



8<sup>th</sup> International Akademie Fresenius Conference

# Worker, Operator, Bystander and Resident Exposure and Risk Assessment

+++ HYBRID EDITION +++

11 and 12 February 2025  
in Dusseldorf/Germany

## Highlights

### EFSA OPEX Guidance and Calculator

- EU Member State experience
- Industry feedback

### Bystander and resident safety

- Drift exposure study for drone applications in soil, field, and orchard crops
- Exposure from unmanned aerial spraying in orchards
- French CAPRIV project results

### DFR, TC, DT50, and worker safety

- Method for dislodgeable foliar residues (DFR) in vineyards
- DFR method for re-entry in hops
- In-silico DFR prediction and regulatory impact

### Ongoing activities outside Europe

- Brazilian pesticide risk assessment update
- ProHuma's occupational exposure projects

### Operator safety

- ICPPE 2024 Symposium outcomes and Risk Assessment Tool update
- Bystander/resident spray drift exposure data update
- Comparison of drift reduction with different nozzles and equipment

### Dermal absorption in PPP

- New ICPPE approach for dose-based dermal absorption prediction in pesticide risk assessment



## The Experts

**Despina Bournele** Benaki Phytopathological Institut | **Emily Bryson** California Department of Pesticide Regulation (DPR) | **Neil A. Byron** Exponent | **Agathi Charistou** Benaki Phytopathological Institut | **Edward Chikwana** Corteva Agriscience | **Fabiana Cremaschi Palma** Instituto ProHuma de Estudos Científicos | **Jean-Paul Douzals** National Research Institute for Agriculture, Food and Environment (INRAE) | **Simon Euringer** Bavarian State Institution for Agriculture (LFL) | **Edgars Felkers** Bayer Crop Science Division | **Gunnar Fent** German State Education and Research Center of Viticulture, Horticulture and Rural Development (DLR) | **Felix M. Kluxen** BASF | **Sebastian König** Swiss Federal Food Safety and Veterinary Office | **Alistair Morriss** Corteva Agriscience | **Enrico Peter** German Federal Institute for Risk Assessment (BfR) | **Piotr Ogródowczyk** European Commission | **Anugrah Shaw** University of Maryland Eastern Shore | **Adriana Torres de Sousa Pottier** Brazilian National Health Regulatory Agency (ANVISA) | **Jens Karl Wegener** Julius Kühn-Institute (JKI) – German Federal Research Centre for Cultivated Plants | **Christiane Wiemann** BASF

# Tuesday, 11 February 2025

## Morning Session 09:50 – 13:55 CET

09:20 On-site registration & opening of the virtual meeting room

09:50 Welcoming speech by the organisers and the Chair  
Alistair Morriss, Corteva Agriscience, UK

The presentation slots include sufficient time for questions and answers.

## Considerations of risk mitigation measures

10:00 Risk mitigation measures and conditions of use that reduce the risk in humans (workers, operators, bystanders and residents)

Piotr Ogrodowczyk, European Commission, Belgium (virtual presence)

## EFSA OPEX Guidance/Calculator

10:30 EU Member State experience with the implementation of the EFSA OPEX Guidance and Calculator

Agathi Charistou, Benaki Phytopathological Institute, Greece  
Despina Bournele, Benaki Phytopathological Institute, Greece

11:05 Industry perspective on the implementation of the EFSA OPEX Guidance and Calculator

- Industry's effort to create an offline calculator to address end-user needs
- Guidance and calculator updates – an uncertain road ahead

Edgars Felkers, Bayer Crop Science Division, Germany and CropLife Europe, Belgium

## Bystander and resident safety

11:40 Environmental, bystander and resident exposure from orchard applications using an unmanned aerial spraying system

- Field trials to quantify horizontal and vertical drift as well as direct bystander/resident exposure
- Comparison of the results with EU and US regulatory reference datasets for ground and aerial applications

Sebastian König, Federal Food Safety and Veterinary Office (FSVO), Switzerland

12:15 Coffee break

12:45 Results of the French project CAPRIV "Concilier l'application des PPP et la protection des riverains"

- Reconciling the use of PPPs and the protection of residents

Jean-Paul Douzals, National Research Institute for Agriculture, Food and Environment (INRAE), France

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

13:20 Exposure study comparing drift exposure to bystanders at different distances during soil, field crop and orchard crop drone application

- Results and comparison to current exposure model predictions for conventional sprayers
- Differences in exposure risks between drone and conventional application methods

Christiane Wiemann, BASF, Austria

13:55 Lunch break

## Afternoon Session 15:00 – 17:50 CET

## Ongoing activities outside Europe

15:00 Update on the Brazilian perspective on pesticide occupational risk assessment

Adriana Torres de Sousa Pottier, Brazilian Health Regulatory Agency (ANVISA), Brazil

15:35 ProHuma's technical projects to support the occupational exposure risk assessment

Fabiana Cremaschi Palma, Instituto ProHuma de Estudos Científicos, Brazil

16:10 Coffee break

16:40 California DPR's emerging application technologies efforts

- Study to quantify occupational exposure to crews applying pesticides by drone
- DPR's Emerging Technologies Workgroup

Emily Bryson, California Department of Pesticide Regulation (DPR), USA (virtual presence)

## Dermal absorption of active substances in PPP

17:15 Non-dietary risk assessment of pesticides using dose-based dermal absorption prediction – a new conceptual approach from the ICPPE initiative

- How absorption studies or models can incorporate dose into dermal absorption predictions for pesticide exposure
- Focusing shifts from concentration to exposure doses, aligning US and EU approaches

Felix M. Kluxen, BASF, Germany

17:50 End of the first conference day

19:00 Joint evening event



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# Wednesday, 12 February 2025

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## Morning Session 10:00 – 14:10 CET

**10:00 Welcoming address and opening remarks by the Chair**  
Neil A. Byron, Exponent, UK

### DFR, TC, DT50 and worker safety

**10:10 Experimental determination of DFR (Dislodgeable Foliar Residues) of copper applied in viticulture at different rates and spraying intervals**

Gunnar Fent, State Education and Research Center of Viticulture, Horticulture and Rural Development (DLR-Rheinpfalz), Germany

**10:45 Development of a method to determine dislodgeable foliar residues (DFR) for re-entry in hops**

Simon Euringer, Bavarian State Institution for Agriculture LFL, Germany

**11:20 Coffee break**

**11:50 In-silico prediction of dislodgeable foliar residues (DFR) and regulatory implications for plant protection products**

- Default DFR values
- Machine learning model
- Predicted DFR values
- Expanded dataset

Edward Chikwana, Corteva Agriscience, USA

## Operator safety

**12:25 Update on field data for exposure of bystanders/residents towards spray drift during application of PPP in orchards**

Enrico Peter, German Federal Institute for Risk Assessment (BfR), Germany

**13:00 User protection and technological innovations in plant protection**

Jens Karl Wegener, Julius Kühn-Institute (JKI) – Federal Research Centre for Cultivated Plants, Germany

**13:35 ICPPE Initiative: An update of the ICPPE Risk Assessment and Mitigation Tool and highlights of the 2024 International Symposium on Operator Safety**

- Update on the ICPPE activities, including overview of the sessions on risk assessment, mitigation and labeling at the 2024 International Symposium on Operator Safety held in Brazil
- Demonstration of the ICPPE tool
- Pilot testing and inclusion in the FAO Pesticide Registration Toolkit

Anugrah Shaw, University of Maryland Eastern Shore, USA

**14:10 Lunch and end of the conference**

3<sup>rd</sup> International Online Conference

### Genotoxic Compounds

13 and 14 February 2025

[www.akademie-fresenius.com/3643](http://www.akademie-fresenius.com/3643)

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International Online Training

### A Practical Guide for Fertilisers and Plant Biostimulants

13 and 14 March 2025

[www.akademie-fresenius.com/3660](http://www.akademie-fresenius.com/3660)

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By email [registration@akademie-fresenius.com](mailto:registration@akademie-fresenius.com)

## Participation Fee:

**€ 1,995.00 plus VAT** on-site in Dusseldorf

Representatives of an authority or a public university are eligible for a reduced fee of **€ 895.00 plus VAT** per person (please provide evidence). The reduced fee cannot be combined with other rebates.

**€ 1,195.00 plus VAT** Live Stream

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.

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## Do you have any questions?



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## Who should attend this conference?

Professionals of the following sectors:

- Agrochemical industry
- Research institutes
- Authorities (agricultural inspection offices, registration and control authorities)
- Professional associations
- Contract laboratories

## Conference Venue

**Novotel Düsseldorf City West**  
Niederkaßeler Lohweg 179  
40547 Düsseldorf  
Phone : +49 211 52060-0  
Email: [h3279@accor.com](mailto:h3279@accor.com)  
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