

# New Approaches to Chemical Risk Assessment for Food & Food Ingredients Task Force

## ABOUT THE TASK FORCE

New tools in the assessment of toxicity focus on developing a better mechanistic understanding of the biological interactions and pathways involved, through the application of cellular and molecular based methods, combined with computational approaches. This task force investigates how these new approaches may have applications in risk assessment that are relevant to the development of safe food and food ingredients.



## WHAT'S NEW?

### EVENT

The task force has applied for a joint workshop at EuroTox2018 with the Alternatives for Animal Testing in Food Safety, Nutrition and Efficacy Testing Task Force and ILSI HESI.

### SCIENTIFIC SESSION

The task force organised a session on '**New Approaches to Chemical Risk Assessment**' at the IAFP European Symposium on Food Safety 2016 (13-15 May 2016, Athens, Greece).

## ACTIVITIES

### Exploitation of ToxCast Data on Food Chemicals for Safety Risk Assessment

A high throughput screening programme of chemicals for potential toxicity (ToxCast) was performed by the Environmental Protection Agency (EPA). The ToxCast Expert Group aims to exploit the data relevant to the food industry from the ToxCast programme and assess the utility of the data and methods for their use in the safety risk assessment of food chemicals. The intention is to build on earlier work commissioned by ILSI North America in which

approximately 800 food relevant chemicals within the ToxCast programme were identified through conducting approximately 860 *in vitro* biological assays / endpoints. This activity will draw conclusions from the chemical structure of food-relevant compounds to assess their safety for human consumption and handling. An Adverse Outcome Pathway (AOP) may be developed based on these conclusions.

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## MEMBER COMPANIES

- Danone
- DSM
- Firmenich
- Mars Chocolate
- Mayr-Melnhof Karton
- Nestlé
- Unilever

## RECENT PUBLICATIONS

B.J. Blaauboer, A.R. Boobis, B. Bradford, A. Cockburn, A. Constable, M. Daneshian, G. Edwards, J.A. Garthoff, B. Jeffery, C. Krul, J. Schuermans. **Considering New Methodologies in Strategies for Safety Assessment of Foods and Food Ingredients.** *Food and Chemical Toxicology* 2016; doi:10.1016/j.fct.2016.02.019.

All publications commissioned by this task force are available on our website: [www.ils.eu](http://www.ils.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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