

**Conference Program**  
14<sup>th</sup> Annual NHPRS of Canada  
**Beyond Tradition**  
Vancouver, BC  
May 8th – 11th, 2017

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**Monday May 8<sup>th</sup>, 2017**

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- 12:00 PM     **Waters Workshop**  
*“Frontier in Natural Products Research”*
- 3:00 PM     **Exhibitor Set-up**
- 4:00 PM     **Registration Opens**
- 6:00 PM     **Opening Reception**
- All conference participants are invited to attend the opening reception of NHPRS 2017

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**Tuesday May 9<sup>th</sup>, 2017**

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- 8:15 AM     **Welcome by NHPRS President, Paul Shipley**
- Opening Prayer**, Aaron Nelson-Moody (Tawx’sin Yexwulla) of the Squamish Nation
- Opening Plenary Session**
- 9:00 AM     **Jia Wei**, University of Hawai’i Cancer Centre  
*Gut Microbial-host Co-metabolism Links to Gastrointestinal Cancer*  
Dr. Roger’s Prize in Complementary and Alternative Medicine Lecture
- Deanna Gibson**, University of British Columbia  
*Factors Which Influence Microbiota Establishment and the Effect on Health*
- 10:00 AM     **Coffee and Networking Break**

## **Concurrent Session 1A: Regulatory Affairs Part 1 - Updates**

10:30 AM

**Loren Israelson**, UNPA

*New Dietary Ingredients Guidance – What You Need to Know*

**Amanda Moir**, NNHPD, Health Canada

*Proposed Regulatory Changes to Self-care Products*

**William Yan**, Food Directorate, Health Canada

*Health Canada's Update on Supplemented Foods, Regulatory Framework and the Healthy Eating Strategy*

## **Concurrent Session 1B: Industrial Innovations and Emerging Technologies**

10:30 AM

**Jimmy Yuk**, Waters Corporation

*Unraveling the Complexity of Traditional Medicines Using LC/MS Coupled with a Novel Informatics Platform*

**Brian Killday**, Bruker Biospin

*Cell Culture Media: NMR Approaches for Monitoring Composition, Stability, Nutrient Consumption, and Product Formation.*

**Ingrid Elisia**, BC Cancer Research Centre

*The Use of a Whole Human Blood Assay to Screen for Potential Immunomodulators*

**Xiu-Min Chen**, University of British Columbia

*How Does Tea Processing and Age of Leaf Affect Phenolic Content, Antioxidant and Anti-inflammatory Activities of Coffee Leaves?*

**Jinle Chen**, Zhongshan Zhongzhi Pharmaceuticals Co Ltd

*How Does Tea Processing And Age Of Leaf Affect Phenolic Content, Antioxidant And Anti-Inflammatory Activities Of Coffee Leaves?*

**Ken Cawkell**, Pennington Biomedical Research Center

*Clinical Study Results Of The Feasibility, Safety, And Tolerability Of Cerbella, Combination Of Highly Bioavailable Essential Fatty Acids, Panax Ginseng Extract, And Green Tea Catechins, On Cognitive Function And Functional MRI (fMRI) Activity In Middle Age And Older Healthy Adults*

- 12:30 PM      **Lunch**
- 1:30 PM      **Special Session: Neil Towers Award Lecture**
- Plenary Session: Personalized Nutrition**
- 2:00 PM      **Peter Jones**, Richardson Centre for Functional Foods & Nutraceuticals  
*TBA*
- Ahmed El Sohemy**, University of Toronto  
*TBA*
- 3:00 PM      **Coffee and Networking Break**
- Concurrent Session 2A: Regulatory Affairs Part 2 – Hot Topics**
- 3:30 PM      **Krista Coventry**, Source Nutraceutical Inc.  
*Regulatory Opportunities for Caffeinated Products in the Canadian Health Product Sector*
- Sharan Sidhu**, NHP Licensing Solutions  
*Natural Health Product Standards of Evidence and Health Claim Opportunities: A Case Study*
- Chuck Chang**, ISURA  
*GMO Testing in NHP Finished Products and Raw Materials*
- Panel Discussion (Speakers from Regulatory Affairs Sessions 1 & 2)**
- Concurrent Session 2B: Student Talks**
- 3:30 PM      **Student Talks**
- 4:45 PM      **NHPRS 2017 Board of Directors Meeting**
- 5:00 PM      **Poster Session**, Bruker Wine and Cheese Reception
- 6:30 PM      **Social Event: Brewery Tour, Canadian Craft Tours**
- 7:00 PM      **Conference Day 1 Ends**

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## Wednesday May 10<sup>th</sup>, 2017

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8:00 AM      **Bio-Partnering Session 1**

### **Plenary Session: Protecting Plants: The Role of Researcher & Industry Responsibility**

9:00 AM      **Danna Leaman**, Canadian Museum of Nature  
*Medicinal Plant Conservation & Diversity*

**Connie Kehler and Donna Fleury**, Saskatchewan Herb, Spice and  
Specialty Agriculture Association  
*Good Agriculture & Collection Practices*

10:00 AM      **Coffee and Networking Break**

### **Plenary Session: Botanical Authentication - Plants & DNA**

10:30 AM      **Wendy Applequist**, Missouri Botanical Garden  
*Plant ID Primer*

**Shilin Chen**, Institute of Chinese Materia Medica  
*DNA Barcoding for Herbal Medicine Identification*

**Natalya Ivanova**, Canadian Centre for Barcoding  
*Embracing & Understanding Biocomplexity of Herbal Supplements*

12:00 PM      **Lunch and NHPRS Annual General Meeting**

### **Concurrent Session 3A: Botanical Authentication - Reference Materials**

1:30 PM      **Ragu Subramnyam**, University of Guelph  
*Botanical References for DNA Testing*

**Rene de Vaumas**, Extrasynthese  
*GMO Testing in NHP Finished Products and Raw Materials*

**Rob O'Brien**, ISURA  
*User-qualified Reference Materials Development*

**Panel Discussion: Botanical Authentication Part 1 & 2**

## **Concurrent Session 3B: Cancer**

1:30 PM

**Paul Spagnuolo**, University of Guelph

*Dr. Roger's Prize in Complementary and Alternative Medicine Lecture*

**Ingrid Elisia**, BC Cancer Research Centre

*The Efficacy of Topical All Trans Retinoic Acid (Vitamin A) as a Treatment for Melanoma*

**Quan-xi Mei**, Guangzhou University of TCM

*Applications of Fresh Black Nightshade Fruit in Tumor Treatment*

**Zhipeng Qu**, Zhendong Pharmaceutical Research Institute

*Identification of Candidate Anti-cancer Molecular Mechanisms of Compound Kushen Injection Using Functional Genomics*

**Siyaram Pandey**, Zhendong Pharmaceutical Research Institute

*Targeting Metabolic And Oxidative Stress Vulnerability Of Cancer Cell To Induce Apoptosis*

3:00 PM

**Coffee and Networking Break**

## **Concurrent Session 4A: Botanical Authentication - Analytics**

3:30 PM

**Adam Kuszak**, NIH/ODS

*Critical Needs for Reference Materials & Methods: ODS Program Update*

**Holly Johnson**, Alkemist Labs

*Challenges in Testing Dietary Supplements-The Importance of Validation*

**Susan Murch**, University of British Columbia

*The Future of DNA Technology for Botanical Products*

**Jim Harnly**, USDA

*Chemometric Approaches for Characterizing & Authenticating Botanicals*

**Andrew Lewis**, Verity Analytics

*Screening for Saw Palmetto Adulteration by NMR*

## Concurrent Session 4B: Ethnobotany, Pharmacology & Traditional Medicine

3:30 PM

**Pierre Haddad**, University of Montreal

*Renal Protective Potential, Mechanism of Action and Identification of Bioactives from Antidiabetic Medicinal Plants of the James Bay Cree Traditional Pharmacopeia*

**Selvarani Vimalanathan**, University of British Columbia

*Echinacea Purpurea Extract Can Reverse Respiratory Virus Induced Secondary Bacterial Infection*

**Yang Ling**, Shanghai University of Traditional Chinese Medicine

*Discovery of Pentacyclic Triterpenoids as Potent and Selective Inhibitors Against Human Carboxylesterase 1*

**Hongxi Xu**, Shanghai University of TCM

*Pharmacological Studies on Bioactive Compounds from Garcinia Species*

**Roy Golsteyn**, University of Lethbridge

*Sesquiterpene Lactones, Isolated from the Canadian Prairie Plant, Gaillardia aristata (Blanket Flower), Induce Cell Cycle Arrest and a Novel Anti-Mitotic Spindle Activity in Human Cells*

**Nebal Eltanbouly**, University of Cairo

*Compositional, Rheological Analysis and Anticancer Activity of Mucilage Prepared From Colocasia Esculenta Corms Cultivated in Egypt and Its Comparative Evaluation as a Sustained Release Polymer*

5:00 PM

**Conference Day 2 Ends**

6:00 PM

**Gala Dinner and Awards Ceremony**

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**Thursday May 11<sup>th</sup>, 2017**

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8:00 AM      **Bio-Partnering Session 2**

**Plenary Session: Modernization of Pharmacopoeial Standards**

8:30 AM      **Robert Law**, HKCMMS      *TBA*

9:00 AM      **Zonghua Song**, Chinese Pharmacopoeia Commission  
*TBA*

9:30 AM      **Gabriel Giancaspro**, USP  
*USP Update: Modernization from Chemometrics to Cannabis*

10:00 AM      **Coffee and Networking Break**

**Medical Cannabis: Use, Regulation & Standards Development**

10:30 PM      **Roy Upton**, American Herbal Pharmacopoeia  
*Historical use of Development of AHP Cannabis Monograph*

**Donald MacPherson**, (Association)  
*Policy & Public Health - Implications for Cannabis Legalization*

12:00 PM      **Lunch**

**Medical Cannabis: Plant Science & Pharmacology**

1:30 PM      **Jon Page**, University of British Columbia  
*Unlocking the Genetics Secrets of Cannabis*

**Rob O'Brian**, USDA  
*The Developing Role of Advanced Analytical Chemistry in Cannabis Clinical Trials*

**Bob Chapman**, NRC  
*Assessing the Uptake Kinetics, Activity and Potential Interaction of Cannabinoid Mixtures*

**Melanie Kelly**, Dalhousie University  
*Lessons from Nature: Phytochemicals and ligands targeting G-Protein coupled cannabinoid receptors as potentials leads for drug discovery.*

3:00 PM **Coffee and Networking Break**

**Medical Cannabis: Clinical Research**

3:30 PM **Mamoud Elsohly** University of Mississippi  
*Evaluation of Cannabis Extracts for Epilepsy in the US: Status and Prospects in Mississippi*

**Zach Walsh**, University of British Columbia  
*Use of Cannabis in Treatment of PTSD*

**M.J. Milloy**, BC Centre for Excellence in HIV/AIDS  
*High-intensity Cannabis Use and HIV Clinical Outcomes*

**Melanie Kelly**, Dalhousie University  
*Ocular Inflammation and the Anti-Inflammatory Role of Cannabinoid Receptor*

**Panel Discussion**

5:00 pm **Conference Close**

*Thank you everyone for contributing to the success of this years' conference!*