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Press Release

From exposomics to phytotoxins: Safe foodstuffs in the focus of analytica 2018

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What substances occurring naturally in foodstuffs jeopardize our health? How do pollutants affect our genetic material? Is baking paper a cause for concern? Such questions from the food sciences will be in the focus of the leading trade fair analytica and the accompanying analytica conference, taking place on the grounds of Messe München from April 10 to 13.

An unhealthy diet, too many pollutants, too little exercise and excessive stress can trigger a wide variety of disorders. The underlying mechanisms are now being elucidated by researchers using high-tech analyzers, as shown at analytica 2018. This still-young discipline is called exposomics and deals with the effects of all measurable environmental influences on our genetic material and our metabolism. At the analytica conference, Dr. med. Benedikt Warth, assistant professor at the University of Vienna, will talk about exposomics, with special attention to foodstuffs. In his presentation on April 10 at 16:30 o'clock, he will describe, among other things, how hormone-like substances from food influence the treatment of breast cancer. The session "Modern Analytical Approaches for Emerging Contaminants in Foods", into which his lecture is integrated, also highlights other foodborne pollutants that have received too little attention so far.

Climate change affects food safety

The European Food Safety Authority, for example, warns that climate changes in terms of increased temperatures and altered precipitation patterns promote infestation with molds that produce dangerous mycotoxins, especially in corn and other cereals. Not to be underestimated either are alkaloids, which many plants use to protect themselves against herbivores, and whose consumption

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can lead to organ damage or even death. Dr. Jean-François Picron from the Scientific Institute of Public Health in Brussels will present an examination of 1,200 Belgian food samples for pyrrolizidine alkaloids at the analytica conference on April 10 at 16:00 o'clock.

Per- and polyfluorinated alkyl substances, abbreviated PFAS, which are used, inter alia, in sandwich paper and baking paper, are also attracting more and more attention. The analytica conference will address PFAS on April 11 from 12:30 to 14:30 o'clock. At 13:30 o'clock, Dr. Martin Schlummer from the Fraunhofer Institute for Process Engineering and Packaging will discuss PFAS in food packagings.

Focus on food analysis

While the main focus of the analytica conference is on scientific novelties, the trade fair provides comprehensive information on the technical state of analysis: Instruments for foodstuff testing are presented by Agilent Technologies, Bruker, Shimadzu, Waters and many other manufacturers. If you want to watch food analysts at work, visit the Live Lab in Hall A3: Here, for example, Thermo Fisher Scientific will examine foodstuffs for glyphosate, and Analytik Jena will use DNA analysis to expose food fraud. The analytica forums complete the program with exhibitor presentations on pesticide analysis, on detection of genetically modified organisms, and on many other subjects. In a nutshell: Such a well-founded overview of modern food analysis can be had only in Munich at the analytica.

More information on the topic of food fraud and food safety is available in the analytica trendreport on food analysis [here](#).

What is an experts' opinion on food fraud, food safety and the latest findings in analytical research on this topic? Watch the analytica Q&A session with Prof. Markus Fischer [here](#).



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About analytica

analytica is the international trade fair for laboratory technology, analysis and biotechnology and their users in research and industry. The trade fair is accompanied by the analytica conference, where the international scientific elite meets to discuss the latest topics that pertain to chemistry, biochemistry and laboratory medicine. A total of 35,002 visitors and 1,244 exhibitors took part in analytica in 2016. analytica has been held in Munich every two years since 1968. The next analytica takes place from April 10 to 13, 2018.

analytica worldwide

Messe München is the world's leading trade fair organizer for laboratory technology, analysis and biotechnology: Part of the analytica network are also the trade fairs analytica China, analytica Anacon India and India Lab Expo, analytica Vietnam and analytica Lab Africa.

Messe München

Messe München is one of the leading exhibition organizers worldwide with more than 50 of its own trade shows for capital goods, consumer goods and new technologies. Every year, a total of over 50,000 exhibitors and around three million visitors take part in more than 200 events at the exhibition center in Munich, at the ICM – Internationales Congress Center München and the MOC Veranstaltungszentrum München as well as abroad. Together with its subsidiary companies, Messe München organizes trade shows in China, India, Brazil, Russia, Turkey, South Africa, Nigeria, Vietnam and Iran. With a network of associated companies in Europe, Asia, Africa and South America as well as around 70 representations abroad for over 100 countries, Messe München has a global presence.