



The 2023 AOCs Annual Meeting & Expo is coming up, and you won't want to miss the analytical program!

Register today

### Message from the Chair

Dear Colleague,

We look forward to seeing you in person in Denver, Colorado, for the [2023 AOCs Annual Meeting & Expo!](#) Thank you to everyone who contributed to the technical program. The extra efforts of our session chairs, presenters, and volunteers are vital to the division's success.

We hope you will join us for the Analytical Division Technical Program Development Roundtable (Tuesday, May 2, 1:20-2:20 pm, room 107 ) at the 2023 Annual Meeting to generate topics for next year's program. This is also a great time to get to know the leadership team and find out how you can get involved in the division.

Best regards,

**Lisa Clement**  
[lisa\\_clement@cargill.com](mailto:lisa_clement@cargill.com)

---

### Analytical Division Officers

**Chair**  
Lisa Clement  
Cargill  
[lisa\\_clement@cargill.com](mailto:lisa_clement@cargill.com)

**Vice Chair**  
Giorgia Purcaro  
University of Liège  
[gpurcaro@uliege.be](mailto:gpurcaro@uliege.be)

**Secretary-Treasurer**  
Francesca Giuffrida  
Nestlé  
[francesca.giuffrida@rdls.nestle.com](mailto:francesca.giuffrida@rdls.nestle.com)



# 2023 AOCS Annual Meeting & Expo

## April 30–May 3

Colorado Convention Center, Denver, Colorado, USA

Network with new and familiar faces and discover the latest analytical research

Register today

### Analytical Technical Program

Enjoy 75+ hand-selected presentations that feature exciting developments in the analytical chemistry industry.

### Oral Presentation Highlights

**A novel UHPLC-MS/MS method with an automatic calculation software for regioisomeric analysis of triacylglycerols in natural oils and fats**

Presenter: Baoru Yang, University of Turku

**Potential of ion mobility spectrometry for more refined structural information in lipid analysis**

Presenter: Simon Hammann, Friedrich-alexander-Universität Erlangen-Nürnberg

**Toward methods for analysis of primary autoxidation in neural lipids: detection and characterization of autoxidation in neural lipids and their mitigation by bis-allylic deuterated HUFA**

Presenter: J. Thomas Brenna, University of Texas at Austin

**Advantages of microwave digestion for ICP trace metals analysis in oils**

Presenter: Larisa Tihomirov, Imerys Technology Center

**Food lipid analysis by GC-MS beyond fatty acid methyl esters**

Presenter: Simon Hammann, Friedrich-alexander-Universität Erlangen-Nürnberg



### Poster Presentation Highlights

### **Decolorization of seaweed extract by electrocoagulation**

Presenter: Winifred Akoetey, Carleton University

### **Impact of processing on concentrations of 3-MCPD esters and glycidyl esters in infant formulas**

Presenter: Jessica Beekman, US FDA

### **Lab-in-syringe-automated dispersive solid phase extraction using magnetite-functionalized HLB sorbent coupled online to HPLC for determination of surface water contaminants**

Presenter: Celestine Vubangsi Gemuh, Charles University

### **Square wave voltammetry monitoring of unsaturated fatty acids during thermal degradation**

Presenter: Matthew Phaner, University of Michigan

### **The investigation of ALA *trans* isomer profile in human plasma by silver ion HPLC in conjunction with GC-NCI-MS**

Presenter: Na Wei, Center For Disease Control

[Register today](#)

## **Network with Colleagues**

Make the most of your annual meeting experience by attending one of our networking events. Browse a few events of interest below.

### **Analytical Division Luncheon**

Monday, May 1 | 1 pm

The [2023 Herbert J. Dutton Award](#) winner will be recognized and will give a short presentation during this event. The Herbert J. Dutton Award of the AOCS Analytical Division recognizes an individual who has made significant contributions to the analysis of fats, oils, and related products.



### **AOCS Member and Volunteer Appreciation Luncheon**

Wednesday, May 3 | 1–2:25 pm

We appreciate you! All meeting attendees are welcome to enjoy complimentary food and fun as we recognize our volunteers. You will also have a chance to win prizes! Learn more about how to volunteer and get inspired by those who make a difference through volunteering with AOCS.

[Register now](#)

---

## Congratulations to the 2023 award winners from the analytical division!

### Meet 2023 Herbert J. Dutton Award winner, Hans-Gerd Janssen

Prof. Hans-Gerd Janssen obtained his M.Sc. in chemical engineering in 1987 and his Ph.D. in analytical chemistry in 1991, both from the Eindhoven University of Technology, Eindhoven, the Netherlands. After an academic career as an assistant and associate professor, he moved to Unilever R&D in 1999, where he is currently the science leader of food compositional analysis. From 2004 to 2019, he was a part-time professor at the University of Amsterdam. In 2019, he moved to Wageningen University, where he now holds a part-time professor position in “recognition-based analytical chemistry.”

[Read more.](#)



### Meet 2023 Analytical Division Student Excellence Award winner, Eda Kaya

Eda Ceren Kaya is a Ph.D. candidate and a graduate research assistant for the Food Science Institute at Kansas State University. She joined Dr. Umut Yucel's lab in January 2020. She is mainly working on a Ph.D. project named “characterization and utilization of sorghum and sorghum DDGS as value-added food applications” funded by the Seed Grant Program of Global Food Systems and supported by the United States Department of Agriculture (USDA) and NIFA (National Institute of Food and Agriculture).

[Read more.](#)



## Broaden your knowledge with the AOCS Continuing Education Program

## Statistical Design of Experiments Training

This two-hour course offers statistical design of experiments (DOE) training intended to provide a basic level of understanding of DOE concepts so that all parties will have a better idea of good design and analysis practices.

The training is on-demand to fit your busy schedule. On-demand access includes access to recordings, slides, and course materials for 30 days.

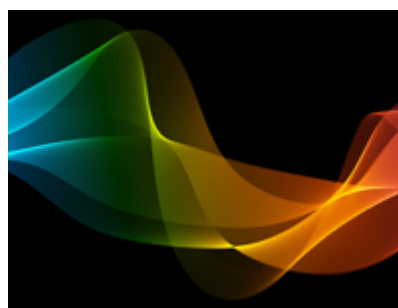


[Get on-demand access](#)

## Fundamentals of Spectroscopy in the Analysis of Fats and Oils

This online training course focuses on the value of spectroscopy in the analysis of fats and oils. This course demystifies the physics and science of common spectroscopic techniques, including Raman, Fourier transform infrared (FTIR), and near-infrared (NIR).

On-demand registration includes access to recordings, slides, and course materials for 30 days.



[Get on-demand access](#)

---

## AOCS membership benefits corner

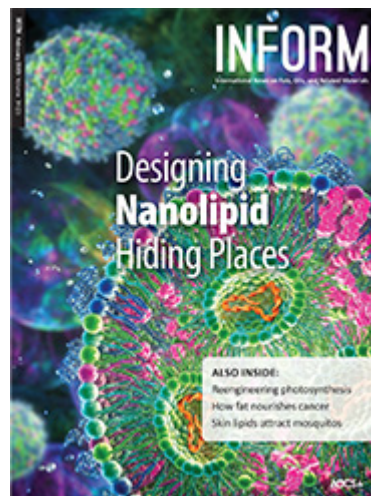
***Each year, enjoy 10 issues of INFORM — the official member magazine of AOCS.***

***INFORM*** magazine

## Researchers propose regulations for engineered crops

As the landscape of engineered crops continues to change and advance, scientists are calling out the need to reevaluate the approach to regulations around genetically engineered crops. Regulations vary between countries and differ in how safety testing is done. There is a reframing of traditional testing to a more “omics” approach to understanding changes in engineered crops.

[Read the article.](#)



---

***Broaden your knowledge with full access to AOCS's four peer-reviewed journals.***

## ***Journal of the American Oil Chemists' Society (JAOCS)***

### Fast chromatography of pulse triglycerides

**Authors:** DeMichael D. Winfield, Bryan R. Moser

Pulses are widely consumed throughout the world, but there still needs to be more in the investigation of the compositional analysis. This method proposes a fast, high throughput screening method in addition to a longer 2D LC version to provide a complete look at the triglyceride composition of pulses.

[Read the article.](#)

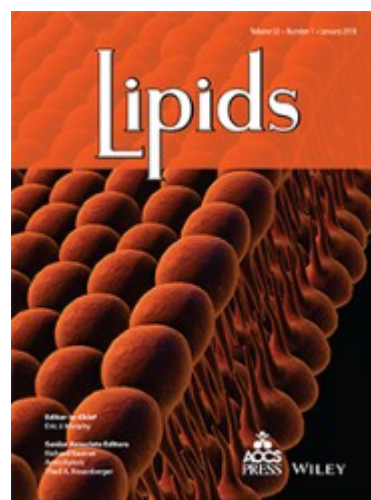


## ***Lipids***

### GC-MS analysis of oxysterols and their formation in cultivated liver cells (HepG2)

“Oxysterols play a key role in many (patho)physiological processes, and they are potential biomarkers for oxidative stress in several diseases. Here we developed a rapid gas chromatographic-mass spectrometry-based method for the separation and quantification of 11 biologically relevant oxysterols bearing hydroxy, epoxy, and dihydroxy groups.”

[Read the article.](#)



---

***AOCS Webinars are your opportunity to connect with researchers, industry experts, and thought leaders from across the globe. Invest an hour of your day and be inspired. AOCS members have exclusive access to the [AOCS Member Webinar Library](#) to watch past webinars.***

## **AOCS Webinars**

### **Past Webinar of Interest**

#### **Lipidomics Minimal Reporting Checklist**

**Presenter:** Dr. Kim Ekroos, President, International Lipidomics Society, Finland

This webinar is brought to you by the [Analytical Division](#) of AOCS.

The Lipidomics Minimal Reporting Checklist summarizes key details of all steps of lipidomic workflow, like how to collect and store samples, extract lipids, perform mass spectrometric analysis, perform data processing, and report results. The aim is to give users an overview regarding the quality and completeness of lipidomic data, to harmonize the field further, and to improve the quality of lipidomic analysis.

[Watch the recording.](#)

---

STAY CONNECTED



AOCS | P.O. Box 17190 | Urbana, IL 61803 USA | [aocs.org](http://aocs.org)

[Unsubscribe](#) from CIGs (Common Interest Groups) messages  
[Manage your email preferences](#)