

Day 1

8:00-9:00 am Opening Onsite Registration-OCC Lobby

Opening Session-OCC Auditorium

9:00-10:30 am

Noel Wilkins, Provost, *University of Mississippi*-Welcome On Behalf Of The University Of Mississippi
 Ikhlas Khan, Director, *NCNPR, University Of Mississippi*-Welcome On Behalf Of The International Conference On The Science Of Botanicals
 WOCMAP-Introductory Remarks

Cara Welch, 30 Years of Science-Based Regulation for Dietary Supplements
 10:30-10:50 am Break

Session 1	30 Years of DSHEA Chair: Joe Betz, <i>Emeritus National Institute of Health</i>	OCC Auditorium		
10:35-11:00	Mark Blumenthal, <i>American Botanical Council</i> , HerbalGram at 40 Years: A Brief History of Issues and Milestones in the Evolution of the Modern Herb Movement			
11:00-11:25	Bill Giebler, <i>Nutrition Business Journal</i> , The U.S. Herbs & Botanicals market. The DSHEA years through a market-sizing lens			
11:25-11:50	Loren Israelsen, <i>UNPA</i> , Botanical Education In The U.S. In The Post-DSHEA Era (1994-2024)			
11:50-12:00	Conference Photography-Meet At OCC Side Patio Across From Cedar Room Dining Hall			
12:00-1:00	Lunch	OCC Cedar Room	12:00-1:00	Lunch
Session 2a	Harnessing African's Herbal Wisdom: A Global Health Perspective Michael Heinrich, <i>University of London</i>	OCC Auditorium	Session 2b	Nurturing Quality Of Botanicals Chair: Steven Dentali, <i>Dentali Botanical Sciences</i>
1:00-1:30	Ben-Erik Van Wyk, <i>University of Johannesburg</i> , The True History Of Aloes And Beyond		1:00-1:15	James Harnley, <i>United States Department of Agriculture</i> , One-Class Modeling For The Authentication Of <i>Actaea racemosa</i> And Evaluation Of The Variation Between Botanical Reference Materials
1:30-2:00	David Katerere, <i>Tshwane University of Technology</i> , African & Carribean Herbal Pharmacopieae-Curating Data For Product Development		1:15-1:30	Maria Monagas, <i>United States Pharmacopeia</i> , Understanding Plant To Extract Ratios Of Botanical Extracts And Their Implications In Product Labeling
2:00-2:30	Alvaro Viljoen, <i>Tshwane University of Technology</i> , The Medicinal And Aromatic Flora Of South Africa - The Opportunity, Progress, And Challenges		1:30-1:45	Vincent P Sica, <i>Proctor & Gamble</i> , Characterization Of Ashwagandha Using A Multi-Detector Approach
2:30-3:00	Break		1:45-2:00	Brett Smith, <i>Young Living</i> , Challenges Of Building Specifications For Essential Oils: And Industry Persepective
Session 3a	Hiding In Plain Sight: Transparency In Botanical Supply Chains Chair: Jason Mulligan, <i>Eurofins</i>	OCC Auditorium	2:00-2:15	Sara Handy, <i>Food and Drug Administration</i> , Whole Genome Skimming To Gels: Development Of PCR Primers Targeting Toxic Plants In Support Of Food Safety
3:00-3:30	Cristina Amarillas, <i>Eurofins</i> , Plenary Session: Trends Of Testing Botanicals At Third Party Labs		2:15-2:30	Rahul Pawar, <i>Food and Drug Administration</i> , A Survey Of Melatonin In Dietary Supplement Products Sold In The US
3:30-4:00	John Travis, <i>NSF</i> , Adulteration - Why Does It Still Proliferate?		2:30-3:00	Break
4:00-4:30	Katarzyna Banaszewski, <i>Now Foods</i> , Preventing Ingredient Adulteration To Maintain Botanical Integrity		Session 3b	Unveiling The Power Of Botanicals Chair: Shabana Khan, <i>University of Mississippi</i>
			3:00-3:15	Nicole Stevens, <i>DoTERRA</i> , Evaluation Of A Lavender-Based Natural Product System For Sleep Support
			3:15-3:30	Rachel Mata, <i>University of Mexico</i> , Zopilote: A Selected Species for The Treatment Of Type 2 Diabetes Mellitus In Mexico
			3:30-3:45	Mark Hamann, <i>Medical University of South Carolina</i> , A Combination Of Clinical Studies With Chemical-Biochemical Informatics And Modeling To Arrive At The Active Pharmaceutical Ingredients Found In Botanical Supplements Using Frankincense As A Model
			3:45-4:00	Kashif Shamim, <i>University of Mississippi</i> , Immulina Enhances Immune Resilience Against Influenza In Mouse Models
			4:00-4:15	Smita Mishra, <i>University of Delhi</i> , Enrichment Of <i>Glycyrrhiza glabra</i> Root Extract For Phytopharmaceutical Ingredient Development As An Anti-Diabetic Drug Candidate
Session 4	2nd Annual JD McChesney Seminar Chair: JD McChesney, <i>Cloaked Therapeutics, LLC</i>	OCC Auditorium		
4:30-5:30	Steve Duke, <i>University of Mississippi</i> , Natural Productrs In Food And Agriculture			
6:00-8:00	Reception/Mixer -Award Presentation: Outstanding Contribution In Natural Product (The Lyric 1006 Van Buren Ave., Oxford, MS 38655)			

Day 2

Session 5: The Nutrition Continuum And Whole Person Health-OCC Auditorium

Session Chair: **Ikhlas Khan, University of Mississippi**

8:00-8:30 am

Helene Langevin-National Center for Complementary and Integrative Health, The Nutrition Continuum And Whole Person Health

Session 6: Update And Future Perspectives From The FDA-OCC Auditorium

Session Chair: **Gregory Noonan, Food and Drug Administration**

8:30-10:00 am

Steven Musser, Food and Drug Administration, Research Gaps Limiting The Use Of New Alternative Methods (NAMs) In CFSAN's Regulatory Mission

Betsy Jean Yakes, Food and Drug Administration, What's Old Is New Again And Other Changes To Ingredients - Insights From The FDA

Troy Hubbard, Food and Drug Administration, Introduction To The Premarket Review Of Human Food Ingredients In The United States And Concepts In The Safety Assessment Of Novel Plant-Derived Ingredients
10:00-10:30 am Break

Session 7a	IND: When And Why They Matter Chair: Gailen Marshall, University of Mississippi Medical Center Gailen Marshall, University of Mississippi Medical Center , TBN	OCC Auditorium	Session 7b	Afro-Caribbean Healing Plants Chair: Ben-Erik Van Wyk, University of Johannesburg Zella Palmer, Dillard University , Afro-Caribbean Influences on the American South	OCC Magnolia
10:30-10:50			10:30-10:50		
10:50-11:15	Cassandra Taylor, Food and Drug Administration , FDA Investigational New Drug (IND) Applications		10:50-11:10	Anthony Richards, Freelance/Denzil Phillips, Association of African Medicinal Plants Standards (AAMPS) and Global Frankincense Alliance (GFA) , From Slave Foods To Superfoods Chapter 2	
11:15-11:40	Nadina Jose, Rutgers University , Navigating the IND Process to Get your Clinical Trial Started: Know the Regulations!		11:10-11:30	Sonia Peters, BERP , Revisiting The Dependence On Indigenous Plant Resources To Inform Interventions For The SARS-COV-2 Pandemic	
11:40-12:00	Question & Answer Session		11:30-11:50	Thera Edwards, University of West Indies , African Plants In Jamaican Farms And Gardens	
			11:50-12:05	Panel Discussion	
12:00-1:00	Lunch	OCC Cedar Room	12:00-1:00	Lunch	OCC Cedar Room
Session 8a	Uncovering Ingredients In Dietary Supplements Chair: Brian Schaneberg, Illinois Tech Institute for Food Safety and Health Shannon Aldrich, Food and Drug Administration , FDA/ORA Health Fraud Updates	OCC Auditorium	Session 8b	Natural Products Sustainability And Bioeconomy Chair: Umesh Patil, Dr. Harisingh Gour Vishwavidyalaya Thomas Effert, University of Mainz , Cold-Water Extraction Of Nerium oleander Leaves Inhibits Cancer: From Bench To Bedside Bhushan Patwardhan, Savitribai Phule Pune University , An Overview Of Ayush Research In India	OCC Magnolia
1:00-1:25			1:00-1:30		
1:25-1:50	Andrea Lindsey, The Consortium for Health and Military Performance , Uncovering Dietary Supplement Ingredients: Education For Informed Use		1:30-2:00		
1:50-2:15	Victor Navarro, Jefferson Health , The Clinical Implications of Unlabeled Ingredients in Dietary Supplements		2:00-2:30	Gaia Scalabrino, Trinity College Dublin , Natural Products Ireland: From Bioactives To The Bioeconomy-A Systems-Based Approach	
2:15-2:30	Question & Answer Session		2:30-2:50	Break	
2:30-2:50	Break				
Session 9	Botanical Dosage Forms: Disintegration and Dissolution Challenges Chair: Adam Kuszak, National Institute of Health Bill Gurley, University of Mississippi , Dosage Form Performance Assessment Of Commercially-Available Soft Gel Capsules Containing Essential Oils	OCC Auditorium			
2:50-3:15					
3:15-3:40	Natalia Davydova, United States Pharmacopeia , USP Resources for Performance Testing Of Botanical Dietary Supplement Dosage Forms				
3:40-3:50	Question & Answer Session				
Session 10	Essential Oils: Global Trades And Obstacles In Substantiating Claims Chair: John Cavallo, Citromax Fatih Demirci, Anadolu University , In-vitro & in-silico enzyme inhibitions by essential oils	OCC Auditorium			
3:50-5:20	Russ Osguthrope, DoTERRA , Current Obstacles Relating To Substantiating Essential Oil Dietary Supplement Claims And Proposed Solutions Gyorgyi Horvath, University of Pecs , Biological Activity Of Essential Oils - Focus On Antibiotic Resistance				
5:30-8:00	POSTER SESSION Chair: Amar Chittiboyina, University Of Mississippi	OCC Auditorium	5:30-8:00	POSTER SESSION Chair: Amar Chittiboyina, University Of Mississippi	
6:00-8:00					

Dinner-OCC Cedar Room

Day 3

Session 11a	Cannabis: Current Status And Future Outlook OCC Auditorium	Session 11b	Latest News On The Global Frankincense Scene OCC Magnolia
8:30-8:40	Chair: Larry Walker, Emeritus University of Mississippi Cassandra Taylor, Food and Drug Administration , Opening Remarks	8:30-8:50	Chair: Deniz Phillips, Association of African Medicinal Plants Standards (AAMPS) and Global Frankincense Alliance (GFA) Anjanette De Carlo, University of Vermont/Denzil Phillips, Association of African Medicinal Plants Standards (AAMPS) and Global Frankincense Alliance (GFA) , Conservation Status Of Frankincense With Special Reference To Recent CITES Review And Recommendations
8:40-9:05	Patrick Cournoyer, Food and Drug Administration , A New Way Forward For Cannabidiol (CBD) And Other Hemp Products	8:50-9:10	Abdul Latif Khan, University of Houston , Frankincense Tree Genomics And Resin Synthesis Pathway
9:05-9:30	Tahmina Khan, Food Standards Agency , A Provisional ADI for CBD - The UK assessment experience	9:10-9:30	Stephen Johnson, FairSource Botanicals , Leveraging Technology To Improve Governance And Impact In Frankincense Value Chains
9:30-10:00	Marilyn Huestis, Thomas Jefferson University , Short & Long-Term Consequences Of Cannabis Intake & Differences Between Occasional & Chronic Frequent Cannabis Use	9:30-9:50	Thomas Brendler, Plantaphile/Tony Cunningham, Murdoch University , The State Of Indian Frankincense - An Update
		9:50-10:05	Panel Discussion
		10:00-10:30 am	Break
Session 12a	Korean Ginseng: Safety, Efficacy And Neuroprotective Insights OCC Auditorium	Session 12b	Navigating NDI Notifications OCC Magnolia
10:30-11:00	Chair: Seikwan Oh, Ewha Womans University Laurie Dolan, GRAS Associates , Safety In Use Of Korean Red Ginseng Extract As A Dietary Supplement And Food Ingredient: A Review Of Pre-Clinical, Clinical, And Traditional Use	10:30-11:00	Chair: Gregory Noonan, Food and Drug Administration Shontell Wright, Food and Drug Administration , New Dietary Ingredient Notifications: A Key Step Prior To Launching A New Dietary Supplement In The United States
11:00-11:30	Yuan Shiun Chang, China Medical University , Antifatigue, Memory Enhancing and Blood Circulation Effects of Korean Red Ginseng	11:00-11:30	Rebecca Adams, NSF , Setting The Standard: Expert Insights On Best Practices And Safety Considerations For New Dietary Ingredient (NDI) Notifications
11:30-12:00	Seung-yeol Nah, Konkuk University , Gintonin, Korean ginseng-Derived LPA Receptor Ligand, Alleviates Memory Dysfunctions via Non-Amyloidogenic Pathway and Blood-Brain Barrier Protections in Alzheimer's Disease Animal Model	11:30-12:00	Question & Answer Session
12:00-1:00	Lunch OCC Cedar Room	12:10-1:00	Lunch OCC Cedar Room
Session 13a	MoCRA: The Intersection Of Science And New Cosmetic Regulations OCC Auditorium	Session 13b	Sustainable Crop Quality Assurance Amid Climate Change OCC Magnolia
1:00-1:30	Chair: Rick Kingston, Safety Call Rick Kingston, Safety Call , Impact Of MoCRA On Monitoring Botanical Safety	1:00-1:15	Chair: Alvaro Viljoen, Tshwane University of Technology MavisHong-Yu Yik, The Chinese University of Hong Kong , HerBChain, A Blockchain-Based Informative Platform For Quality Assurance And Enhancing The Market Share Of Herbal Products
1:30-2:00	Jannavi Srinivasan, Food and Drug Administration , Session E Overview of the U.S. Cosmetics Regulatory Framework	1:15-1:30	Deshaun Rai, OmniActive , Coming Full Circle On Sustainability -A Case Study Of The Alpinia galanga And Tagetes erecta Botanical Extracts
2:00-2:30	Brandt Reinbold, NSF , MoCRA And The New Cosmetics GMPs	1:30-1:45	Constance M Maxwell, New Mexico Water Resources Research Institute , Future Crops For An Increasingly Arid New Mexico: A Crop Selection Protocol To Support Farmer Resilience To Climate Challenges With High Economic And Culturally Valuable Herb, Medicinal And Aromatic Crops
		1:45-2:00	Ahmad Al Rawahi, University of Nizwa , Frankincense: Bridging The Gap Between Research And Industry
3:30-5:00	ICSB Yard Games & Competition		
6:00-9:00	Bowling And Southern Fish & Chicken (Premier Lanes, 204 Commonwealth Blvd., Oxford, MS)		

Day 4

Session 14	The Science Behind Traditional Medicine Chair: Michael Smith, <i>ISURA</i>	OCC Auditorium		
8:30-9:00	Michael Heinrich, University of London , Herbal Medicines: We Care About Sustainability, But What Do We Need To Do To Get It Right.			
9:00-9:30	Dennis Chang, Western Sydney University , Development Of A Novel, Standardised Herbal Formula For The Treatment Of Vascular Dementia			
9:30-10:00	Bill Gurley, University of Mississippi , So, you think you know the NCNPR?			
10:00-10:30 am Break				
Session 15a	Advancing Botanicals Safety: New Approaches, Herb-Drug Interactions, And In Vitro vs. In Vivo Toxicological Insights Chair: Amy Roe, Proctor & Gamble	OCC Auditorium	Session 15b	The Importance Of Reference Standards Chair: Thomas Brendler, <i>University of Johannesburg</i>
10:30-11:00	Cynthia Rider, National Institute of Environmental Health Science , The Botanical Safety Consortium: Collaborative Effort to Improve Botanical Safety Methods		10:30-10:50	Thomas Brendler, University of Johannesburg , What Guides Natural Product Commercialization – Past And Present
11:00-11:15	Islam Husain, University of Mississippi , Screening Of Medicinal Herbs To Predict The Potential Perpetrators Of Herb-Drug Interaction		10:50-11:10	Adam Kuszak, National Institute of Health , New Natural Product Certified Reference Material Resources Supported By The NIH Office Of Dietary Supplements
11:15-11:30	Young Hee Choi, Dongguk University, Seoul , Multifaced Factors To Cause Conflictng Outcomes In Drug-Herb Interactions Mainly Focusing On Reverse Pharmacokinetics		11:10-11:30	Kirsten Tripplett and Melissa Daoust, Traditional Medicinals, Inc , Before The Monograph: Developing Novel Identity Methods For Botanical Ingredients
11:30-11:45	Angela Calderon, Auburn University , Evaluation Of Botanical Extracts For Cytochrome P450 Inhibition Mediated Drug Interaction		11:30-11:50	Cuiying Ma, United States Pharmacopeia , Water Determination For Plant Materials By Titrimetric Method
11:45-12:00	Siva Vanapalli, NemaLife Inc. , AI-Assisted Organism-On-Chip Platform For Evaluating The Quality Of Bothanical Herbs And For Bioactive Discovery			
12:00-1:00	Lunch	OCC Cedar Room		
Session 16	Mushrooms: Ensuring Authenticity And Quality Chair: Stefan Gafner, <i>American Botanical Council & Sanem Hosbas Coskun, National Institute of Health</i>	OCC Auditorium		
1:00-2:30	Chris Hobbs, University of Massachusetts , The Re-discovery of Fungi James Kababick, Flora Research , Authentication Of Commercial Mushroom Products Natascha Techen, University of Mississippi , Genetic Identification Of (Edible) Mushroom Species Arun Krishnamurthy, Purity IQ , Beyond Appearance: NMR Metabolomics For Mushroom Quality Assurance & Authenticity Julie Daoust, M2 Ingredients , Metabolite Profiling of Functional Fungi Strains Of <i>Hericium erinaceua</i> & <i>Cordyceps militaris</i> : Using Phenotypes, Untargeted Metabolomic By Mass Spectrometry And Cell-Based Assays			
2:30-3:30	ICMAP-General Assembly			
6:30 PM	Closing Ceremony & Banquet (OCC Cedar Room)			