



Online Training

# Genetic Toxicology within the Framework of the Plant Protection Regulation

14 October 2025, Online 

This training is aiming to give you the basic knowledge on genetic toxicology within the framework of Regulation 1107/2009, with an overview of assay conduct, data generation and evaluation. This will be delivered virtually in a compact format of an intensive morning and afternoon session with the opportunity to ask questions.

## Learning Outcomes

- Learn all about regulatory approved genotoxicity tests
- Learn the relevance of historical control data
- Learn different types of DNA damage and get an overview on DNA repair
- Learn about gene mutation and chromosomal damage, data generation and evaluation
- Learn how to use in vivo mammalian genotoxicity follow-on approaches



## Morning Session | 10:00 – 12:15

Welcome address and introduction

### Overview of genotoxic damage and data generation in the context of Regulation 1107/2009

- Types of DNA damage and an overview of DNA repair
- Overview of the regulatory approved genotoxicity tests available in the context of Regulation 1107/2009, guidance on groundwater metabolites and guidance on the establishment of the residue definition
- Relevance of historical control data to aid assay acceptability and data interpretation

### In vitro bacterial and mammalian gene mutation damage, data generation and evaluation

- Bacterial (reverse) gene mutation assay overview and data interpretation
- Mammalian (forward [tk / hprt]) gene mutation assay overview and data interpretation

## Participation Fee

€ 645.00 plus VAT

## Afternoon Session | 13:15 – 15:15

### In vitro mammalian structural and numerical chromosomal damage, data generation and evaluation

- Mammalian micronucleus assay overview and data interpretation
- Why the mammalian chromosomal aberration assay does not address aneugenicity

### In vivo mammalian genotoxicity follow-on approaches

- Rodent bone marrow micronucleus assay overview and data interpretation
- Rodent comet and transgenic assay overview and data interpretation, and which one to use

Questions and answers

End of the training

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

## The Expert

Damian Bowen, ERM

# Registration

By web [www.akademie-fresenius.com/3804](http://www.akademie-fresenius.com/3804)  
By email [registration@akademie-fresenius.com](mailto:registration@akademie-fresenius.com)

## Participation Fee: € 645.00 plus VAT

Representatives of an authority or a public university are eligible for a reduced fee of € 495.00 plus VAT per person (please provide evidence). The reduced fee cannot be combined with other rebates.

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[www.akademie-fresenius.com/3804](http://www.akademie-fresenius.com/3804)

→ [Book now](#)

## 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.

Akademie Fresenius is a joint venture between Carl Remigius Fresenius Education Group, 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](http://www.akademie-fresenius.com)

## Who will benefit from this training?

### Professionals in the fields of:

- ✓ Toxicology
- ✓ Ecotoxicology
- ✓ Exposure assessment
- ✓ Risk assessment
- ✓ Registration
- ✓ Regulatory & government affairs
- ✓ Monitoring & computer modelling

### Sectors that should take part:

- ✓ Agrochemical industry
- ✓ Professional associations
- ✓ Consultancies

## How will this online training work?

Our online training will be live – with interactive participation – and will be held in the English language. Prior to the training, 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!

**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.

**Terms of Cancellation:** Cancellations or rebookings to another event are possible in writing without giving reasons and free of charge up to one week before the start of the online event. In the event of later cancellations or non-login to the online event, no participation fees can be refunded. In this case, however, you will receive access to the documentation download after the event. Please note that you can name a substitute participant free of charge at any time.

**General Terms and Conditions:** By registering, you agree to our General Terms and

Conditions as well as to our Privacy Policy. You can find our GTC on the internet ([www.akademie-fresenius.com/general-terms](http://www.akademie-fresenius.com/general-terms)) or receive them on request.

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