** Dutch Board for the Authorisation of Plant Protection Products and Biocides (Ctgb)

Monday, 12 June 2023

Timings are in
Central European Summer Time [CEST](#).

 Morning Session | 09:30 – 13:00 CEST

09:30 **Welcome address by the organisers and the Chairs**

Stephanie Melching-Kollmuss, BASF/CropLife Europe
Working Group on Cumulative Risk Assessment, Germany
Martin Wilks, Swiss Centre for Applied Human Toxicology,
Switzerland

Mixture Assessment in Europe – Strategies and a Way Forward

09:40 **The Chemicals Strategy for Sustainability (CSS)
and Mixtures**

Finn Pedersen, European Commission, Belgium

10:15 **EFSA's scientific strategy on mixtures risk assessment
and the main outcomes of the EFSA ONE Conference**

Bruno Dujardin, European Food Safety Authority (EFSA), Italy

10:50 **REACH and Mixture Assessment Factor (MAF)**

Nathalie Vallotton, Dow Europe, Switzerland

11:25 **Coffee break**

Risk Assessment of Chemical Mixtures: Human Health

11:50 **Development of a roadmap for action on risk
assessment of combined exposure to multiple chemicals**

- Need for a roadmap on mixture risk assessment
- Current state of play on mixture risk assessment
- Project proposal to fill gaps in available data, methods and tools

Esther de Jong, National Institute for Public Health and the
Environment (RIVM), The Netherlands

12:25 **Real-life mixtures - activities under the PARC Project**

Amélie Crépet, French Agency for Food, Environmental
and Occupational Health & Safety (ANSES), France

13:00 **Lunch break**

 Afternoon Session | 14:00 – 16:40 CEST

14:00 **EFSA-RIVM cooperation on software for human
mixture risk assessment**

- The Monte Carlo Risk Assessment software (MCRA)
- How the software might be used by European regulators to fulfil regulatory requirements
- How the software might be used by study owners of human biomonitoring data in PARC
- Training activities

Jacob van Klaveren, National Institute for Public Health and
the Environment (RIVM), The Netherlands

14:35 **The HBM4EU-SPECIMEn study and the use of its
data to study mixture exposure**

Jelle Vlaanderen, Utrecht University, The Netherlands

15:10 **Coffee break**

15:30 **Aggregate exposure assessment for dietary and
non-dietary exposure**

Marc Kennedy, Fera Science, United Kingdom

16:05 **Data-driven alternatives to MAF – a case study of
plant protection products**

- Establishment of triggers for higher tier in vitro testing
- Comparative testing of pesticides and plant protection products
- Derivation of toxicological threshold values for plant protection products

Denise Bloch, Federal Institute for Risk Assessment (BfR),
Germany

16:40 **End of the first day**

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Information available online at:
www.akademie-fresenius.com/3237

Tuesday, 13 June 2023

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Central European Summer Time [CEST](#).

 Morning Session | 09:30 – 12:00 CEST

09:30 **Brief address by the Chairs**

Stephanie Melching-Kollmuss, BASF/CropLife Europe
Working Group on Cumulative Risk Assessment, Germany
Martin Wilks, Swiss Centre for Applied Human Toxicology,
Switzerland

Scientific Reappraisal of Mixtures

09:45 **Scientific view on mixture assessment of chemicals:
A systematic review and quantitative reappraisal of ten
years of mixture studies**

Olwenn Martin, University College London, United Kingdom

Ecotoxicological Risk Assessment of Chemical Mixtures

10:20 **Member State view: Ecotoxicological risk assessment
of mixtures in plant protection products**

- Past, present, future
- From single formulation to landscape issues

Mathilde Zorn, Board for the Authorisation of Plant Protection
Products and Biocides (Ctgb), The Netherlands

10:55 **Industry view on ecotoxicological risk assessment
of chemical mixtures**

Arnd Weyers, Bayer Crop Science, Germany

12:00 **Lunch break**

 Afternoon Session | 12:45 – 14:00 CEST

12:45 **EFSA's standard approach on mixtures for aquatic
Organisms: A component-based risk assessments and the use
of the RQmix approach (RQ = PEC/RAC) as a better alternative**

- Review of the EFSA assessment scheme for agrochemical
combination products for aquatic organisms
- Significance of product data for the evaluation of risk for
mixtures and the definition of formulation endpoints
- Proposal of an efficient and meaningful assessment scheme
and the interpretation of data for the formulated product

Gero Eck, Exponent International, Switzerland

13:20 **Environmental risk of chemical mixtures – relevance
and current approaches in retrospective and prospective
risk assessment**

- Concepts
- Mixture risk in surface waters (chemical and biological
monitoring)
- Approaches in prospective risk assessment (MCR, MAF)

Marion Junghans, Centre Ecotox, Switzerland

14:00 **End of the conference**

How will this online conference work?

Our online conference will be live – with interactive participation – and will be held in the English language. Prior to the conference, we will provide you with your login details which will allow you to participate and ask questions from your preferred location. All you need is a stable internet connection and an audio hardware system – and away you go!

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Information available online at:
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Registration

By web www.akademie-fresenius.com/3237
By email registration@akademie-fresenius.com

Participation Fee: € 1,195.00 plus VAT

Representatives of an authority or a public university are eligible for a reduced fee of € 695.00 plus VAT per person (please provide evidence). The reduced fee cannot be combined with other rebates.

If you are unable to attend, you can order the event documentation for € 295.00 plus VAT.

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The Organisers

For more than 25 years, Akademie Fresenius has been your partner for practice-orientated training on all the latest topics surrounding the safety and quality of food, consumer goods and chemical products along the whole production chain. Our portfolio not only includes international conferences but also offers national trade meetings, intensive practical seminars and training in small work groups.

Our events are designed to promote an active exchange amongst our participants and offer the perfect platform for bringing the industry, the scientific sector, the authorities and the consulting field together. Excellent service, all-inclusive. Our wide-ranging advanced training opportunities contribute to giving our customers the competitive edge in all quality assurance, risk assessment, legal, production and technical questions.

Akademie Fresenius is a joint venture between Cognos, one of the largest private and independent education groups in Germany, and SGS Institut Fresenius, one of the leading German providers of chemical laboratory analysis.

You can find details on upcoming and new events at www.akademie-fresenius.com

Who should attend this conference?

Professionals working in the field of

- ✓ Ecotoxicology
- ✓ Toxicology
- ✓ Hazard, exposure and risk assessment for human health and the environment
- ✓ Modelling
- ✓ Regulatory affairs
- ✓ Registration and authorisation
- ✓ Scientific advisory
- ✓ Product safety

Sectors taking part:

- ✓ Agrochemical industry
- ✓ Biocidal product industry
- ✓ Chemical industry
- ✓ Research institutes
- ✓ Authorities
- ✓ Scientific consultancies in the area of toxicology
- ✓ Professional associations
- ✓ NGOs

Terms of Participation and Purchase: The registration fee includes the participation in the online event and the event documentation for download. You will receive written confirmation of your registration. Upon receiving our invoice, please transfer the amount due without further deductions before the event begins.

Group Reductions: For joint bookings received from one company we grant a 15% discount from the third participant onwards.

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