

Day 1

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

Opening Session-OCC Auditorium

9:00-10:30 am

Ikhlas Khan, Director of National Center for Natural Products Research, University of Mississippi

Namrita Lall, ISE President

Donna Strum, Dean of the School of Pharmacy, University of Mississippi

John Higginbotham, Vice Chancellor of Research and Economic Development, University of Mississippi

Key Note Address: Daniel Edney, State Health Officer, Mississippi Department of Health

30 Years of NCNPR

10:30-10:50 am Break

Session 1	<b>Current Status and Future Outlook</b>	OCC Auditorium			
	Chair: <b>Mark Blumenthal</b> , <i>American Botanical Council</i>				
10:50-11:10	<b>Bill Giebler</b> , <i>Nutrition Business Journal</i> , "Herbs in Commerce: Sales Trends and Consumer Attitudes in the \$13 Billion U.S. Herbal Supplement Market"				
11:10-11:30	<b>Loren Israelsen</b> , <i>UNPA</i> , "TBA"				
11:30-11:50	<b>TBN</b>				
11:50-12:00	<b>Conference Photography</b> -Meet At OCC Side Patio Across From Cedar Room Dining Hall				
12:00-1:00	Lunch	OCC Cedar Room	12:00-1:00	Lunch	OCC Cedar Room
Session 2a	<b>Quality Control Conundrum</b>	OCC Auditorium	Session 2b	<b>Chromatographic Tools to Assess Quality</b>	OCC Magnolia
	Chair: <b>Brian Schaneberg</b> , <i>Illinois Tech Institute for Food Safet and Health</i>			Chair: <b>Paula Brown</b> , <i>British Columbia Institute of Technology</i>	
1:00-1:30	<b>Katie Banaszewski</b> , <i>Now Health Group</i> , "Rooted in Quality: Elevating Standards in Botanical Supplements"		1:00-1:15	<b>Maria Monagas</b> , <i>U.S. Pharmacopeia Convention</i> , "Innovative Integration of HPTLC and AI for Detecting Adulteration and Ensuring Quality in European Elder berry Products"	
1:30-2:00	<b>Cris Amarillas</b> , <i>Eurofins Botanicals</i> , "Moving from conundrum to solution. Understanding the riddle of data, supply chains and botanical complexity"		1:15-1:30	<b>Khanh Tran</b> , <i>Alkemist Labs</i> , "Foraging for Methods: The Right HPTLC Method for the Right Specs"	
2:00-2:30	<b>Andrew Shao</b> , <i>Chromadex</i> , "Supplement product quality woes: A call to action"		1:30-1:45	<b>James Kababick</b> , <i>Flora Research Laboratories</i> , "Simultaneous Botanical Identification and Marker Compound Assay by High Performance Thin Layer Chromatography"	
			1:45-2:00	<b>Rahul Pawar</b> , <i>Food &amp; Drug Administration</i> , "Validation of a UHPLC-MS/MS Method for the Quantification of Cannabinoids in Hemp-Derived Ingestible Products"	
			2:00-2:15	<b>Andres Navarette</b> , <i>Universidad Nacional Autónoma de México</i> , "Chemical profiling and quantification of flavones in several Pseudognaphalium and Gnaphalium species of Mexican gordolobo using UHPLC/PDA/MS"	
2:30-3:00	Break		2:30-3:00	Break	
Session 3a	<b>Emerging Challenges and Opportunies</b>	OCC Auditorium	Session 3b	<b>Authentication and Identity</b>	OCC Magnolia
	Chair: <b>TBN</b>			Chair: <b>Joe Betz</b> , <i>Emeritus National Institute of Health</i>	
3:00-3:30	<b>Victor Navarro</b> , <i>Einstein Healthcare Network</i> , "An Update from the U.S. Drug Induced Liver Injury Network and Plans for Sentinel Surveillance for Supplement Induced Liver Injury"		3:00-3:20	<b>Wendy Applequist</b> , <i>Missouri Botanical Gardens</i> , "Misidentification remains common in selected historically substituted Traditional Chinese Medicine herbs."	
3:30-4:00	<b>Bill Gurley</b> , <i>University of Mississippi</i> , "Dosage form performance assessment of four commercially available turmeric-containing dietary supplements to inform clinical study design."		3:20-3:40	<b>Anna Kreynes</b> , <i>North American Reishi</i> , "What is Chaga? Unique biochemistry of the sterile conk."	
4:00-4:30	<b>Sreenivas Rangan Sukumar</b> , <i>Hewlett Packard Enterprise</i> , "Artificial Intelligence in Natural Products Discovery: Opportunity, Optimism and Reality"		3:40-4:00	<b>Mengliang Zhang</b> , <i>Ohio University</i> , "Digitization of HPTLC chromatograms for chemometric analysis"	
			4:00-4:20	<b>Banaz Jalil</b> , <i>UCL School of Pharmacy, London</i> , "The pharmaceutical quality of herbal medicinal products and dietary supplements – Assessment of products from Lavandula species"	
Session 4		OCC Auditorium			
	Chair: <b>JD McChesney</b> , <i>Cloaked Therapeutics, LLC</i>				
4:30-5:30	<b>Rodney Rocconi</b> , <i>University of Mississippi Medical Center</i> , "TBA"				
6:00-8:00	<b>Reception/Mixer -Award Presentation: Outstanding Contribution In Natural Product (The Lyric-1006 Van Buren Avenue, Oxford, MS 38655)</b>				

Day 2

Update And Future Perspectives From The FDA

Moderator And Session Chair: **TBN**

8:30-10:00 am

**Greg Noonan**, *Food & Drug Administration*, "TBA"

**Hellen Oketch**, *Food & Drug Administration*, "Ensuring Authenticity: Best Practices for Botanical Constituent Evaluation"

**Cassandra Taylor**, *Food & Drug Administration*, "TBA"

10:00-10:30 am Break

<b>Session 6a</b>	<b>Ashwagandha: Evaluating its Safety in Human Consumption</b> Chair: <b>Thomas Brendler</b> , <i>University of Johannesburg</i>	OCC Auditorium	<b>Session 6b</b>	<b>Drug Discovery of Natural Products</b> Chair: <b>TBN</b>	OCC Magnolia
10:30-10:50	<b>Thomas Brendler</b> , <i>Plantaphile</i> , "Ashwagandha: is it safe? A review of the clinical evidence."		10:30-10:45	<b>Rachel Mata</b> , <i>Universidad Nacional Autónoma de México</i> , "Chemical, Nutritional, and Pharmacological Studies of "Ari""	
10:50-11:20	<b>Guenter Vollmer</b> , <i>TU Dresden</i> , "Evaluation of potential hormonal activities of Ashwagandha (Withania somnifera)"		10:45-11:00	<b>Julie Daoust</b> , <i>M2 Ingredients</i> , "Functional mushrooms supplementation as a prebiotic fibre impacting microbiome composition, the gut metabolome and impact on the intestinal epithelial barrier integrity"	
11:20-11:40	<b>Jo Barnes</b> , <i>University of Auckland</i> , "Publicly available online data from national adverse event reporting schemes: observations on cases involving 'ashwagandha'"		11:00-11:15	<b>Salome Mahlo</b> , <i>University of Limpopo</i> , "South African plants with potential applications in traditional medicine for wound healing"	
11:40-12:00	<b>Mukesh Summan</b> , <i>Kerry</i> , "Ashwagandha – Is it Safe? A Toxicologist's Perspective"		11:15-11:30	<b>Deshanie Rai</b> , <i>OmniActive Health Technologies</i> , "Caffeine-free plant-based nootropics: the evolving science and regulatory journey of Alpinia Galanga."	
			11:30-11:45	<b>Kashif Shamim</b> , <i>University of Mississippi</i> , "Assessing Andrographis paniculata for Antiviral Resilience: A Preclinical Study with Translational Relevance"	
			11:45-12:00	<b>Saad Harti</b> , <i>Legacy Healthcare</i> , "Efficacy and safety of a prescription botanical drug, cinainu, in pediatric alopecia areata: an international, double-blind, randomized, placebo-controlled, phase 2/3 trial"	
12:00-1:00	Lunch	OCC Cedar Room	12:00-1:00	Lunch	OCC Cedar Room
<b>Session 7a</b>	<b>Cannabinoids - Endo, Phyto, Psycho and Pseudo</b> Chair: <b>Larry Walker</b> , <i>Emeritus University of Mississippi</i>	OCC Auditorium	<b>Session 7b</b>	<b>Clinical Research and Herbal Medicine</b> Chair: <b>Mary Hardy</b> , <i>UCLA</i>	OCC Magnolia
1:00-1:30	<b>Jeffrey Block</b> , <i>Nurturing Nature Group Consultants</i> , "Perspectives on Clinical Cannabinoids: A Physician-Botanist's Insight to Therapeutic Applications"		1:00-1:30	<b>Amir Rafie</b> , <i>Valiance Clinical Research</i> , "A Randomized, Double-Blinded, Parallel, Placebo-Controlled Clinical Trial to Study the Effect and Safety of Korean Red Ginseng Extract Powder on Cardiovascular Health markers in Healthy Adults"	
1:30-2:00	<b>Larry Walker</b> , <i>Emeritus University of Mississippi</i> , "Cannabidiol and Other Minor Cannabinoids: Pharmacological Targets and Interactions with THC."		1:30-2:00	<b>Belinda Tan</b> , <i>People Science</i> , "Innovation Meets Rigor: A Case Study of Decentralized Clinical Trials in Consumer Health Research"	
2:00-2:30	<b>Mahmoud ElSohly</b> , <i>University of Mississippi</i> , "Intoxicating Cannabinoids and Impurities in Hemp-derived Products in US Markets"		2:00-2:30	<b>Hung-Rong Yen</b> , <i>China Medical University, Taiwan</i> , "Herbal Medicine for the Management of Asthma in Taiwan: Insights from Big Data, Laboratory Studies, and Clinical Research"	
2:30-3:00	Break		2:30-3:00	Break	
<b>Session 8a</b>	<b>MoCRA: Year in Review Post FDA Implementation and Future Directions</b> Chair: <b>Rick Kingston</b> , <i>Safety Call</i>	OCC Auditorium	<b>Session 8b</b>	<b>Advancing Botanical Safety</b> Chair: <b>Shabana Khan</b> , <i>University of Mississippi</i>	OCC Magnolia
	<b>Rick Kingston</b> , <i>Safety Call</i> , "Cosmetic Adverse Events and the Product Safety Landscape"		3:00-3:15	<b>Amy L. Roe</b> , <i>Procter &amp; Gamble Company</i> , "Advancing Botanical Safety Through Collaborative Innovation: Updates from the Botanical Safety Consortium"	
	<b>Jannavi Srinivasn</b> , <i>Food &amp; Drug Administration</i> , "TBA"		3:15-3:30	<b>Hunter Edwards</b> , <i>NemaLife Inc.</i> , "BioSeq: A molecular intelligence platform based on organism-on-chip technology for bridging data gaps between C. elegans and Humans"	
3:00-4:30	<b>Diane McEnroe</b> , <i>Sidley Austin LLP</i> , "Current Regulatory and Enforcement Landscape Under MoCRA"		3:30-3:45	<b>Igor Koturbash</b> , <i>University of Arkansas for Medical Sciences</i> , "Effects of caffeinated green tea extract and exercise in obese NZO/HILtJ mice"	
			3:45-4:00	<b>Sudip Mondal</b> , <i>VivoVerse</i> , "C. elegans-Based Assays To Identify The Health Benefits And Safe Doses Of Food Ingredients"	
			4:00-4:15	<b>Angela Calderon</b> , <i>Auburn University</i> , "Study of the mechanism of drug-induced toxicity produced by açai-anticancer drug interactions"	
5:30-8:00	<b>POSTER SESSION</b> Chair: <b>Amar Chittiboyina</b> , <i>University Of Mississippi</i>	OCC Cedar Room	5:30-8:00	<b>POSTER SESSION</b> Chair: <b>Amar Chittiboyina</b> , <i>University Of Mississippi</i>	OCC Cedar Room
6:00-8:00		Dinner-OCC Cedar Room			

Day 3

International Perspective

Moderator And Session Chair: **TBN**

8:30-10:00 am

**Helen Sheridan**, *Trinity College Dublin*, "Unlocking Nature's Pharmacy: Using hidden secrets from Post Famine Ireland to direct modern scientific exploration of Irish Bogland Species."

**Salvador Caniguala**, *University of Barcelona*, "The contribution of the European Pharmacopoeia to the quality control of herbal medicinal products"

**Alvaro Viljoen**, *Tshwane University of Technology*, "African traditional medicine – Challenges and opportunities in the globalization of an ancient healing modality"

10:00-10:30 am Break

<b>Session 10a</b>	<b>TBN</b>	OCC Auditorium	<b>Session 10b</b>	<b>Medicinal Botanicals of Korea and Thailand: Pharmacological Insights</b>	OCC Magnolia
10:30-11:00	Chair:		10:30-10:55	Chair: <b>Michael Smith, ISURA</b>	
11:00-11:30			10:55-11:20	<b>Minho Shong</b> , <i>Korea Advanced Institute of Science and Technology</i> , "Red Ginseng extract enhances mitochondrial function and alleviates immunosenescence in T cells"	
11:30-12:00			11:20-11:45	<b>Sasitorn Chusri</b> , <i>Mae Fah Luang University</i> , "Neuroprotective Potential of Thai Traditional Medicine and Medicinal Plant Extracts: Unveiling Anti-Inflammatory and Cognitive Benefits Against LPS-Induced Neuroinflammation"	
12:00-1:00	Lunch	OCC Cedar Room	12:00-1:00	Lunch	OCC Cedar Room
<b>Session 11</b>	<b>Access-Benefit-Sharing: quid agis and quo vadis?</b>	OCC Auditorium			
1:00-1:25	Chair: <b>Jon Wardle</b> , <i>Southern Cross University</i>				
1:25-1:50	<b>Damien Krichewsky</b> , <i>University of Bonn</i> , "Engaging ABS: an opportunity for sustainability transformation?"				
1:50-2:15	<b>Ulrich Feiter</b> , <i>Parceval(PTY) Ltd.</i> , "From Biopiracy to ABS Compliance"				
2:15-2:40	<b>Rupert Koopman</b> , <i>Rupertkoopman.com</i> , "Using a biodiversity hotspot : lessons from supporting the Wild fynbos flower harvesting trade"				
3:30-5:00	<b>Panel Discussion</b>				
6:00-8:00				<b>ICSB Yard Games &amp; Competition</b>	
				<b>Bowling And Southern Fish &amp; Chicken (Premier Lanes, 204 Commonwealth Blvd., Oxford, MS)</b>	

Day 4

Evidence-Based Ethnopharmacology: Global Perspectives on Botanical Science

Moderator And Session Chair: **Alvaro Viljoen**, *Tshwane University of Technology*

8:30-10:00 am

TBN

**De-an Guo**, *Shanghai Institute of Materia Medica*

**GN Qazi**, *Hamdard University*

10:00-10:30 am Break

Session 13a	<b>Science Behind Traditional Medicine</b>	OCC Auditorium	Session 13b	<b>Integrating Lab Data, Audits, Standards, and Research: The Path to Improving Cannabis and Hemp Product Quality</b>
10:30-12:00	<p>Chair: <b>Michael Heinrich</b>, <i>University of London</i></p> <p><b>Robin Marles</b>, <i>Emeritus Health Canada</i>, "Insights from Ethnobotanical Research in North America, Latin America, and West Africa Into the Phytochemical Quality, Pharmacokinetics, Pharmacodynamics, and Toxicology of Botanicals"</p> <p><b>Rudi Bauer</b>, <i>University of Graz</i>, "The relevance of gut microbiota for the activity of herbal drugs"</p> <p><b>Joanne Lee</b>, <i>Korean Red Ginseng Corp.</i> "Korea Ginseng Corporation: Ginseng Expertise Since 1899"</p>		10:30-12:00	<p>Chair: <b>Alena Rodriguez</b>, <i>S3 Collective</i></p> <p><b>Alena Rodriguez</b>, <i>S3 Collective</i></p> <p><b>Yasha Kahn</b>, <i>MCR Labs</i></p> <p><b>Robert Welch</b>, <i>The University of Mississippi</i></p> <p><b>Darwin Millard</b>, <i>Cannabis Science and Quality (CSQ)</i></p>
12:00-1:00	Lunch	OCC Cedar Room		
Session 14a	<b>Sense and Essence</b>	OCC Auditorium	Session 14b	<b>Botanical Drugs and Beyond</b>
1:00-1:20	<p>Chair: <b>Stefan Gafner</b>, <i>American Botanical Council</i></p> <p><b>Namrita Lall</b>, <i>University of Pretoria</i>, "African cosmetics: more than just oils. Case studies of cosmeceuticals from terrestrial and wetland environments in Southern Africa"</p>		1:00-1:20	<p>Chair: <b>TBN</b></p> <p><b>Charles Wu</b>, <i>Food &amp; Drug Administration</i>, "Regulatory Review Process and Update of Botanical Drug Development in the U.S."</p>
1:20-1:40	<b>Nicole Stevens</b> , <i>doTERRA</i> , "Ancient Wisdom, Modern Science: The Chemistry and Biochemistry of Copaiba Volatile Oil"		1:20-1:40	TBN
1:40-2:00	<b>Marco Leonti</b> , <i>University of Cagliari</i> , "How Taste Shaped the Use of Botanical Drugs"		1:40-2:00	TBN
2:00-2:20	<b>Prabodh Satyal</b> , <i>doTERRA</i> "Insights into the Degradation of Essential Oils: Mechanisms, Impacts, and Prevention Strategies"			
6:30 PM	Closing Ceremony & Banquet (OCC Cedar Room)			