

# International Workshop on Risk Assessment of Combined Exposure to Multiple Chemicals

Welcome

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### EFSA is





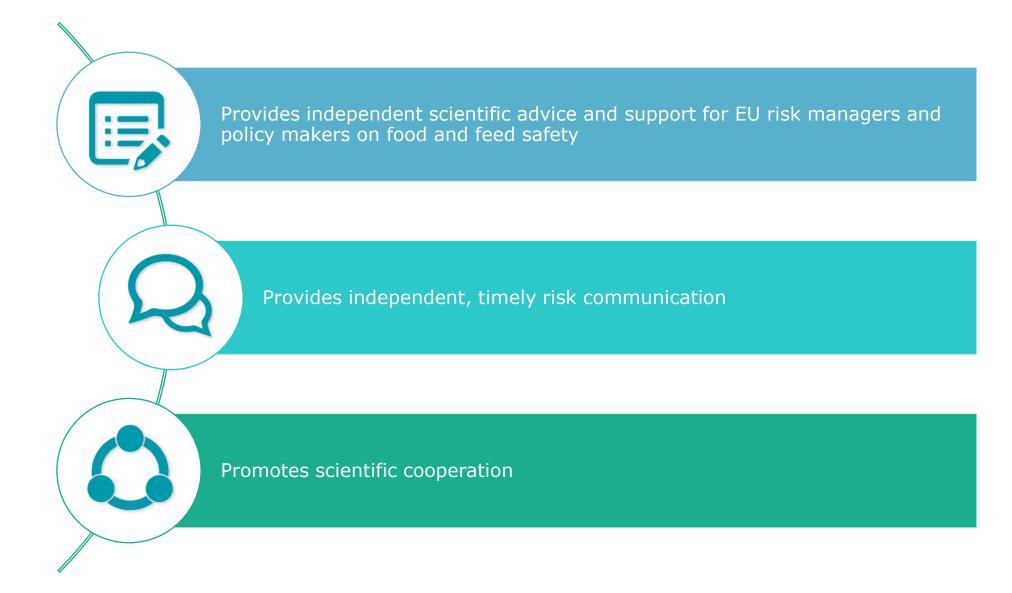
The reference body for risk assessment of food and feed in the European Union. Its work covers the entire food chain – from field to fork



One of the number of bodies that are responsible for food safety in Europe

### What EFSA does





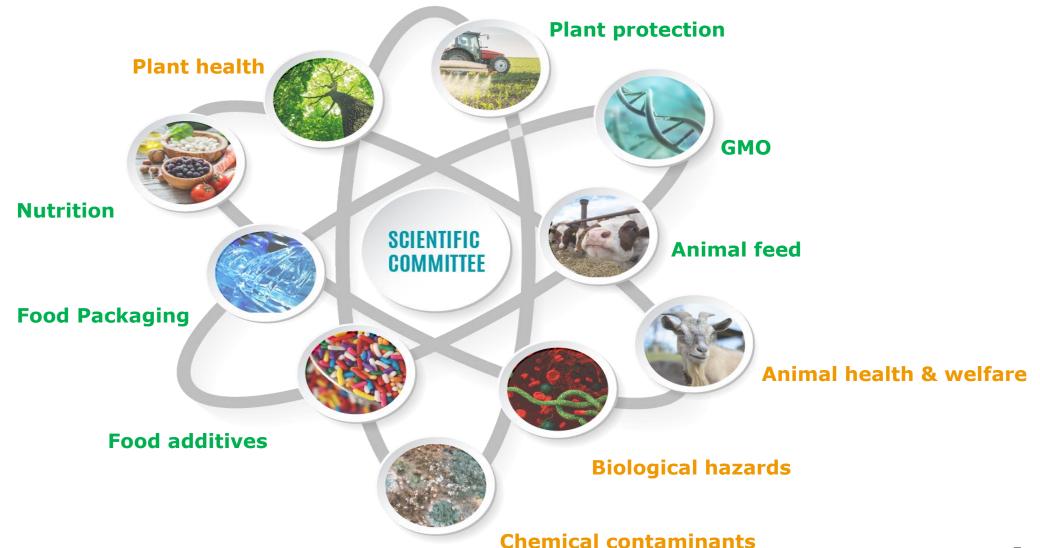
# What EFSA does **not** do





# EFSA's Role: Provide scientific advice from farm to fork





## The Journey: EFSA Colloquium 2014



SCIENTIFIC COLLOQUIUM SERIES



APPROVED: 25 March 2015

PUBLISHED: 31 March 2015

### Discussions on harmonised methods for human, animal and ecological RA mixtures

#### **Summary Report**

#### **EFSA Scientific Colloquium 21**

Harmonisation of human and ecological risk assessment of combined exposure to multiple chemicals

> 11-12 September 2014 Edinburgh, UK

**European Food Safety Authority** 

- Hazard Assessment
- Exposure assessment
- New Methods and models (in vitro, in silico, OMICs)
- Current data gaps and future research needs
- Basis for MIXTOX Guidance Document (2016-2019)

# MIXTOX Guidance Document (2019)





#### **GUIDANCE**

ADOPTED: 20 February 2019 doi: 10.2903/j.efsa.2019.5634

# Guidance on harmonised methodologies for human health, animal health and ecological risk assessment of combined exposure to multiple chemicals

EFSA Scientific Committee,
Simon John More, Vasileios Bampidis, Diane Benford, Susanne Hougaard Bennekou,
Claude Bragard, Thorhallur Ingi Halldorsson, Antonio F Hernández-Jerez,
Konstantinos Koutsoumanis, Hanspeter Naegeli, Josef R Schlatter, Vittorio Silano,
Søren Saxmose Nielsen, Dieter Schrenk, Dominique Turck, Maged Younes, Emilio Benfenati,
Laurence Castle, Nina Cedergreen, Anthony Hardy, Ryszard Laskowski, Jean Charles Leblanc,
Andreas Kortenkamp, Ad Ragas, Leo Posthuma, Claus Svendsen, Roland Solecki,
Emanuela Testai, Bruno Dujardin, George EN Kass, Paola Manini, Maryam Zare Jeddi,
Jean-Lou CM Dorne and Christer Hoostrand

#### Harmonised Guidance

- Whole Mixture approach
- Component-based approach
- Include interactions
- Problem Formulation
- Exposure and Hazard Assessment
- Risk Characterisation

### Reporting Table

- Human Health, Animal Health
- Environment

# MIXTOX 2 Guidance Document (2021)





Draft Guidance Document on Scientific criteria for grouping chemicals into assessment groups for human risk assessment of combined exposure to multiple chemicals

EFSA Scientific Committee, Simon John More, Vasileios Bampidis, Diane Benford, Claude Bragard, Antonio Hernandez-Jerez, Susanne Hougaard Bennekou, Thorhallur Ingi Halldorsson, Konstantinos Panagiotis Koutsoumanis, Kyriaki Machera, Hanspeter Naegeli, Søren Saxmose Nielsen, Josef Rudolf Schlatter, Dieter Schrenk, Vittorio Silano, Dominique Turck, Maged Younes, Emilio Benfenati, Amélie Crépet, Jan Dirk Te Biesebeek, Emanuela Testai, Bruno Dujardin, Jean Lou C M Dorne, Christer Hogstrand

### Scientific criteria for grouping

- Hazard-based criteria
- Prioritisation methods
- Recommendations

### International Workshop

- Planned for 2020 to discuss guidance
- Delayed because of COVID-19 pandemic

### Public Consultation (May-July 2021)

 Workshop: opportunity to discuss Guidance document and future challenges











Thank you for sharing your expertise, and Wishing you a fruitful and open debate!

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