

<div>Day 1</div> <div>8:00-9:00 am Opening Onsite Registration-OCC Lobby</div> <div>Opening Session-</div> <div>9:00-10:30 am</div> <div> <div> <div>Ikhlas Khan, <i>Director, NCNPR, University Of Mississippi</i> -Welcome On Behalf Of The International Conference On The Science Of Botanicals</div> <div>WOCMAP-Introductory Remarks</div> <div>Donna West-Strum, <i>Dean and Executive Director, School of Pharmacy, University of Mississippi</i> -Welcome On Behalf Of The University Of Mississippi, School Of Pharmacy</div> <div>Cara Welch, 30 Years of Science-Based Regulation for Dietary Supplements</div> </div> <div>10:30-10:50 am Break</div> </div>			
Session 1	<div>30 Years of DSHEA</div> <div>Chair:</div> <div> <div>10:50-11:10</div> <div>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</div> <div>11:10-11:30</div> <div>Bill Giebler, <i>Nutrition Business Journal</i>, The U.S. Herbs & Botanicals market. The DSHEA years through a market-sizing lens</div> <div>11:30-11:50</div> <div>Loren Israelsen , <i>UNPA</i>, Botanical Education In The U.S. In The Post-DSHEA Era (1994-2024)</div> </div> <div>Conference Photography-Meet At OCC Side Patio Across From Cedar Room Dining Hall</div> <div>11:50-12:00</div> <div>Lunch</div>		
Session 2a	<div>Harnessing African's Herbal Wisdom: A Global Health Perspective</div> <div>Chair:</div> <div> <div>1:00-1:30</div> <div>Ben-Erik Van Wyk, <i>University of Johannesburg</i>, The True History Of Aloes And Beyond</div> <div>1:30-2:00</div> <div>David Katerere, <i>Tshwane University of Technology</i>, African & Carribean Herbal Pharmacopieae-Curating Data For Product Development</div> <div>2:00-2:30</div> <div>Alvaro Vijoen, <i>Tshwane University of Technology</i>, The Medicinal And Aromatic Flora Of South Africa – The Opportunity, Progress, And Challenges</div> </div> <div>Break</div>	Session 2b	<div>Nurturing Quality Of Botanicals</div> <div>Chair:</div> <div> <div>1:00-1:15</div> <div>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</div> <div>1:15-1:30</div> <div>Maria Monagas, <i>United States Pharmacopeia</i>, Understanding Plant To Extract Ratios Of Botanical Extracts And Their Implications In Product Labeling</div> <div>1:30-1:45</div> <div>Vincent P Sica, <i>Proctor & Gamble</i>, Characterization Of Ashwagandha Using A Multi-Detector Approach</div> <div>1:45-2:00</div> <div>Brett Smith, <i>Young Living</i>, Challenges Of Building Specifications For Essential Oils: And Industry Persepective</div> <div>2:00-2:15</div> <div>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</div> <div>2:15-2:30</div> <div>Rahul Pawar, <i>Food and Drug Administration</i>, A Survey Of Melatonin In Dietary Supplement Products Sold In The US</div> <div>2:30-3:00</div> <div>Break</div> </div>
Session 3a	<div>Hiding In Plain Sight: Transparency In Botanical Supply Chains</div> <div>Chair:</div> <div> <div>3:00-3:30</div> <div>Cristina Amarillas, <i>Eurofins</i>, Plenary Session: Trends Of Testing Botanicals At Third Party Labs</div> <div>3:30-4:00</div> <div>John Travis, <i>NSF</i>, Adulteration - Why Does It Still Proliferate?</div> <div>4:00-4:30</div> <div>Katarzyna Banaszewski, <i>Now Foods</i>, Preventing Ingredient Adulteration To Maintain Botanical Integrity</div> </div>	Session 3b	<div>Unveiling The Power Of Botanicals</div> <div>Chair:</div> <div> <div>3:00-3:15</div> <div>Nicole Stevens, <i>DoTERRA</i>, Evaluation Of A Lavender-Based Natural Product System For Sleep Support</div> <div>3:15-3:30</div> <div>Rachel Mata, <i>University of Mexico</i>, Zopilote: A Slected Species Of The Treatment Of Type 2 Diabetes Mellitus In Mexico</div> <div>3:30-3:45</div> <div>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</div> <div>3:45-4:00</div> <div>Kashif Shamim, <i>University of Mississippi</i>, Immulina Enhances Immune Resilience Against Influenza In Mouse Models</div> <div>4:00-4:15</div> <div>Smita Mishra, <i>University of Delhi</i>, Enrichment Of Glycyrrhiza glabra Root Extract For Phytopharmaceutical Ingredient Development As An Anti-Diabetic Drug Candidate</div> </div>
Session 4	<div>2nd Annual JD McChesney Seminar</div> <div>Chair: JD McChesney, <i>Cloaked Therapeutics, LLC-</i></div> <div> <div>4:30-5:30</div> <div>Steve Duke, <i>University of Mississippi</i>, Natural Productrts In Food And Agriculture</div> </div> <div>6:00-8:00</div> <div>Reception/Mixer -Award Presentation: Outstanding Contribution In Natural Product (The Lyric 1006 Van Buren Ave., Oxford, MS 38655)</div>		

Day 2	
Session 5: Session Chair: 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" Session Chair: 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 WhyThey Matter Chair: Gailen Marshall, University of Mississippi Medical Center, TBN	Sessioni 7b	Afro-Caribbean Healing Plants Chair: Robert Voeks, Fullerton College, Out Of Africa: Ethnobotanical Conversations In The Black Atlantic Thera Edwards, University of West Indies, African Plants In Jamaican Farms And Gardens Sonia Peters, BERP, Revisiting The Dependence On Indigenous Plant Resources To Inform Interventions For The SARS-COV-2 Pandemic
10:30-10:45			
10:45-11:10	Cassandra Taylor, Food and Drug Administration, FDA Investigational New Drug (IND) Applications		
11:10-11:35	Nadina Jose, Rutgers University, Navigating the IND Process to Get your Clinical Trial Started: Know the Regulations!	10:30-12:00	Anthony Richards, Freelance, From Slave Foods To Superfoods Zella Palmer, Dillard University, Afro-Caribbean Influences on the American South
11:35-12:00	Question & Answer Session		
12:00-1:00	Lunch	12:00-1:00	Lunch
Session 8a	Uncovering Ingredients In Dietary Supplements Chair: Shannon Aldrich, Food and Drug Administration, FDA/ORA Health Fraud Updates Jason Humbert, Food and Drug Administration, FDA/ORA Health Fraud Updates	Session 8b	Natural Products Sustainability And Bioeconomy Chair: TBN
1:00-1:20		1:00-1:20	
1:20-1:40		1:20-1:40	Michael Heinrich, University of London , Herbal Medicines: We Care About Sustainability, But What Do We Need To Do To Get It Right.
1:40-2:00	Andrea Lindsey, The Consortium for Health and Military Performance, Uncovering Dietary Supplement Ingredients: Education For Informed Use	1:40-2:00	Gaia Scalabrino, Trinity College Dublin, Natural Products Ireland: From Bioactives To The Bioeconomy-A Systems-Based Approach
2:00-2:30	Break	2:20-2:30	Break
Session 9	Botanical Dosage Forms: Disintegration and Dissolution Challenges Chair: Bill Gurley, University of Mississippi, Dosage Form Performance Assessment Of Commercially-Available Soft Gel Capsules Containing Essential Oils Natalia Davydova, United States Pharmacopeia, USP Resources for Performance Testing Of Bothanical Dieteary Supplement Dosage Forms		
2:30-3:00			
3:00-3:30			
Session 10	Essential Oils: Global Trades And Obstacles In Substantiating Claims Chair: K. Husnu Can Baser, Global Trade Of Essential Oils 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		
3:30-5:00			
5:30-8:00	POSTER SESSION Chair: Amar Chittiboyina, University Of Mississippi	5:30-8:00	POSTER SESSION Chair: Amar Chittiboyina, University Of Mississippi
6:00-8:00			

Day 3			
Session 11a	Cannabis: Current Status And Future Outlook Chair: 8:30-8:40 Cassandra Taylor, <i>Food and Drug Administration</i> , Opening Remarks 8:40-9:05 Patrick Cournoyer, <i>Food and Drug Administration</i> , A New Way Forward For Cannabidiol (CBD) And Other Hemp Products 9:05-9:30 Tahmina Khan, <i>Food Standards Agency</i> , A provisional ADI for CBD – The UK assessment experience 9:30-10:00 Marilyn Huestis, <i>Thomas Jefferson University</i> , Short & Long-Term Consequences Of Cannabis Intake & Differences Between Occasional & Chronic Frequent Cannabis Use	Session 11b	Latest News On The Global Frankincense Scene Chair: Anjanette De Carlo, <i>University of Vermont</i> , Conservation Status Of Frankincense With Special Reference To Recent CITES Review And Recommendations Abdul Latif Khan, <i>University of Houston</i> , Frankincense Tree Genomics And Resin Synthesis Pathway 8:30-10:00 Stephen Johnson, <i>FairSource Botanicals</i> , Leveraging Technology To Improve Governance And Impact In Frankincense Value Chains Thomas Brendler, <i>Plantaphile</i> , The State Of Indian Frankincense – An Update
10:00-10:30 am Break			
Session 12a	Korean Ginseng: Safety, Efficacy And Neuroprotective Insights Chair: 10:30-11:00 Laurie Dolan, <i>GRAS Associates</i> , Safety In Use Of Korean Red Ginseng Extract As A Dietary Supplement And Food Ingredient: A Review Of Pre-Clinical, Clinical, And Traditional Use 11:00-11:30 Yuan Shiun Chang, <i>China Medical University</i> , Antifatigue, Memory Enhancing and Blood Circulation Effects of Korean Red Ginseng 11:30-12:00 Seung-yeol Nah, <i>Konkuk University</i> , Preparation of Red Ginseng Marc-Derived Gintonin and Its Application as a Skin Nutrient 12:00-1:00 Lunch	Session 12b	Navigating NDI Notifications Chair: 10:30-11:00 Shontell Wright, <i>Food and Drug Administration</i> , New Dietary Ingredient Notifications: A Key Step Prior to Launching a New Dietary Supplement in the United States 11:00-11:30 Rebecca Adams, <i>NSF</i> , Setting The Standard: Expert Insights On Best Practices And Safety Considerations For New Dietary Ingredient (NDI) Notifications 11:30-12:00 Question & Answer Session 12:10-1:00 Lunch
Session 13a	MoCRA: The Intersection Of Science And New Cosmetic Regulations Chair: 1:00-1:30 Rick Kingston, <i>Safety Call</i> , Impact Of MoCRA On Monitoring Botanical Safety 1:30-2:00 Jannavi Srinivasan, <i>Food and Drug Administration</i> , Session E Overview of the U.S. Cosmetics Regulatory Framework 2:00-2:30 Brandi Reinbold, <i>National Science Foundation</i> , MoCRA And The New Cosmetics GMPs 3:30-5:00 6:00-8:00	Session 13b	Sustainable Crop Quality Assurance Amid Climate Change Chair: 1:00-1:15 MavisHong-Yu Yik, <i>University of Hong Kong</i> , HerBChain, A Blockchain-Based Informative Platform For Quality Assurance And Enhancing The Market Share Of Herbal Products 1:15-1:30 Deshanie Rai, <i>OmniActive</i> , Coming Full Circle On Sustainability -A Case Study Of The <i>Alpinia galanga</i> And <i>Tagetes erecta</i> Botanical Extracts 1:30-1:45 Constance M Maxwell, <i>New Mexico Water Resources Research Institute</i> , 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, <i>University of Nizwa</i> , Frankincense: Bridging The Gap Between Research And Industry
ICSB Yard Games & Competition Bowling And Southern Fish & Chicken (Premier Lanes, 204 Commonwealth Blvd., Oxford, MS)			

Day 4			
Session 14a	<div>The Science Behind Traditional Medicine</div> <div>Chair:</div> <div>8:30-9:00 Bhushan Patwardhan, <i>Savitribai Phule Pune University</i>, An Overview Of Ayush Research In India</div> <div>9:00-9:30 Geetha Krishnan, <i>World Health Organization</i>, The Gujarat Declaration Principles And Overview Of The WHO-GTMC's Evidence Workstream</div> <div>9:30-10:00 De-an Guo, <i>Chinese Academy of Science</i>, Quality testing and quality data base construction of Chinese herbal medicines</div>	Session 14b	<div>Advancing Botanicals Safety: New Approaches, Herb-Drug Interactions, And <i>In Vitro</i> vs. <i>In Vivo</i> Toxicological Insights</div> <div>Chair:</div> <div>8:30-9:00 Cynthia Rider, <i>National Institute of Environmental Health Science</i>, The Botanical Safety Consortium: Collaborative Effort to Improve Botanical Safety Methods</div> <div>9:00-9:15 Islam Husain, <i>University of Mississippi</i>, Screening Of Medicinal Herbs To Predict The Potential Perpetrators Of Herb-Drug Interaction</div> <div>9:15-9:30 Young Hee Choi, <i>Dongguk University, Seoul</i>, Multifaced Factors To Cause Conflictitng Outcomes In Drug-Herb Interactions Mainly Focusing On Reverse Pharmacokinetics</div> <div>9:30-9:45 Angela Calderon, <i>Auburn University</i>, Evaluation Of Botanical Extracts For Cytochrome P450 Inhibition Mediated Drug Interaction</div> <div>Siva Vanapalli, <i>NemaLife Inc.</i>, AI-Assisted Organism-On-Chip Platform For Evaluating The Quality Of Bothanical Herbs And For Bioactive Discovery</div>
10:00-10:30 am Break			
Session 15a	<div>Natural Products Research: International Perspective</div> <div>Chair:</div> <div>10:30-11:00 Dennis Chang, <i>Western Sydney University</i>, Development Of A Novel, Standardised Herbal Formula For The Treatment Of Vascular Dementia</div> <div>11:00-11:30 Thomas Efferth, <i>University of Mainz</i>, Cold-Water Extraction Of Nerium oleander Leaves Inhibits Cancer: From Bench To Bedside</div> <div>11:30-12:00 TBN</div>	Session 15b	<div>The Importance Of Reference Standards</div> <div>Chair:</div> <div>10:30-10:50 Thomas Brendler, <i>Univrsity of Johannesburg</i>, What Guides Natural Product Commercialization – Past And Present</div> <div>10:50-11:10 Adam Kuszak, <i>National Institute of Health</i>, New Natural Product Certified Reference Material Resources Supported By The NIH Office Of Dietary Supplements</div> <div>11:10-11:30 Kirsten Tripplett and Melissa Daoust, <i>Traditional Medicinals, Inc</i> , Before The Monograph: Developming Novel Identity Methods For Botanical Ingredients</div> <div>Cuiying Ma, <i>United States Pharmacopeia</i>, Water Determination For Plant Materials By Titrimetric Method</div>
12:00-1:00	Lunch		
Session 16	<div>Mushrooms: Ensuring Authenticity And Quality</div> <div>Chair:</div> <div>1:00-2:30 <div>Chris Hobbs, <i>University of Massachusetts</i>, The Re-discovery of Fungi</div> <div>James Kababick, <i>Flora Research</i>, Authentication Of Commercial Mushroom Products</div> <div>Natascha Techen, <i>University of Mississippi</i>, Genetic Identification Of (Edible) Mushroom Species</div> <div>Arun Krishnamurthy, <i>Purity IQ</i>, Beyond Appearance: NMR Metabolomics For Mushroom Qulaity Assurance & Authenticity</div> <div>Julie Daoust, <i>M2 Ingredients</i>, 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</div> </div> <div>2:30-3:30 ICMAP-General Assembly</div>		
6:30 PM	Closing Ceremony & Banquet (OCC Cedar Room)		