

## ABOUT THE TASK FORCE

As consumers are often exposed to naturally occurring contaminants and process-related compounds in their diets, it is crucial to investigate how these compounds are formed in order to improve how we detect and measure them and to assess their safety.

The task force aims to advance the scientific knowledge relating to such substances, particularly focusing on assessing their impact on human health. Key topics include consideration of toxicity, exposure, mitigation impact and analytical aspects.



## WHAT'S NEW?

### NEW PUBLICATION

highlighting physical, chemical and biological processes which can lower or eliminate specific mycotoxins. Published in *Mycotoxin Research*.

### WEBINAR

The results of the activity on 'Reactions and Potential Mitigation of Mycotoxins during Food Processing' were introduced during a webinar co-organised with IAFP in November 2016. It can be accessed online at [www.ils.eu](http://www.ils.eu).

## ACTIVITIES

### Reactions and Potential Mitigation of Mycotoxins during Food Processing

Mycotoxins are toxic, secondary metabolites produced by fungi that significantly affect the quality, safety and yield of important crops used worldwide for food and feed. The activity reviewed options to optimise or introduce additional food processing in order to reduce mycotoxin

contamination of food and feed. The final goal was to minimise food and feed losses while maximising the safe use of crops. A follow up activity aiming to provide practical guidance for industry in order to mitigate mycotoxin in foods is now being set up.

### New Approaches to Exposure Assessment of Process Related Contaminants in Food by Biomarker Monitoring

The development of new approaches for assessing human exposure to chemical contaminants increasingly rely on biomarker monitoring in easily accessible body fluids such as urine, saliva or blood. The advent of methodologies to monitor biomarkers of diet-related exposure to process-related compounds is expected to allow for a significant step forward in risk assessment, as

well as supporting decision-making and prioritisation for risk mitigation. The aim of this activity is to provide guidance on the development and application of biomarkers to assess exposure to process-related compounds in the food chain. It is intended to provide researchers working in the biomarker field with tools on how to design studies and validate biomarkers.

## MEMBER COMPANIES

- Abbott Nutrition
- ADM
- Barilla G&R Fratelli
- Cargill
- General Mills
- Kao Corporation
- Luigi Lavazza
- Mars Chocolate
- Mondelēz Europe
- Nestlé
- PepsiCo International
- Premier Foods
- Südzucker Group
- Unilever

## ACTIVITIES

### Potential Upcoming Activity

The task force is currently developing a New Activity Proposal on 'Mineral Oils'. It may deal with how mineral oils

enter the food chain, how they could be characterised and what are their impact on human health.

## RECENT PUBLICATIONS

P. Karlovsky, M. Suman, F. Berthiller, J. De Meester, G. Eisenbrand, I. Perrin, I. P. Oswald, G. Speijers, A. Chiodini, T. Recker, P. Dussort. **Impact of Food Processing and Detoxification Treatments on Mycotoxin Contamination.** *Mycotoxin Research* 2016;32(4):179-205.

H.J. (Ine) van der Fels-Klerx, S. G. Edwards, M. C. Kennedy, S. O'Hagan, C. O'Mahony, G. Scholz, P. Steinberg, A. Chiodini. **A Framework to Determine the Effectiveness of Dietary Exposure Mitigation to Chemical Contaminants.** *Food and Chemical Toxicology* 2014;74:360-371.

B.D. Craft, A. Chiodini, J. Garst and M. Granvogl. **Fatty Acid Esters of Monochloropropanediol (MCPD) and Glycidol in Refined Edible Oils.** *Food Additives and Contaminants* 2013;30(1):46-51.

C. Crews, M. Granvogl, C. Hamlet, K. Hrnčirk, J. Kuhlmann, A. Lampen, G. Scholz, R. Weisshaar, T. Wenzl, P.R. Jasti and W. Seefelder. **Analytical Approaches for MCPD Esters and Glycidyl Esters in Food and Biological Samples – A Review and Future Perspectives.** *Food Additives and Contaminants* 2013;30(1):11-45.

F. Berthiller, C. Crews, C. Dall'Asta, S. De Saeger, G. Haesaert, P. Karlovsky, I.P. Oswald, W. Seefelder, G. Speijers and J. Stroka. **Masked Mycotoxins: A Review.** *Molecular Nutrition and Food Research* 2013; 57(1):165-186.

**All publications available on our website: [www.ilsieurope.eu](http://www.ilsieurope.eu). For more information on ILSI Europe's activities, don't forget to follow us on Twitter @ILSI\_Europe and connect with us on LinkedIn.**

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