

→ DNA Standards for Botanical Identification Workshop and Botanical ID Methodology Test Course

August 21-22, 2018



~FINAL AGENDA~



Day One: Tuesday, August 21, 2018

- 8:00 AM Registration & Coffee**
- 8:30 AM USP Welcome and Introduction of Keynote Speakers**
Gabriel Giancaspro, PhD., VP, Science-DS & Herbal Medicines, USP
- 8:45 AM Keynotes**
Damon Little, PhD., New York Botanical Gardens
Caroline Howard, PhD., British Pharmacopeia - National Institute for Biological Standards and Control
- 10:00 AM Networking Morning Break**
- 10:30 AM Session I – Industry Experiences and Regulatory Approaches**
Session Chair: Holly Johnson, PhD., American Herbal Products Association
- Industry Perspectives**
Pawel Rudzinski, Nature's Bounty
- Methods to Characterize Highly Processed Materials**
Zhengfei Lu, PhD., Herbalife
- Genomic Approaches Used by FDA to Investigate Botanicals**
Sara Handy, PhD., FDA
- Development and Validation of Real-time PCR Assays for Allergen Detection:
Examples in Peanut and Tree Nuts**
Caroline Puente-Lelievre, PhD., FDA
- 12:00 PM Networking Lunch**
- 1:00 PM Session II – Methodologies**
Session Chair: Sara Handy, PhD., FDA
- Guidelines for Assembling Biological Reference Materials (RM) and Validation of Methods for Molecular Diagnostic Identification of Botanicals**
Steven Newmaster, PhD., University of Guelph
- Quantification of Type I and Type II Errors in Genomic Assessment of Botanical Authentication**
David Erickson, PhD., DNA4Technologies
- Next-Generation Sequencing as a QA Tool**
Jesse Miller, PhD., NSF Authen Technologies
- New Approaches in Genetic Testing and Data Management for Botanicals:
A roadmap for viable genomic identification tests for QC applications.**
Roberto Pace, PhD., Indena and Stefano LoPriore, PhD., Hyris
- 2:30 PM Networking Afternoon Break**

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3:00 PM

Session III – Potential Solutions

Session Chair: Robin Marles, PhD., Chair, USP Botanical Dietary Supplements & Herbal Medicines Expert Committee

Globally Recognized Definition of Voucher Specimen

Wendy Applequist, PhD., Missouri Botanical Garden

Database of Molecular Sequences: GenBank and RefSeq

Karen Clark, PhD. and Barbara Robbertse, PhD, NCBI/NLM/National Institutes of Health

Selection of Molecular Markers to Distinguish Closely-related Species

Natascha Techen, PhD., University of Mississippi

Application of Molecular Techniques to Authenticate Herbal Medicine Granules

P-C. Shaw, PhD., The Chinese University of Hong Kong

4:30 PM

Discussion, Q&A / Summary

Session Chair: Joseph Betz, PhD., Member, USP Non-Botanical Dietary Supplements Expert Committee

5:00 PM

Adjourn

Day Two: Wednesday, August 22, 2018

8:00 AM

Registration & Coffee

8:30 AM

USP Welcome

Gabriel Giancaspro, PhD., VP, Science-DS & Herbal Medicines, USP

8:45 AM

Session IV – Need for Standards

Session Chair: Jeremy Stewart, PhD., Chair, USP Botanical Library Project Team

Learnings from the USP Project Team on Botanical Library for DNA-based Identification: Use of Orthogonal Test Methods

Nandu Sarma, PhD., and Ning Zhang, PhD., USP

Botanical Authenticity Interlaboratory Studies

Catherine (Kate) Rimmer, PhD., NIST and Holly Johnson, PhD., AHPA

Multitude of Methods: Guidelines to Compare Methods

Robert Hanner, PhD., University of Guelph

Steps Needed for Actionable DNA Data: Method Specificity & Certificates of Analysis

Tyler Daniels, Thorne Research

10:00 AM

Networking Morning Break

10:30 AM

Panel Discussion – Application of Standards

Moderator: Michael Ambrose, PhD., USP

12:00 PM

Workshop Wrap-up & Boxed Lunch