

36th Annual Meeting of The Southern Section

of the AOAC International

"The Scientific Association Dedicated to Analytical Excellence"

Atlanta, Georgia

April 18-19, 2023

***Helping to Bring the Latest Breakthroughs
to the Scientific Community***



SUMMARY OF EVENTS

Monday, April 17

5:00 PM	Executive Board Meeting	Decatur Room
6:00 PM	Exhibit & Poster Setup	Centennial Ballroom

Tuesday, April 18

Exhibits & Posters 9:00AM - 5:00 PM Centennial Ballroom

7:30 AM – 4:00 PM	Registration	Amphitheater Hall
8:30 AM – 11:45 AM	General Session	Dogwood Amphitheater
12:00 PM – 1:00 PM	Luncheon Workshop	Dogwood & Peachtree Amphitheater
1:15 PM – 4:15 PM	Workshops	Dogwood & Peachtree Amphitheater
4:15 PM – 5:00 PM	Poster Session	Centennial Ballroom
5:00 PM – 8:00 PM	Evening Reception	Centennial Ballroom

Wednesday, April 19

Exhibits & Posters 9:00 AM-3:15 PM Centennial Ballroom

7:30 AM – 12:00 PM	Registration	Amphitheater Hall
8:30 AM – 12:25 PM	Microbiology Session Chemistry Session	Peachtree Amphitheater Dogwood Amphitheater
12:25 PM – 1:25 PM	Luncheon Workshops	Dogwood Amphitheater
1:25 PM – 3:50 PM	Microbiology Session Chemistry Session	Peachtree Amphitheater Dogwood Amphitheater



Southern Section of AOAC INTERNATIONAL
“The Scientific Association Dedicated to Analytical Excellence”

April 18, 2023

Dear Colleagues,

Welcome to the 36th Annual Conference of the Southern Section of the AOAC. I hope you enjoy your stay here in Atlanta.

One of the best benefits about this meeting is that I make great contacts with other people of analytical excellence, and I want you to do the same. There has been a lot of new analytical requirements recently for our laboratories and it is much easier knowing the correct people to contact to assist with these new challenges. You will find other scientists that are willing to help you with the new regulatory and analytical issues, as well. We are in exciting times in the field of analytical science with all the advancements in technology and methodology that are occurring right now.

To help make these new contacts, please plan to attend the evening reception on Tuesday. There will be heavy appetizers, drinks, and live entertainment. Some of the best networking happens when we take the time to talk in a relaxed atmosphere.

You will find a lot of microbiology and chemistry presentations that will give you solutions and ideas that you can take back to advance your laboratory. Also, make sure that you visit the poster area to get a plethora of information on current topics in both sciences from these presentations. In addition, I want to encourage the students to network and use the knowledge of the other attendees because you are the up-and-coming stars of the analytical community. There will be a lot of attendees, myself included, that are very passionate about analytical excellence and the latest breakthroughs in methodologies. Feel free to ask us questions because we love to share the knowledge with others.

Don't forget to visit our vendors. Their generosity makes this meeting possible at such an affordable price. They have the latest technology to aid with today's analytical challenges that require greater sensitivity, specificity, and efficiency for our laboratories.

Please feel free to reach out to myself or any of the officers if there is anything, we can do to help make your experience more beneficial. We'd love to talk with you about volunteering too.

Sincerely,

Kenneth Powell

President Southern Section of AOAC International

2023 VENDORS

*Exhibit Area is open Tuesday 9:00 AM to 4:00 PM
and Wednesday 9:00 AM to 3:00 PM (Centennial Ballroom)*

Agilent Technologies
AOAC International
Autoscribe Infomatics
bioMerieux
Bio-Rad
Biotage, LLC
Bruker
CEM
Emery Scientific
Interscience Laboratories
MilliporeSigma
Mobillon Systems
NACRW/Flag Works
Neogen
Omicron Scientific
PDQ Scientific, LLC
Peak Scientific
PerkinElmer
Perry Johnson Laboratory Accreditation, Inc
Sciex
Shimadzu Scientific
UCT, Inc.
ThermoFisher Scientific
Verder-Scientific
Viridis Laboratories
Waters Corporation

WORKSHOPS

PERKIN ELMER
BIOMERIEUX
PERRY JOHNSON LABORATORY ACCREDITATION
MOBILION

LUNCHEON WORKSHOPS



Agilent Technologies

BREAKS



NAME BADGE LANYARDS



Tuesday, April 18 General Session

Morning Session—Peachtree Amphitheater

- 8:30-8:35** **Welcome—President**
Kenneth Powell, Retired NOAA
- 8:35-8:40** **Call to Order—President-Elect**
Ynes Ortega, University Georgia
- Anant Jain Award**
Presented to Joe Basile, Lab Director, Alabama Dept. AG
- 8:40-9:00** **AOAC International Update**
Erin S. Crowley
Chief Scientific Officer
Q Laboratories-Cincinnati, Ohio
- 9:00-9:35** **Methods Validation: A Comparison of AOAC, FDA and ISO Protocols**
Thomas Hammack, Senior Policy Analyst
Division of Microbiology, Office of Regulatory Science
Center for Food Safety & Applied Nutrition, Washington, DC
- 9:35-10:10** **Challenges in Analytical Testing Observed in Various Cannabis Matrix Types**
Alexandra Tudor, Director of Business Development
TEQ Laboratories, Denver, Colorado
Presented by Ron Johnson
- 10:15-11:00** **Break—Sponsored by NACRW**
Door Prizes (Centennial Ballroom)
VISIT EXHIBITORS AND POSTERS
- 11:00-11:45** **Technical Training Workshops**
- Direct Quantification: A Paradigm Shift in Salmonella Enumeration**
John Mills, bioMerieux

Tuesday, April 18

Technical Training Workshops

Moderator: Kenneth Powell, Retired NOAA

Luncheon Session

*Each luncheon workshop includes lunch for 35 attendees.
Sign up at the registration desk on Tuesday morning.*

Dogwood Amphitheater

12:00-1:00 Hot Topics in Heavy Metals Testing in Food

Jenny Nelson, PhD Application Scientist

Agilent Technologies, Adjunct Professor UC Davis

Advances in Food PFAS Analysis

Stephan Baumann, Technical Marketing Manager, Global
Applied Markets, Agilent Technologies

Peachtree Amphitheater

**12:00-1:00 A Non-Targeted Metabolomics Approach for the
Investigation of Honey Adulteration by HPLC-High
Resolution Mass Spectrometry**

Todd Stoner, Technical Sales Specialist

Life Sciences Mass Spectrometry

Thermo Fisher Scientific

**Power your elemental analysis – Get ready to
Transform your Productivity**

Mike Mourgas, Senior Application Scientist

Trace Elemental Analysis

Thermo Fisher Scientific

Tuesday, April 18
Technical Training Workshops
Dogwood Amphitheater

Moderator: Kenneth Powell, Retired NOAA

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|------------------|--|
| 1:15-2:00 | Taking a Non-Linear Path to Solving Our Problems:
One Second Gas Phase Separations with High
Resolution Ion Mobility
Frederick Strathmann
SVP, Clinical and Applied Markets, Mobillon Systems |
| 2:00-2:45 | Macro and Micro Nutrient Analysis in Pet Food Using
ICP-OES and Microwave Assisted Digestion, a Practical
and Theoretical Approach
Jeffrey Sayen
Sr. Field Application Scientist, PerkinElmer |
| 2:45-3:30 | Break— Door Prizes (Centennial Ballroom) VISIT
EXHIBITORS AND POSTERS (Authors Present) |
| 3:30-4:15 | Avoiding Pitfalls in Accreditation Preparation in
Cannabis Labs
Matthew Sica
Program Manager, Perry Johnson Laboratory Accreditation |
| 5:00-8:00 | Southern Section Reception
Foyer of the Centennial Ballroom |

Wednesday, April 19
Microbiology Presentations
Morning Session—Peachtree Amphitheater
Breaks and Exhibits in the Centennial Ballroom

Moderator: Ynes Ortega, University of Georgia

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|--------------------|---|
| 8:30-8:55 | Avian Influenza: The Other Pandemic
Doug Waltman and Dr. Louise Dufour-Zavala
Georgia Poultry Laboratory |
| 8:55-9:20 | Re-visiting the Viable but Not-Culturable Concept in Food Safety Diagnostics
Pratik Banerjee, PhD
Associate Professor of Food Safety, Department of Food Science and Human Nutrition, University of Illinois at Urbana |
| 9:20-9:45 | Riding Shotgun: Accelerating Food Safety Improvements with Whole Genome and Metagenomic Sequencing
Darryll Barkhouse
Invisible Sentinel |
| 9:45-10:45 | Break—Sponsored by NACRW/Flag Works (Centennial Ballroom)
Door Prizes VISIT EXHIBITORS AND POSTERS |
| 10:45-11:10 | Analysis in Support of Cronobacter Contamination of Powdered Infant Formula in the USA
Kevin Karem
Director, Atlanta FDA-SRL |
| 11:10-11:35 | Driving Diagnostic Innovation-the Intersection of Genomics and Assay Development
Adam Joelsson
Director of R&D, Invisible Sentinel |
| 11:35-12:00 | Food-borne Outbreaks of Hepatitis A
Sumathi Ramachandran, MS, MPH, PhD
CDC |
| 12:00-12:25 | Optimal Dilution of Polysorbate (Tween) 20 for the Determination of Enterobacteria and Total Yeast and Mold on Cannabis Concentrate
Anthony Repay
Method Testing Laboratories |

Wednesday, April 19
Microbiology Presentations
Afternoon Session— Peachtree Amphitheater
Breaks and Exhibits in the Centennial Ballroom

Moderator: Val Suktankar, FDA

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|-------------------|---|
| 1:25 -1:50 | Adoption of a New Bacterial Confirmation System for NARMS Cecal Program
Andrew Hudgens, Microbiologist
and Glenn Tillman, PhD Branch Chief, Eastern Laboratory
Microbiology Characterization Branch, FSIS, USDA |
| 1:50-2:15 | Method for Rapid Onsite Identification of Commercially Important Seafood Species
Prashant Singh, PhD
Assistant Professor, Nutrition, Food & Exercise Sciences
Florida State University |
| 2:15-2:40 | Characterization of <i>Salmonella enterica</i> from Informal Markets in Cambodia
Carla Schwan
University of Georgia |
| 2:40-3:05 | Break—Door Prize Drawing in Foyer
VISIT EXHIBITORS AND POSTERS |
| 3:05-3:30 | Application of Fungal DNA Barcoding in Food Safety and Environmental Surveillance of Public Health Importance
Irshad Sulaiman, MSc, MPhil, PhD
Research Microbiologist, FDA |
| 3:30-3:50 | FDA Laboratory Flexible Funding Model
Stacie Hammack
FDA |

Southern Section of AOAC Annual Conference Concludes
“Exciting Door Prizes” and the
“Grand Prize Drawing” in the Foyer

Wednesday, April 19
Chemistry Presentations
Morning Session— Dogwood Amphitheater
Breaks and Exhibits in the Centennial Ballroom

Moderator: Tiana Shaw, FDA

- 8:30-8:55** **Determination of Urolithin Related Metabolites in Human Plasma by LC-MS Analysis – Potential Biomarkers for Pecan Consumption**
Min Jeong Kang, Department of Food Science & Technology
University of Georgia
- 8:55-9:20** **E-tongue, E-nose, and Sensory Research**
Sungeun Cho, Ph.D.
Assistant Professor, Food Science, Dept. of Poultry Science
Auburn University
- 9:20-9:45** **Cannabis Compliance Testing: Abundant issues exist so why do we still do it?**
Stephen Goldman, Chief Science Officer
Kaycha Labs
- 9:45-10:45** **Break—Sponsored by NACRW/Flag Works Door Prizes (Centennial Ballroom) VISIT EXHIBITORS AND POSTERS**
- 10:45-11:10** **The Analysis of Pesticides in Cannabis Using Triple Quadrupole Mass Spectrometry**
Adam Floyd, Co-Founder Cascade Laboratory Consulting
Bend, Oregon
- 11:10-11:35** **Improved Techniques for Residual Solvent Analysis in Cannabis Extracts and Infused Products to Meet and Exceed State Regulatory Requirements**
Roy Sorensen, Laboratory Director
Method Testing Labs
- 11:35-12:00** **Updates on Methodology for Establishing Standards for Color Additives from Natural Sources**
Bhakti Petigara Harp, Ph.D., Research Chemist
FDA, College Park Maryland
- 12:00-12:25** **The Laboratories Role in a Criminal Investigation**
Mike Weyman, Deputy Director, Regulatory Services
Clemson University

Wednesday, April 19
Chemistry Presentations
Afternoon Session— Dogwood Amphitheater
Breaks and Exhibits in the Centennial Ballroom

Moderator: Valerie Champ, PerkinElmer

12:25-1:25

Luncheon Session

***Luncheon Workshop includes lunch for 35 attendees.
Sign up at the registration desk on Wednesday morning.***

Emerging Methods and Technologies for Monitoring Food Contaminants

Naren Meruva, Food and Environmental Markets
Waters Corp USA

1:50-2:15

Adulterants in Dietary Supplements

Grace Bandong
Business Unit Manager, Contaminants, and Inorganics Eurofins
Food Chemistry Testing Madison, Inc, Madison, WI

2:15-2:40

The Pesticide Data Program 1991-2021: 30 years of Residue Data and Trends

Jessica Murillo and Amy Gaines, AG. Marketing Serv., USDA

2:40-3:05

Break—Door Prize Drawing in Foyer VISIT EXHIBITORS AND POSTERS

3:05-3:30

The Chemistry Behind Soil Testing at Clemson University Agricultural Service Laboratory

Shannon Alford, Director, Agricultural Service Laboratory
Clemson University

3:30-3:50

Characterization and Performance of Metal-Oxide/Aluminum Silicates Catalysts to Remove Methyl Mercaptan from Natural Gas

Gerson Martinez Zuniga, Energy Institute, University of Louisiana, Lafayette, Louisiana

Southern Section of AOAC Annual Conference Concludes
“Exciting Door Prizes” and the
“Grand Prize Drawing” in the Foyer

Tuesday and Wednesday, April 18-19

Poster Presentations

**Poster Area is open Tuesday from 9:00 AM to 5:00 PM
and Wednesday from 9:00 AM to 3:15 PM (Centennial Ballroom)**

Moderator: **John Mathis, FDA**

**Single-laboratory Validation Study of a Method for Rapid Screening
of *Cronobacter sakazakii* and Related Species using VITEK MS System**

Irshad M. Sulaiman, MSc, MPhil, PhD

Research Microbiologist, FDA

**PFAS Dark Matter and Slippery Cannabis: Disparate Problems with a
Similar Path to a Solution**

Frederick G. Strathmann, Rachel A. Harris, Joshua K. McBee, Thomas G.
Lubinsky, Julie A. Wushensky, Heidi Vitrac

MOBILion Systems, Inc.

Adsorption of Organic Pollutants onto Microplastics

Kirstin Goff

Kennesaw State University

Detection of Metals and Minerals in Sweet Potatoes & Soils by ICP-MS

Darren Nakamura, Ashley Meredith, John Williams, Erika Womack

Mississippi State Chemical Laboratory

**Evaluation of AI-Holy-Rasco (AR) Enrichment Broth for the Recovery of
Cronobacter spp. from Various Sources**

Nancy Miranda, Joseph Mendoza, Steven Simpson, Kevin Kareem, and Irshad
M. Sulaiman

FDA, Southeast Food and Feed Laboratory

**Analysis of Trimethylamine N-oxide Metabolites in Rodent Serum as
Potential Biomarkers for Pregnancy and Diabetes: a Case Study**

Namhee Lee¹, Gar Yee Koh², Jie Zhu², Michelle Lane², Joonhyuk Suh¹

Department of Food Science & Technology

University of Georgia, GA, USA

¹Department of Food Science and Technology, University of Georgia,
Athens, GA, USA

²Nutrition and Foods Program, School of Family and Consumer
Sciences, Texas State University, San Marcos, TX, USA

**Determination of Urolithin Related Metabolites in Human Plasma by LC-
MS Analysis – Potential Biomarkers for Pecan Consumption**

Min Jeong Kang, Joon Hyuk Suh, Liana L. Guarneiri, Jamie A. Cooper,
Chad M. Paton

Department of Food Science & Technology

University of Georgia, GA, USA

Tuesday and Wednesday, April 18-19
Poster Presentations (continued)
Poster Area is open Tuesday from 9:00 AM to 5:00 PM
and Wednesday from 9:00 AM to 3:15 PM (Centennial Ballroom)

Moderator: **John Mathis, FDA**

Determination of Glyphosate by LC-MS/MS

Julie Toler, Ashley Meredith, Erika Womack
Mississippi State Chemical Laboratory

Auditing Your Laboratory to ISO/IEC 17025:2017: Improvements Can Be Found in Findings

Monica Haque, Dongping Jiang, Erika Womack
Mississippi State Chemical Laboratory

Investigation Into Usage of Invasive Plant Giant salvinia (*Salvinia molesta*) for Production of Value-Added Products

Ava G. Welch; William E. Holmes; and Mark E. Zappi Energy Institute of Louisiana; Department of Chemical Engineering; University of Louisiana at Lafayette, Lafayette, LA

Investigating Chemical Oxidation for Remediation of Emerging Groundwater Contaminant 1,4-Dioxane

Karlie C. Dufrene; Serenity A. Broussard; William E. Holmes; Mark E. Zappi Energy Institute of Louisiana and Department of Chemical Engineering, University of Louisiana, Lafayette, LA

Chemical Analysis Utilizing Inductively Coupled Plasma-Optical Emission Spectrometry for Performance of the Capture of Lithium from Process Waters Using H₂TiO₃ Adsorbent

Cade M. Hontiveros; David J. Shoemaker; Daniel D. Gang; Mark E. Zappi Energy Institute of Louisiana; Department of Chemical Engineering; Department of Civil Engineering; University of Louisiana at Lafayette, LA

Analysis of Trimethylamine N-oxide Metabolites in Rodent Serum as Potential Biomarkers for Pregnancy and Diabetes: a Case Study

Namhee Lee Department of Food Science & Technology
University of Georgia

Tuesday and Wednesday, April 18-19
Poster Presentations (continued)
Poster Area is open Tuesday from 9:00 AM to 5:00 PM
and Wednesday from 9:00 AM to 3:15 PM (Centennial Ballroom)

Moderator: **John Mathis, FDA**

Investigating the Persistence of Infectious Human Norovirus on Lettuce and in Natural Surface Freshwater using Human Intestinal Enteroids

Narwankar R, Kassem I, Costantini VP, Vinjé J, and Esseili MA
Center for Food Safety, University of Georgia, Division of Viral Diseases,
Centers for Disease Control and Prevention

Efficacy of Peracetic acid and Sodium Hypochlorite against SARS-CoV-2 on Contaminated Surfaces

Morris, J. N. Co-Authors: Esseili, M.A
Center for Food Safety, University of Georgia

Persistence of Infectious Human Norovirus Surrogate in Berry Smoothies and during Simulated Gastrointestinal Digestion

Riya Hooda Co- Authors: Malak A. Esseili
Center for Food Safety, University of Georgia

Evaluation of the Efficacy of Different Organic Acids Against Major Foodborne Bacterial Pathogens on Poultry Meat and Lettuce

Nivin Nasser, Issmat I. Kassem, Assistant Professor
Center for Food Safety, University of Georgia

Impact of Surface Color on the Efficacy of Antimicrobial Blue Light Against *L. Monocytogenes*

Krishna Prabha, Govindaraj Dev Kumar and Francisco Diez
Center for Food Safety, University of Georgia

Comparative Study of the Susceptibility to Blue Light Inactivation of Foodborne Pathogens and Spoilage Bacteria

Minji Hur and Francisco Diez-Gonzalez
Center for Food Safety, University of Georgia, Griffin, GA

The Mobile Colistin Resistance Gene (*mcr-9.1*) is Carried by Different Bacterial Species Isolated from Environmental and Imported Seafood Samples in Georgia

Jouman Hassan; Malak A. Esseili; Tongzhou Xu; David Mann; Xiangyu Deng;
Issmat I. Kassem
Center for Food Safety, University of Georgia

Comparison of Three Elution Buffers for the Recovery of Cyclospora Oocysts from Berries and Cilantro

Dylan White and Ynes Ortega
Center for Food Safety, University of Georgia, Griffin, GA

Anant Jain Founder's Award

The Anant Jain Founder's Award was established in 1999 to honor a distinguished member of the Southern (formerly Southeast) Section of the AOAC International who continues to make contributions to our Section through their leadership. The recipient must have held a leadership role as a Section officer and had an active role in the Section.

Past recipients:

1999 Anant Jain	2005 Larry Lagman
2000 Wick Johnson	2010 Reuben Beverly
2001 Sher Ali	2011 Anne Reid
2002 Virlyn Burse	2012 Dana Barr
2003 Doug Hite	2013 Joe Rainey
2004 Jim Scott	2014 Jay Hardee
2006 Mike Farrow	2015 Amy Brown
2007 Lurlene Dixon	2016 Bill Holmes
2008 Jim McGuire	2018 Val Suktankar
2009 Sherry Garris	2022 Joe Basile

Doug Hite Honorarium

The Doug Hite Honorarium was established in 2006 by Co-Presidents Sherry Garris and Jim McGuire to recognize the dedication and leadership that Doug has demonstrated to the Southern Section and AOAC International.

The recipient will be determined by the Section Awards Committee and must have held a leadership role in the Section, had an active role in the Section for a minimum of 10 years, and be a member of the AOAC International Board of Directors, Official Methods Board, or active in Association work.

Past recipients:

2006 Doug Hite
2007 Anant Jain
2008 Jo Marie Cook
2009 Gayle Lancette
2010 Wayne Ziemer
2011 Doug Hite
2012 JoMarie Cook
2013 Doug Hite
2015 Doug Hite
2016 Amy Brown

Fellows of AOAC INTERNATIONAL from the Southern Section

The Fellow of AOAC INTERNATIONAL Award recognizes the dedication and commitment of those volunteers who serve the Association. Fellows are chosen from those members who have given 10 years of meritorious service to AOAC.

1990 Ken Boyer
1992 Gayle Lancette
1997 George Latimer
1997 Anant Jain
2000 Argentina Vindiola

2001 Doug Hite
2004 Mark Mozola
2006 Wayne Ziemer
2011 Jo Marie Cook
2020 Ron Johnson

AOAC Southern Section Officers 2022-2023

President

Kenneth Powell

(Retired) Quality System Manager
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Section Past Presidents

1986	Anant Jain	2005	Wayne Ziemer
1987	Frank Allen	2006	J.McGuire & S.Garris
1988	Martha Hudak-Roos	2007	Reuben Beverly
1989	Sher Ali	2008	Anne Reid
1990	Gail Parker	2009	Dana Barr
1991	Jim Hess	2010	Joe Rainey
1992	Virlyn Burse	2011	Jay Hardee
1993	Doug Hite	2012	Amy Brown
1994	Bill Brooks	2013	Bill Holmes
1995	Jim Scott	2014	Tim Beasley
1996	Larry Lagman	2015	Val Suktankar
1997	Bert Lynn	2016	Mark Crosswhite
1998	Mike Farrow	2017	Denise Mitchell
1999	Pat Beckett	2018	Joe Basile
2000	Reba Ingram	2019	Oliver Ou
2001	Lurlene Dixon	2020	No conference
2002	Michael Curry	2021	Dana Shell
2003	Jo Marie Cook	2022	Kenneth Powell
2004	Evelyn Bonnin		

AOAC Southern Section Executive Board Members 2022-2023

MEMBERS AT LARGE

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AOAC Southern Section Executive Board Members 2022-2023

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**AOAC Southern
Section
Executive Board**

**MEMBERS AT LARGE
(continued)**

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Please Note: for 2024

**The 37th Annual Conference of the Southern Section
AOAC International
will be held in
Atlanta, GA
April 16-17, 2024**

Proposed 2024 Conference Topics:

General:

Nanotechnology
Virtual Reality and Laboratory Training
Merging of Artificial Intelligence and the Analytical Sciences

Chemistry:

Biotechnology, Energy Innovations and Nutraceuticals
New Technologies & Methodology
Cannabis, Toxins, Food, Environmental Contaminants, Heavy Metals
LC-MS/MS and GC-MS/MS

Microbiology:

Biotechnology and Nutraceuticals
Emerging Technologies and the Analysis of Food Borne Pathogens
MALDI-TOF Mass Spectrometry
PCR, Mass Spectrometry, Rapid testing

Notes: