analytica conference 2020 for the first time virtual: New approaches in the fight against antibiotic resistance

Current questions and approaches in analysis are in the focus of the analytica conference, which will take place from October 19 to 23, 2020, in the context of analytica virtual in a purely digital manner. In 31 sessions, which will be broadcast repeatedly in order to enable participation in all time zones, leading experts will report on their respective fields of research in an application-oriented manner – among other things on new approaches to the analysis of antibiotic-resistant bacteria.

The scientific program of the analytica conference is organized by Forum Analytik, consisting of the German Chemical Society (Gesellschaft Deutscher Chemiker, GDCh), the Society for Biochemistry and Molecular Biology (Gesellschaft für Biochemie und Molekularbiologie, GBM) and the German Society for Clinical Chemistry and Laboratory Medicine (Deutsche Gesellschaft für Klinische Chemie und Laboratoriumsmedizin, DGKL). Anyone interested can participate in the virtual conference free of charge after prior registration.

Antibiotics help against infections caused by bacteria. However, the number of microbes that are resistant to certain classes of antibiotics is increasing – which often hampers therapy. If bacteria develop resistance to a plurality of antibiotics, they are referred to as multi-resistant. Humans and animals introduce germs and antibiotic-resistant bacteria into the environment, where they multiply.

Analysis of these bacteria is one of the great current challenges for modern medicine – and the paramount topic at the virtual analytica conference in the course of analytica 2020. New analytical methods allow the study of individual bacterial cells.

Notable experts in their fields provide an overview of the opportunities and limitations of established methods for the analysis of resistant pathogens. In addition, they present the latest technologies for the quantification and characterization of pathogens and antibiotic-resistant bacteria in an application-oriented manner.

Another hot subject is the “laboratory of the future”: The digital transformation of the chemical and pharmaceutical industry focuses on laboratories as drivers of innovation. Design-of-experiment (DoE) approaches and model-based simulations shorten development cycles and the time-to-market of new products. Real-time data from process development, manufacturing, application development and supply chain enables more sustainable management of product volume, resources and quality. In daily life, however, the existing infrastructures and obsolete production facilities of industry often hamper digitization. New approaches are required for the digital transformation to be optimally implemented in the “laboratory of the future”. In the course of the session “ABC: Digital Analytical Sciences”, experts will present approaches and examples of how laboratories can meet these new challenges.

Further sessions will address new insights concerning analysis methods in forensics and current developments in mass spectrometry and electroanalysis.
The analytica conference is supported by the journals Analytical and Bioanalytical Chemistry (ABC), of which the GDCh is a co-owner, and Microchimica Acta by Springer-Verlag and Analytical Science Advances by Wiley-VCH.

The analytica conference accompanies the 27th analytica, the world’s leading trade fair for laboratory technology, analysis and biotechnology, which this year takes place in a purely virtual manner as analytica virtual from October 19 to 23, 2020.

Anyone interested is welcome to visit analytica and the analytica conference after previous registration free of charge.

Further information on the analytica conference can be found on the website of analytica virtual at https://app.analytica-virtual.com/de/conference/

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