

Day 1

8:00-9:00

Opening Onsite Registration-OCC Lobby

Opening Session-OCC Auditorium

8:30-10:00

John Higginbotham, Vice Chancellor of Research and Economic Development, University of Mississippi
Ikhlas Khan, Director of National Center for Natural Products Research (NCNPR) , University of Mississippi
Key Note Address: Cara Welch, Director, Office of Dietary Supplement Programs at FDA
Special Guest Speaker: Vaidya Rajesh Kotecha, Secretary, Ministry of Ayush, India

10:00-10:30

Break

OCC Auditorium

Session 1

What's Next for Dietary Supplements? Current Shifts and Future Innovations

Chair: Stephen Daniells, William Reed Inc.

10:30-10:55 Andrew Bremer, National Institute of Health, "Updates from the Office of Dietary Supplements at the NIH."
10:55-11:20 Bill Giebler, New Hope Network, "Herbal Horizons: Exploring the Dietary Supplement Marketplace."
11:20-11:45 Dan Fabricant, Natural Products Association, "Windshield not the rearview mirror."
11:45-12:00 Conference Photography

12:00-1:00

Lunch (OCC Cedar Room)

OCC Auditorium

Session 2a

March 27 FDA Public Meeting - Exploring the Scope of Dietary Supplement Ingredients: What Did We Learn?

Moderator And Session Chair: Dan Fabricant, NPA

Cara Welch, Food and Drug Administration

1:15-2:30

Dan Fabricant, Natural Products Association (NPA)

Graham Rigby, American Herbal Products Association (AHPA)

OCC Magnolia

Session 2b

Frontiers in Botanical Science: Integrating Advanced Analytics, Clinical Safety, and Regulatory Frameworks

Chair: Mei Wang, USDA

1:15-1:35 Mengliang Zhang, Ohio University, "Assessing TLC-DART-MS as a Complementary Tool for Botanical Supplements"

1:35-1:55 Nicole Stevens, doTERRA, "Chemistry and Biochemistry of Frankincense Volatile Oil and Boswellic Acid Extract: Clinical Research Outcomes."

1:55-2:15 Maria Monagas, US Pharmacopeia, "Application of AQbD Principles to Build a Robust Compendial Analytical Method for the Quantification of Phytochemicals in Mate and Guayusa Leaf Dietary Ingredients."

2:15-2:35 Kerin Law, LeafWorks Inc, "Advancements in Botanical ID Using DNA: Modern DNA Methods for Complex Products and Supply Chains."

2:30-3:00

Break

OCC Auditorium

Session 3

Emerging Challenges in Cancer Research

Chair: Larry Walker, Emeritus University of Mississippi

3:00-3:30 Jeffrey D. White, National Institute of Health, "The National Cancer Institute and Traditional Medicine Research."

3:30-4:00 Rodney Rocconi, University of Mississippi Medical Center, "Plants and Possibilities: Nature's Take on Cancer."

4:00-4:30 Gailen Marshall, University of Mississippi Medical Center, "Using Natural Products in Patients with Cancer: More than Chemotherapy."

OCC Auditorium

Session 4

The 5th Annual JD McChesney Seminar

Chair: JD McChesney, Cloaked Therapeutics, LLC (Ikhlas Khan)

4:30-5:30 Larry Walker, University of Mississippi

6:00-8:00 Reception/Mixer -Special Guest of Honor: Vaidya Rajesh Kotecha , Secretary of the Ministry of AYUSH, India.

Venue: The Lyric at 1006 Van Buren Avenue, Oxford, MS 38655

Day 2

Current Regulatory Landscape and Future Perspectives: An FDA Update on Botanical Dietary Supplements

Chair: **Cara Welch**, Food & Drug Administration

Kaila Fuller, Food & Drug Administration, "Yeast as a "Microbial Factory.""

8:30-10:00 **Christine Parker**, Food & Drug Administration, "Detection of Yellow Oleander Cardiac Glycoside Adulteration in Dietary Supplements."
Cassandra Taylor, Food & Drug Administration, "Botanical Updates from CDER Perspective."

10:00-10:30 Break

	OCC Auditorium		OCC Magnolia
Session 6a	Pharmacovigilance and Risk Characterization in the Botanical Supplement Industry	Session 6b	Integrated Analytical Workflows for Botanical Standardization and Bioavailability
	Chair: Bill Gurley , University of Mississippi		Chair: Paula Brown , British Columbia Institute of Technology
	Rick Kingston , SafetyCall, "Botanical hepatotoxicity: Are We Accurately Characterizing Risk vs. Hazard."	10:30-10:50	Rory Coleman , OmniActive Health Technologies, "Advancements in Extraction and Co-extraction of Botanicals for Standardization and Efficacy."
	Jo Barnes , University of Auckland, "Pharmacovigilance for Natural Health Products: Developing a Questionnaire to Understand Consumer Views on Industry Involvement."	10:50-11:10	David Stella , Agilent, "From Venom Insights to Multiomics Innovation: Advancing Peptide Discovery Through Integrated Analytical Workflows."
10:30-12:00	Andrea Lindsey , Uniformed Services University, "Bridging the Information Gap: Promoting Informed Use of Dietary Supplements for Health and Human Performance."	11:10-11:30	Tien Do , CAMAG, "HPTLC: The New Front Line of Global Botanical Surveillance."
		11:30-11:50	Wendy Strangman , University of North Carolina at Wilmington, "Metabolite Profiling of Chamaelirium luteum (False Unicorn) Roots and Related Commercial Products by HPTLC and LC-MSMS."
		11:50-12:10	Tahira HS , Hirehal Greenspace Herbs Pvt Ltd, "Molecular Vibrational Modulation for Superior Bioavailability of CurcuminQA™: A Quantum Ayurveda Approach."

12:15-1:00 Lunch (OCC Cedar Room)

	OCC Auditorium		OCC Magnolia
Session 7a	Advances in Ginseng Research: Clinical Trials and Molecular Mechanisms in Aging and Disease	Session 7b	Fungal Metabolomics and the Standardization of Functional Mushroom Products
	Chair: Nirmal Pugh , University of Mississippi		Chair: Stefan Gafner , American Botanical Council
	Namhan Cho , Ajou University School of Medicine, "Efficacy and Safety of Red Ginseng Extract Powder (KGC05PG) in Achieving Glycemic Control in Prediabetic Korean Adults: 12-week, Single Center, Randomized, Double-blind, Parallel-group, Placebo-controlled Study."	1:00-1:30	Betsy Yakes , Food & Drug Administration, "The Fun Guy: An Overview of Mushroom Use in Dietary Supplements."
1:00-2:30	Hak Soo Choi , Forsyth Institute (Harvard), "Ginsenoside-based theranostic agents for Alzheimer's Disease: Implications for brain penetration, cellular uptake and anti-aging effects."	1:30-1:50	Steven Dentali , Nammex, "Authenticated Hericium erinaceus Mushroom and Selected Mycelia Reference Materials for General Industry Use."
	Hong-sheng Tan , Shanghai Jiao Tong University School of Medicine, "Advances in Clinical Research on the Antioxidant and Anti-aging effects of Korean Red Ginseng."	1:50-2:20	Julie Daoust , M2 Ingredients, "Bioactive Metabolite Markers for Functional Mushrooms: Comprehensive Metabolomic Mapping of Full-Spectrum Cultivated Mushrooms, Standard Production and Method Development."
		2:20-2:40	Kyle Meyer , Fungi Perfecti, LLC, "Metabolomic Characterizations of Hericium erinaceus (Bull.) Pers. and Laricifomes officinalis (Vill.) Kotl. & Pouzar Fungal Cultures."

2:30-3:00 Break

	OCC Auditorium		OCC Magnolia
Session 8a	Global Commerce of Botanicals: Navigating Tariffs, Trade, and International Compliance	Session 8b	Botanical Safety Consortium: Progress Towards a Screening Toxicity Toolkit
	Moderator And Session Chair: Mark Blumenthal , ABC		Chair: Amy Roe , Procter & Gamble
	Raman Kaushik , Ministry of AYUSH, "Updates on Ayush based products: Regulatory Status."	3:00-3:15	Connie Mitchell , Health and Environmental Sciences Institute, "Botanical Safety Consortium: Overview and Progress."
3:00-3:20	Mukesh Kumar Nariya , Ministry of AYUSH, "Updates on Ayush based products: Preclinical Research"	3:15-3:30	Stephen Ferguson , National Institute of Health, "Exploring NAM-based Approaches to Evaluate Botanical-induced Hepatotoxicity and Drug Interactions."
	Vaidya Rajesh Kotecha , Secretary, Ministry of AYUSH	3:30-3:45	Cynthia Rider , National Institute of Health, "The Use of NAMs to Screen for Developmental and Reproductive Toxicity (DART) of Botanicals."
3:20-4:30	Mark Blumenthal , American Botanical Council (ABC)	3:45-4:00	Cecile Bascoul , doTERRA. "Using Test Guideline in silico and in vitro Tools to Evaluate Dermal Toxicity in Botanicals."
	Holly Johnson , American Herbal Products Association (AHPA)		

4:30 Commemorative Issue Presentation on Ashwagandha - Phytotherapy Research (Thomas Brendler)

5:30-8:00 POSTER SESSION (OCC Cedar Room) & Indian Food Chair: **Amar Chittiboyina**, NCNPR, University of Mississippi

6:00-8:00 Dinner-OCC Cedar Room

Day 3

Breaking the Barriers to Cannabis Research: A Workshop with Regulators and Researchers

Moderator & Chair: **Mary Paine & Ikhlas Khan, University of Mississippi**

A Joint Effort: Accomplishments of the Resource Center for Cannabis and Cannabinoids Research

8:30-10:00 **Patrick Still**, National Institute of Health
Don Stanford, University of Mississippi
Mary Paine, Washington State University
Nandakumara Sarma, US Pharmacopeia

10:00-10:30 Break

	OCC Auditorium
Session 10a	Navigating the Barriers: FDA, DEA, and R3CR Insights Chair: Don Stanford , University of Mississippi
10:30-10:55	Cassandra Taylor , Food and Drug Administration, "Cannabis: An FDA Scientific Perspective."
10:55-11:20	Will Heuett , Drug Enforcement Agency, "Title - TBA" Don Stanford , University of Mississippi, "Considerations for Schedule III Cannabis Researchers"
11:20-11:45	Rebecca Cooney , Washington State University, "From Science to Social: Executing Digital Campaigns for Cannabis Research"
11:45-12:00	Panel Discussion

	OCC Magnolia
Session 10b	The Botanical Continuum: From Advanced Analytical Characterization to Clinical Validation Chair: Russ Osguthorpe , doTERRA
10:30-10:50	Olaf Kelber , Bayer Consumer Health, "In vitro vs. In vivo Studies on the Interaction of Natural Products with the Gut Microbiota: The Example of STW 5."
10:50-11:10	Prabodh Satyal , Aromatic Plant Research Center, "Frankincense (<i>Boswellia spp.</i>) Essential Oils: Chemistry-Driven Authentication, Chemotype Discovery, and Sustainability Insights Across my published Studies."
11:10-11:30	Yuyan Xia , Shanghai Jiao Tong University School of Medicine, "Real-World Lipid-Lowering Effect and Safety of Standardized Ginkgo biloba Extract (GBE50) Combined with Statins."
11:30-11:50	Belinda Tan , People Science, "Real World Fertility: From Participatory Research to Clinical Trial."

12:00-1:00 Lunch (OCC Cedar Room)

	OCC Auditorium
Session 11a	Cannabis Science: Identity, Diversity, and Botanical Research Chair: Robert Welch , University of Mississippi
1:00-1:20	Nick Batora , LeafWorks Inc., "Cannador Herbarium: A Comprehensive Herbarium Resource for Cannabis Identity, Diversity, and Botanical Research."
1:20-1:40	Kyle Boyar , KB Consultations, "Mycotoxin Trends in Cannabis Flower and Concentrates in the United States."
1:40-2:00	Yasha Kahn , MCR Labs, "Evidence-Based Characterization of Cannabis Cultivars."
3:30-5:00	ICSB Yard Games & Competition

	OCC Magnolia
Session 11b	Global Perspectives on Botanical Innovation: Safety, Efficacy, and Regulatory Science Chair: Ryan Yates , University of Mississippi
1:00-1:20	John Walsh , Trinity College Dublin, "Phytochemical and Anticancer Studies on the Terpenoid Constituents in <i>Erica erigena</i> ."
1:20-1:40	Zakiyah Henry , National Institute of Health, "From Plant Origins to Neural Outcomes: Utilizing an In vitro Screening Battery to Assess Developmental Neurotoxicity of Botanicals."
1:40-2:00	Cecile Bascoul , doTERRA, "Hazard vs Risk: Scientific Considerations on the EU CLP Approach to MOCS and Whole Essential Oil Classification with Tea Tree Essential Oil as an Illustrative Example."
2:00-2:20	Amy Roe , Proctor & Gamble, "Cautionary Labeling Recommendation for USP Turmeric and Curcuminoid Monographs."

6:00-9:00 Bowling And Southern Fish & Chicken (Premier Lanes, 204 Commonwealth Blvd., Oxford, MS)

Day 4

OCC Auditorium

Natural Products in Drug Discovery: Biotransformation, Target Modulation, and Quality Control

Chair: **Shabana Khan**, University of Mississippi

Session 12

Emerson Queiroz, University of Geneva, "Expanding Natural Product Diversity Through Biotransformation."

8:30-10:00

Patricia Rijo, Lusofona University, "Medicinal Plants and One Health Drug Discovery: *Plectranthus Abietanes* as P-Glycoprotein Modulators."

Olaf Kelber, Bayer Consumer Health, "Natural Products as Multi Drug-Multi Target Therapeutics - From the Pharmacological Proof to New Approaches for Quantitative Quality Control."

10:00-10:30

Break

Session 13a

OCC Auditorium

Advancements in Botanical Toxicology, Characterization, and Regulatory Frameworks

Chair: **Amar Chittiboyina**, University of Mississippi

Nadina Jose, Rutgers University, "Beyond the Basics: Rules, Regulations, and Realities of INDs."

Sibyl Swift, Swift Strategy Group, "Naturally Derived Kratom Extracts: Toxicological Evaluation in Humans and Rodents."

10:30-12:00

Igor Koturbash, University of Arkansas for Medical Sciences, "Determinants of Opioid-relevant Exposure From 7-hydroxymitragynine Products in the Evolving U.S. Marketplace."

Paula Brown, BC Institute of Technology, "From Traditional kratom to modern commercial products: Quality and safety considerations"

Session 13b

OCC Magnolia

Emerging Tools for Botanical Safety and Toxicity Screening

Chair: **Thomas Brendler**, PlantaPhile

10:30-10:50 **Tahir Mir**, NOW Health Group, "Unmasking Ashwagandha Controversy: Safety, Toxicity, and Adulteration."

10:50-11:10 **Sarah Barr**, University of North Carolina Wilmington, "Evaluation of Fasted and Fed Gastrointestinal Transformation of *Withania somnifera* Plant Extracts and Bioactive Compounds via UPLC-MS/MS and Untargeted Metabolomics."

11:10-11:30 **Maël Gainche**, Clermont Auvergne University, "Alkaloid Profiling of *Narcissus poeticus* L. Bulbs and Their Inhibitory Activity of Cholinesterases."

11:30-11:50 **Deepak Mundkinajeddu**, Natural Remedies Pvt Ltd., "Multi-Omics Systems-Guided Insights of Withanolide and Other Bioactives Contributions to Anti-Stress and Endurance Outcomes in *Withania somnifera*."

11:50-12:10 TBN

12:00-1:00

Lunch (OCC Cedar Room)

Session 14

OCC Auditorium

From Laboratory to Market: Ensuring Rigor, Reproducibility, and Integrity in Natural Products

Chair: **Mark Blumenthal**, American Botanical Council

1:00-1:30

Thomas Brendler, University of Illinois Chicago, "What Guides Natural Product Commercialization – Past and Present."

1:30-2:00

Adam Kuszak, National Institute of Health, "Promoting Progress in the Rigor, Reproducibility, and Translatability of Dietary Supplement Research."

2:00-2:30

Stefan Gafner, American Botanical Council, "Fifteen Years of the ABC-AHP-NCNPR Botanical Adulterants Prevention Program: What Have We Learned?"

6:30-8:30

Closing Ceremony & Banquet (OCC Cedar Room)