

15th Annual Conference Program

Innovation at the NHP/Food Interface

May 14th – 17th, 2018 (Guelph, ON)

FULL CONFERENCE PROGRAM

Tuesday May 15th, 2018

- 7:30 AM **Breakfast**
One-to-One Partnering
- 8:30 AM **Welcome by NHPRS President (Paula Brown)**
- 8:45 AM **Opening Plenary Session (Tieraona Low Dog)**
A Clinician's Perspective on Nutritional Supplements
- 9:45 AM **Coffee Break**

- 10:00 AM **Session 1 (Plenary):**
Respectful Use of Traditional Knowledge



Session Chair: Cory Harris (University of Ottawa)

- 10:00 AM **Chair's Introduction**
- 10:15 AM **Kate Davis** (Botanic Gardens Conservation International)
Who Came Up with This Idea? The Global Framework to Recognize the Contributions and Rights of Traditional Knowledge-Holders
- 10:45 AM **Holly Johnson** (American Herbal Products Association)
Ethnobotany and Traditional Knowledge in the Modern World
- 11:15 AM **Marie Provost** (Clef des Champs)
A Vision for Respectful Use of Traditional Knowledge
- 11:45 AM **Panel Discussion** (Moderated by Dr. Pierre Haddad, Université de Montréal)
- 12:00 PM **Lunch**
One-to-One Partnering Sessions
Open Poster Session

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1:30 PM

Session 2 (Plenary):
Cannabis



Session Chair: Lynda Balneaves (University of Manitoba)

1:30 PM

Chair's Introduction

1:40 PM

Mark Ware (McGill University)

Cannabis sativa: a drug, a natural health product, or something else?

2:10 PM

Ernie Small (Agriculture and Agri-Food Canada)

The Role of Agriculture in Supplying Nutritional, Medicinal, and Recreational Cannabis Products

2:40 PM

Jeremy Melanson (National Research Council of Canada)

Measurement Science for Enhanced Cannabis Testing

3:10 PM

Sharan Sidhu (Innovate Phytoceuticals)

Medical Cannabis: Regulatory updates, industry perspective and misconceptions.

3:25 PM

Brenna Boonstra (Cannabis Compliance/ NHP Consulting Inc.)

Forthcoming Regulatory Changes in the Cannabis/NHP Interface

3:40 PM

Panel Discussion (Moderated by Dr. Lynda Balneaves)

4:00 PM

Session 3:

Student Session: 3-Minute Thesis Competition

Session Chair: Bob Chapman (National Research Council of Canada)

5:00 PM

Open Poster Session

Wine and Cheese Reception

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Wednesday May 16th, 2018

- 7:30 AM **Breakfast**
One-to-One Partnering
- 8:30 AM **Opening Plenary Session 1 (Stephen Daniells)**
Global Trends at the NHP/Food Interface
- 9:15 AM **Opening Plenary Session 2 (Heather Boon)**
Natural Health Product Regulations: Past, Present and Future
- 10:00 AM **Coffee Break**

10:15 AM **Concurrent Session 4A**
NHP Regulatory Affairs



Session Chair: Krista Coventry (Canadian Association of Professionals in Regulatory Affairs)

- 10:15 AM **Matthew Bown** (Health Canada, NNHPD)
Modernizing the Regulation of Self-Care Products in Canada
- 10:40 AM **Lysanne Melanson** (Health Canada, NNHPD)
The Regulatory Framework for Natural Health Products in Canada
- 11:05 AM **Tania John** (Renew Life Canada)
Navigation of the Canadian Regulatory Framework for Products at the Food/NHP Interface
- 11:25 AM **Sharan Sidhu** (Innovate Phytoceuticals)
Case Study: Opportunities to make Evidence-based Health Statements
- 11:45 AM **Thomas Brendler** (Plantaphile)
E.U. regulations for herbal products: how do recent changes impact access to the E.U. market?

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10:15 AM **Concurrent Session 4B**
DNA-based Approaches and Applications

Session Chair: Bob Hanner (University of Guelph)

- 10:15 AM **Steven Newmaster** (True ID)
Current research innovations as the NHP Research Alliance
- 10:35 AM **David Erickson** (DNA4 Technologies LLC)
Metagenomic analysis of dietary supplement authenticity and complexity
- 10:55 AM **Darragh Clancy** (NSF International)
Next Generation Sequencing: A Fit-for-Purpose Tool in Managing Your Supply Chain
- 11:05 AM **Natalia Ivanova** (Canadian Centre for DNA Barcoding)
*Reference library for targeted SNP-based identification of *Cibotium barometz* using Next Generation Sequencing*
- 11:25 AM **Sidney Sudberg** (Alkemist Labs)
Equivalency of DNA sequencing vs. HPTLC chromatographic analysis vs. Botanical Microscopy methodologies for Botanical Identity: A Statistical Evaluation
- 11:45 AM **Caroline Puente** (U.S. Food and Drug Administration)
Using Chloroplast Genomes for the Development of DNA-based Methods for Allergenic Plants
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- 12:15 PM **Lunch**
Open Poster Session
One-to-One Partnering Sessions
- 1:15 PM **NHPRS Annual General Meeting**

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2:00 PM

Concurrent Session 5A:

**Exploring the Pathway from Innovation to
Commercialization at the NHP/Food Interface**



Session Chair: Shelley King (Natural Products Canada)

2:00 PM

Shelley King (Natural Products Canada)

Getting to Know Canada's Natural Product Commercialization Ecosystem

2:20 PM

Dana McCauley (University of Guelph)

How to Succeed as an Academic Entrepreneur

2:40 PM

Krista Coventry (Source Nutraceutical Inc.)

*Regulatory Considerations for NHP & Functional Food Commercialization in the
North American Health Products Marketplace*

3:00 PM

Susan Tandan (Gowlings LLC)

Intellectual Property Protection of NHP Innovations

3:20 PM

Paula Brown (BCIT)

Industry-Academic Partnerships: Opportunities for Innovation

3:35 PM

Kenna Whitnell (University of Guelph)

From Student Research to Commercialization: A Case Study

3:50 PM

Open Discussion

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2:00 PM

Concurrent Session 5B:
NHPs and Cancer



Session Chair: Jonathan Blay (University of Waterloo)

2:00 PM

Mary Hardy (George Washington University)

2:30 PM

Lynda Balneaves (University of Manitoba)

Moving Evidence to the Bedside: Natural Products in Cancer Care

3:00 PM

Jonathan Blay (University of Waterloo)

Actions of the Dietary Flavone Apigenin in the Context of Human Colorectal Cancer

3:20 PM

Siyaram Pandey (University of Windsor)

Targeting mitochondrial and oxidative stress vulnerability of cancer cells to induce apoptosis using natural compounds and extracts

3:40 PM

Paul Saunders (Canadian College of Naturopathic Medicine)

Cancer Treatment: Is There a Role for Homeopathy?

4:00 PM

Open Poster Session

One-to-One Partnering Sessions (4:00–5:00)

6:30 PM

Gala Dinner and Awards Ceremony

Rickey Yada (University of British Columbia)

Adventures at the Food/NHP Interface

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Thursday May 17th, 2018

- 7:30 AM **Breakfast**
One-to-One Partnering
- 8:30 AM **Opening Plenary Session (Marie-Claude Vohl)**
Genetic determinants of the plasma triglyceride response to an n-3 fatty acid supplementation in overweight adults.
- 9:30 AM **Coffee Break**

10:00 AM **Concurrent Session 6A:**
Functional Foods

Session Chair:

- 10:00 AM **Alison Duncan**, University of Guelph
Functional foods and human health: research opportunities and challenges
- 10:30 AM **Jennifer Barber**, Health Canada Food Directorate
Regulation of Supplemented Foods in Canada: Challenges and Evidence Gaps
- 11:00 AM **Fan Wang**, University of Guelph
Encapsulation of phytosterols and phytosterol esters in liposomes made with soy phospholipids by high pressure homogenization
- 11:30 AM **Alexey Dudnik**, Technical University of Denmark
Bacterial Hosts for Production of Bioactive Phenolics from Berry Fruits (BachBerry)
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- 12:00 PM **Lunch**
One-to-One Partnering Sessions

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10:00 AM **Concurrent Session 6B:**
Pharmacology and Pharmacognosy

Session Chair: Joe Betz (U.S. National Institutes of Health, Office of Dietary Supplements)

10:00 AM **Roy Golsteyn** (University of Lethbridge)

Prairie to Pharmacy Research Program: Investigation of Prairie Plants for Chemicals that Inhibit Vital Cellular Pathways

10:30 AM **Cory Harris** (University of Ottawa)

Yarrow by Parts: An ethnobotanical, pharmacological, and metabolomics analysis of one of North America's most important medicinal plants.

11:00 AM **Lee Ellis** (National Research Council)

Assessing the efficacy of Zebrafish seizure models for testing cannabinoids.

11:30 AM **Lukman Sarker** (Innovate Phytoceuticals)

Transition of traditional lavender EOs to the modern therapeutic practices

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12:00 PM **Lunch**

One-to-One Partnering Sessions

1:00 PM **Concurrent Session 7A:**
Product Quality

Session Chair: Paula Brown (BCIT)

1:00 PM **James Harnly** (US Department of Agriculture)

*Chemical and genetic characterization of Maca (*Lepidium meyenii*)*

1:30 PM **Stefan Gafner** (American Botanical Council)

Challenges in Determining Species Identity of Medicinal Plants: The Case of Euphrasia

1:55 PM **Joe Betz** (U.S. National Institutes of Health, Office of Dietary Supplements)

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Dehydropyrrolizidine Alkaloids in boneset (Eupatorium perfoliatum L.) and Three Related Species

2:20 PM **Fabrice Berrué** (National Research Council)

Quality Assurance of Foods and Functional Ingredients Using Quantitative NMR Methods and Chemometrics.

2:40 PM **Jin Changdong** (University of Alberta)

Classification of Cannabis Cultivars Marketed in Canada for Medical Purposes and Growth Trends of the North American Medical Cannabis Industry

1:00 PM **Concurrent Session 7B:**
NHPs in Disease Management

Session Chair: Roy Golsteyn (University of Lethbridge)

1:00 PM **Dr. Kim Bretz** (Fundamentals of Health)

Clinical Use of NHPs: Challenges in Gut Health and the Microbiota

1:30 PM **Dong-Seon Kim** (Korea Institute of Oriental Medicine)

Herbal Complex DKB114 for Hyperuricemia and Gout

1:55 PM **Simon Chiu** (University of Western Ontario)

Translating Curry Extract to Novel Therapeutic approach in schizophrenia: the emerging role of Epigenetics signaling

2:20 PM **Pierre Haddad** (Université de Montréal)

Non-polar solvent fractions of Opllopanax horridus stimulate muscle glucose uptake and inhibit hepatocellular glucose-6-phosphatase enzyme activity

2:40 PM **Airduin Khan** (University of Western Ontario)

Sublimed Sulfur (Sulmedol) for the Activation of Endogenous Lactase and Restoration of Lactose Tolerance

3:00 PM Conference Closes