



13th International Akademie Fresenius Conference

Pesticide Residues in Food

+++ ONLINE CONFERENCE +++

1 and 2 July 2025

Highlights

- Update from DG SANTE on MRLs and the draft Sampling Regulation
- Managing the scope challenge in pesticide residue monitoring
- Netherlands Food and Consumer Product Safety Authority on MRL compliance testing
- Monitoring of pesticide residues in South Africa
- Pesticide residues in honey and fish
- Effects of pesticide residues on insects farmed for food and feed
- Processing factors: a food control and inspection office's perspective
- Multiple-source substances in organic products and baby food
- Challenges for analytical methods: enantiomers, esters and conjugates
- Advances in miniaturisation: QuEChERS method and Microflow LC Chromatography Mass Spectrometry
- Experience with miniaturisation in the plant protection industry

Come along for key updates
and to meet your peers!



The Experts

Ivan Aloisi Wageningen Food Safety Research (WFSR) | **Michelangelo Anastassiades** EURL-SRM, CVUA Stuttgart | **Paul Bontenbal** Netherlands Food and Consumer Product Safety Authority (NVWA) | **Monika Bross** BASF | **Laura Carbonell Rozas** University of Granada | **Norbert Fuchsbauer** HiPP | **Paul Garrigue** SGS Crop Science | **Friederike Habedank** State Office for Agriculture, Food Safety and Fisheries Mecklenburg-Western Pomerania | **Florencia Jesús** EURL-FV, University of Almería | **Piroska Kiss** European Commission | **Nathan Meijer** Wageningen Food Safety Research (WFSR) | **Hans Mol** Wageningen Food Safety Research (WFSR) | **Susanne Müller-Bomke** Bayer | **Anja Muzyka** EURL-AO, CVUA Freiburg | **Sarah Obermeier** EURL-AO, CVUA Freiburg | **Richard Pehn** Austrian Agency for Health and Food Safety (AGES) | **Amadeo Rodríguez Fernández-Alba** EURL-FV, University of Almería | **Ann-Kathrin Schäfer** EURL-SRM, CVUA Stuttgart | **Hlabana Alfred Seepe** South African Department of Agriculture, Land Reform and Rural Development (DALRRD) | **Christian Spangler** BASF

Tuesday, 1 July 2025

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

Morning Session | 09:30 – 13:00 CEST

09:30 Welcoming speech by the organisers and the Chairs

Monika Bross, BASF, Germany

Hans Mol, Wageningen Food Safety Research (WFSR),
The Netherlands

Christian Spangler, BASF, Germany

The presentation slots include sufficient time for questions and answers.

09:40 **Developments on pesticides residues – update from DG SANTE**

- Update on MRLs
- Draft Sampling Regulation on pesticide residues in food and feed
- 2023 European Union report on pesticide residues in food

Piroska Kiss, European Commission, Belgium

Monitoring: Programmes and Challenges

10:10 **The scope challenge in pesticide residue monitoring**

- Pesticides, we can('t) cover all?!
- How to prioritise our scope?
- Decide and measure or measure and decide?

Hans Mol, Wageningen Food Safety Research (WFSR), The Netherlands

10:45 **Coffee break**

11:20 **Monitoring of pesticide residues in honey**

- Background information and aims of the project
- Method information and results
- Background information on certain substances

Anja Muzyka, European Union Reference Laboratory for Food of Animal Origin (EURL-AO), CVUA Freiburg, Germany

Ann-Kathrin Schäfer, European Union Reference Laboratory for Pesticides requiring Single Residue Methods (EURL-SRM), CVUA Stuttgart, Germany

12:00 **Assessment of pesticide residues in fish**

- Current legislation on the assessment of pesticides in fish
- Procedure for assessing pesticide residues in fish
- Monitoring results of Baden-Württemberg

Sarah Obermeier, European Union Reference Laboratory for Food of Animal Origin (EURL-AO), CVUA Freiburg, Germany

12:25 **Effects of pesticide residues on insects farmed for food and feed**

- Dietary exposure of farmed insects to pesticide residues in feed
- Carry-over to insect-based products and potential impact of default MRLs
- Potential synergistic effects of pesticide mixtures

Nathan Meijer, Wageningen Food Safety Research (WFSR), The Netherlands

13:00 **Lunch break**

Afternoon Session | 14:00 – 17:40 CEST

14:00 **Monitoring of pesticide residues in fruits and vegetables in South Africa: current endeavours, challenges and prospects**

- Registration of agricultural remedies and establishment of MRLs
- Overview of food safety regulations, key role players, and enforcement mechanisms
- Challenges in monitoring systems and handling complaints from importing countries
- The way forward

Hlabana Alfred Seepe, Department of Agriculture, Land Reform and Rural Development (DALRRD), South Africa

14:35 **MRL compliance testing: surveillance and enforcement**

- Surveillance: risk-based approach
- Interpretation of pesticide residue data
- Enforcement: sanctions and possibilities

Paul Bontenbal, Netherlands Food and Consumer Product Safety Authority (NVWA), The Netherlands

15:10 **Coffee break**

15:40 **Multiple-source substances in organic products and baby food - occurrence and legal evaluation**

- Examples for multiple source substances in organic products and baby food
- Bromide – natural occurring mineral or indicator for the use of methyl-bromide?
- Regulatory challenges and possible solutions

Norbert Fuchsbauer, HiPP, Germany

16:15 **Processing factors update: perspective of a food control and inspection office**

- An ungrateful subject: Despite all efforts, legal validity is always questioned
- Overview and limitations of current legislation on processing factors
- Examples illustrating a practical approach to deriving processing factors

Friederike Habedank, State Office for Agriculture, Food Safety and Fisheries Mecklenburg-Western Pomerania, Germany

16:50 **Alkaline hydrolysis: 7 years of data**

- Explanation of the method used
- Overview of the collected data
- Analysis of the data and conclusion

Richard Pehn, Austrian Agency for Health and Food Safety (AGES), Austria

17:25 **Final discussion**

17:40 **End of the first day**

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Information available online at: www.akademie-fresenius.com/3888

Wednesday, 2 July 2025

 **Morning Session | 09:00 – 13:30 CEST**

09:00 Welcoming speech by the organisers and the Chairs

Monika Bross, BASF, Germany

Hans Mol, Wageningen Food Safety Research (WFSR),
The Netherlands

Christian Spangler, BASF, Germany

Developments in Analytical Methods and Tools

**09:10 Update on the analysis of pesticides entailing esters
and conjugates in their residue definition**

Michelangelo Anastassiades, EU Reference Laboratory for
Pesticides requiring Single Residue Methods (EURL-SRM),
CVUA Stuttgart, Germany

**09:45 Enantiomers as a challenge for residue analytical
methods**

- Difficulties to analyse enantiomers and framework requirement
- Application: study case

Paul Garrigue, SGS Crop Science, France

**10:20 Towards greener extraction in pesticide residue
analysis: the role of natural deep eutectic solvents (NADES)**

- NADES and their potential to support sustainable analytical practices and safer laboratory environments
- Tailor-made NADES to enhance extraction efficiency
- Versatile and simple multi-residue NADES-based solid-phase extraction (SLE)

Laura Carbonell Rozas, University of Granada, Spain

10:55 Coffee break

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Central European Summer Time CEST.

Spotlight: Advances in Miniaturisation

**11:30 Miniaturisation of the QuEChERS method in fruits
and vegetables without cryogenic milling**

- Up to 97% reduction of toxic solvents
- 30 times less expensive
- Excellent homogeneity without cryo-milling

Ivan Aloisi, Wageningen Food Safety Research (WFSR), The
Netherlands

**12:05 Advantages of Microflow LC Chromatography Mass
Spectrometry in pesticide residue analysis**

- Significant reduction of solvent consumption, increasing sustainability by minimising organic waste
- Improving sensitivity by coupling micro-flow LC to triple quadrupole analyser
- Simplifying the mass acquisition workflow by coupling micro-flow LC to Q-Orbitrap analyser

Amadeo Rodríguez Fernández-Alba and **Florencia Jesús**,
European Union Reference Laboratory for Pesticide Residues
in Fruits and Vegetables (EURL-FV), University of Almería, Spain

**12:40 Experience with miniaturisation from plant
protection industry**

- Representative sample material
- Miniaturisation
- Automatisation in residue analysis
- Sample preparation for plant matrices

Susanne Müller-Bomke, Bayer, Germany

13:15 Final discussion

13:30 End of the conference



This conference is recognised by the **German ZFL (Certification Body for Advanced Food Chemistry Training)** and offers 10.5 points. Don't miss this professional development opportunity!

 **Book now**



Information available online at: www.akademie-fresenius.com/3888

Registration

By web www.akademie-fresenius.com/3888
By email registration@akademie-fresenius.com

Participation Fee: € 995.00 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 the online event, you can order the event documentation for € 295.00 plus VAT. It will be available after the online event through the download area of our website where you will find the latest versions of the presentations as pdf files.

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Do you have any questions?



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The Organisers

For 30 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.

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

Who should attend this conference?

Professionals working in the fields of:

- ✓ Residue analysis and food chemistry
- ✓ Monitoring
- ✓ Quality assurance and control
- ✓ Food and consumer safety
- ✓ Legal and regulatory affairs
- ✓ Registration
- ✓ Research and development
- ✓ Raw material management

Sectors that should take part:

- ✓ Agrochemical industry
- ✓ Food and drink industry
- ✓ Competent authorities, regulatory bodies and research institutes
- ✓ Testing laboratories and contract research organisations (CROs)
- ✓ Consultancies
- ✓ Professional associations

Terms of Participation and Purchase: The registration fee includes the participation in the event, event documentation, and, in the case of on-site events, lunch, coffee breaks, beverages as well as the evening event. You will receive written confirmation of your registration. Upon receiving our invoice, please transfer the amount due without further deductions before the event begins. The price of the event documentation includes the login details for the secure download section of our webpage where you will find the presentations in a pdf format. The login details will be sent to you via email after the event.

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

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