

6th NHP Research Conference & Tradeshow

GATEWAY TO WELLNESS

Vancouver, February 18th – 21st, 2009

Preliminary Conference Program

Wednesday February 18th, 2009

3:00 pm Exhibitor and Scientific Poster Set-up

4:00 pm Registration Opens

6:00 pm **Networking
Reception**



ChromaDexTM

All conference participants are invited to an evening of fellowship to meet old friends and make new ones.

Thursday February 19th, 2009

8:00 am **Welcome by NHPRS President, Ann Eastman**

Conference Opening by Michelle Boudreau, Director General of Health Canada's Natural Health Products Directorate

8:30 am Opening Plenary Lecture

Michelle Boudreau, NHPD, Health Canada

dicentra^{inc.}

The Canadian Natural Health Products Regulations: Reflecting a Diverse Market Place

9:00 am Plenary Session 1: **Cultural Knowledge to Modern Healthcare**

Steven R. King, Napo Pharmaceuticals Inc.

Science Across Borders of Traditional Knowledge & Modern Practice

Raymond Obomsawin, National Aboriginal Health Organization

Traditional Plant Medicines: Historical Overview & Principles

10:00 am Nutrition Break

10:30 am

Plenary Session 2: **'Omics I' Nutrigenomics**

Ahmed El-Sohemy –University of Toronto
Human Genetic Variation and Response to Micronutrients

Jim Kaput, FDA/Center for Toxicological Research
Developing a Research Strategy for Personalizing Nutrition and Medicine

Ben Van Ommen –European Nutrigenomics Organization
Nutrigenomics in Health Claims

12:00 pm

Lunch

1:30 pm

Concurrent Sessions

A: Pharmacology & Toxicology

Moderator: **Pierre Haddad**, Université de Montréal, PQ

Brian Foster, Health Canada, Ottawa, ON
Natural Health Product Disposition

Diadelis Ramirez, National Centre for Quality Control of Drugs, Cuba
Pharmacogenetics and Herbal Medicines

Charles Cantrell, USDA-ARS, MS, USA
New Developments on Callicarpenal, an Arthropod Repellent Discovered from the Southern Folk Remedy

B: Good Agricultural & Collection Practices (GACPs)

The Canadian Herb, Spice and Natural Health Products Coalition (CHSNC) and American Herbal Products Association (AHPA) recognize the impact of good quality, safe and traceable raw and primary processed materials on finished product quality. This session will demonstrate the approach taken by each organization and provide an overview of their on-going collaborations.

Connie Kehler, Canadian Herb, Spice and NHP Coalition
Connecting the Dots between Safety, Quality Assurance and Traceability from Farm to Finished Product.

Edward J. Fletcher, Strategic Sourcing Inc., NC, USA
AHPA-AHP Good Agricultural Collection Practices for Herbal Raw Materials

3:00 pm

Nutrition Break

3:30 pm

Concurrent Sessions

C: Reference Materials

Moderator: **Joseph M. Betz**, Office of Dietary Supplements, NIH, USA

Michael Schwartz, PhytoLab GmbH & Co., Vestenbergsgreuth, Germany
Importance of the Quality of Reference Substances Applied in the Analysis of Herbal Products

Anthony Windust, INMS, NRC, Canada
Isolation, Purification and Purity Determination of Primary Calibrators for Natural Health Products Research and Quality Control

Michael Quilliam, Institute for Marine Biosciences, NRC, Canada
Stability Testing and Quantitation of Certified Reference Materials

Frank Jaksch, ChromaDex inc, CA, USA
Evidentiary Standards & Documentation for Calibration Standard Quality

Catherine A. Rimmer, US National Institute of Standards & Technology
NIST Tools for Dietary Supplement Analysis

D: Cancer

Moderator: **Emma Tomlinson Guns**, Dept. of Urological Sciences, UBC

Mitali Pandey, The Prostate Centre, VGH
Molecular mechanisms of GSTP1 reactivation by green tea polyphenols in LNCaP cells

Alison Buckner, Biomolecular Sciences, Laurentian University
A role for flaxseed oil in chemotherapy: Enhancing taxol-mediated cell death

David G. Popovich, National University of Singapore
*The effect of *Panax quinquefolius* and *Glycyrrhiza uralensis* Root Extract Combination on Cultured Hepatocarcinoma Cell Viability*

Vinti Goel, CV Technologies Inc., Edmonton, Alberta
Augmentation of anti-cancer immunity generated in infant mice by injection of a ginseng extract, is maintained in adulthood long after extract withdrawal

Alok Pal Jain, SRIT-Pharmacy, Jabalpur M.P. India

Rubia cordifolia: A immunoprotecting boon in anticancer therapy

Emma Tomlinson Guns, Department of Urological Sciences, UBC

Can daily pomegranate extract impact the growth of prostate cancer in a cohort of men awaiting radical prostatectomy ? A Randomized Placebo Controlled Clinical Trial underway.

5:00 pm Poster Session

6:00 pm Conference Day 1 Ends

Friday February 20th, 2009

8:30 am Plenary Session 3: **TCM - Today & Tomorrow**

De-an Guo, Shanghai Research Center for TCM Modernization
Modern Research and New Drug Development of Traditional Chinese Medicine

Edward Lui, University Western Ontario
Title to be announced.

Junzeng Zhang, Institute for Nutrisciences & Health, NRC
Chinese Dietary Herbs and their Bioactive Components: 1998-2008 Research Highlights

10:00 am Nutrition Break

10:30 am Plenary Session 4: **'Omics II' Proteomics & Metabolomics**

Christoph Borchers, University of Victoria, BC
Title to be Confirmed.

Chris Evelo, BiGCat, Maastricht University, The Netherlands
Wikipathways and PathVisio

12:00 pm Lunch

NHPRS 2009 Annual General Meeting

NHP RESEARCH
Society of Canada



Société Canadienne de
RECHERCHE PSN

1:30 pm

Concurrent Sessions

E: Cardiovascular Disease & Diabetes

Moderator: **Vlad Vuksan**, St Michael's Hospital & University of Toronto

Peter J. Jones, University of Manitoba, Winnipeg, MN

Policosanols as Nutraceuticals: Fact or Fiction

Yanwen Wang, Institute for Nutrisciences & Health, NRC

A Potentially New Generation of Natural Products for Lowering Blood Lipids

Sedigheh Asgary, Isfahan Cardiovascular Research Center, Iran

Effects of hydroalcoholic extract of Hypericum Perforatum on selected traditional and novel biochemical risk factors of cardiovascular diseases and atherosclerotic lesions in hypercholesterolemic rabbits: a comparison with lovastatin

Alexandra Jenkins, St Michael's Hospital, Toronto, ON

Reductions in Postprandial Glycemia and Insulinemia by the Novel Viscous Fiber, PGX™: Assessment of Mechanisms of Action

Karmin O, St. Boniface Hospital Research Centre, AAFC

Protective Effect of Natural Products against Oxidative Stress Induced Tissue Injury

Elena Jovanovski, St Michael's Hospital, Toronto, ON

Comparable Dose-Response Glucose Lowering Effect with Whole vs Finely Ground, Novel Omega-3 rich Grain Salba (Salvia Hispanica L) Baked into White Bread

F: Neurobiology & Mental Health

Moderator: **Praveen Saxena**, University of Guelph, ON, Canada

Praveen Saxena, University of Guelph

Melatonin in Medicinal Plants

Martha Mullally, University of Ottawa

Anxiolytic activity of a Super critical CO₂ extract of Souroubea gilgii: Evidence for interaction with the GABA_A-BZD Receptor

Joseph M. Betz, Office of Dietary Supplements, NIH

Safety, Causality, and Association: Challenges in Investigating Adverse Events

3:00 pm

Nutrition Break

3:30 pm

Concurrent Sessions

G: Infection & Immunity

Moderator: **Charles Cantrell**, USDA-ARS, MS, USA

James B. Hudson, University of British Columbia

Echinacea: From Folklore to Scientific Validation

Jill Moore, Dalhousie University

Enhancement of Host Defense against *Mycobacterium tuberculosis* (Mtb) using an Aqueous Extract of *Echinacea purpurea*

Liset Maldonado Alvarez, Brock University

Canadian Therapeutic Honey: Structure- function analyses between some physical-chemical parameters and its antibacterial activity

Brendan Walshe-Roussel, University of Ottawa

Immunomodulatory activity and phytochemical profiling of Eeyou Istchee Cree anti-diabetic botanical therapies: Comparing traditional water and ethanol extracts.

Kenneth L. Rosenthal, McMaster University

CVT-E002 activates human innate immune responses via selected Toll-like receptors

Kay Rittenbach, CV Technologies, Edmonton, AB

CVT-E002, a Polysaccharide from North American Ginseng (*Panax quinquefolium*) enhances immune response in a human dendritic and T cell co-culture model

H: Hawthorn

Moderator: **John H. Cardellina**, Office of Dietary Supplements, NIH

Christian JF Holubarsch, Median Kliniken Hospitals, Germany

Speaker to be Confirmed.

Suzanna Zick, University of Michigan

Speaker to be Confirmed.

Tim Dickinson, Royal Ontario Museum & University of Toronto

So many hawthorns, or so few? Recent attempts to understand why.

Jeanette Lee, West Kooteney Herb Grower's Cooperative
Paula N. Brown, BC Institute of Technology
Agro-forestry Demonstration Farm Trials: Cultivation of BC Grown Hawthorn via Development of Sustainable Management Practices and Superior Product Specification

5:00 pm Poster Session

7:00 pm **Gala Dinner & Student Award Ceremony**

Keynote Lecture by Dr. Barry Glickman, Professor of Molecular Genetics, University of Victoria and Author of *Patagonia Through the Eyes of Darwin*.



9:00 pm Conference Day 2 Ends

Saturday February 21st, 2009

8:30 am Plenary Session 5: **History & Evolution of Traditional Indian Systems of Medicine**

Padma Venkat, Foundation for Revitalization of Local Health Traditions, Bangalore, India
Trans-Disciplinary Strategy for Developing Quality Standards For Medicinal Plant Raw Drugs

G. N. Qazi, Jammia Hamdard University, Delhi, India
Title to be Confirmed.

Ranjit Puranik, Shree Dhootapapeshwar Ltd., Mumbai, India
Title to be announced.

10:00 am Nutrition Break

10:30 am Plenary Session 6: **'Omics III' Plant Genomics**

Matthew T. Cimino, Stoney Forensic Inc., VA, USA
Nucleotide sequence based approaches to herbal identification

Jonathan Page, Plant Biotechnology Institute, NRC
Medicinal plant genomics: hop, cannabis and St. John's wort

Gane Ka Shu Wong, University of Alberta
1000 Plants (1KP)

12:00 pm

Lunch

1:30 pm

Concurrent Sessions

I: Scientific & Regulatory Affairs

Moderator: **Steven Dentali**, American Herbal Products Association

Andrew Shao, Council for Responsible Nutrition, DC, USA
The Future of Health Claims: Application of Evidence-Based Nutrition

Jon-Paul Powers, Dicentra Inc., Toronto, ON, Canada
Using Scientific Research to Support the Safety and Efficacy of Natural Health Products

Kosta Cvijovic, University of Vienna & University of Toronto
*Pharmacy Study of Natural Health Product Adverse Reactions (SONAR):
Piloting an active surveillance model in community pharmacies*

Joel J. Gagnier, University of Toronto
Quality of reporting in randomized controlled trials of herbal interventions

Tannis Jurgens, College of Pharmacy, Dalhousie University
Development and evaluation of an instrument for the critical appraisal of RCTs of NHPs.

J: Women's & Children's Health

Moderator: **Shiela Innes**, Child and Family Research Institute, University of British Columbia

Mary L. Hardy, Simms-Mann-UCLA Centre for Integrative Oncology
Challenges in Using Natural Health Products for Women's Cancers

Jean-Jacques Dugoua, University of Toronto; Motherisk at Hospital for Sick Children
Treating Pregnant Women from the 1st Trimester to Delivery Using the Best Scientific Evidence Available

Shiela Innes, Child and Family Research Institute, University of BC
Omega 3 Fatty Acids in Maternal and Child Health

3:00 pm Nutrition Break

3:30 pm Concurrent Sessions

K: Product Integrity

Moderator: **Loren Israelson**, UNPA, Utah, USA

Ikhlas Khan, University of Mississippi
Integrity of Product: Analytical approaches

James Neal-Kababick, Bastyr University & Flora Research Laboratories
Detection of Pharmaceutical Drugs and Related Analogues in Dietary Supplements/Natural Health Products by Tandem HPLC-PDA-MS

William Obermeyer, Consumerlab.com
Title to be confirmed.

Paula N. Brown, BC Institute of Technology
The Importance of Analytical Method Selection & Appropriate Use in Ensuring Dietary Supplement Integrity

L: Nutrition & Nutraceuticals

Moderator: **Peter Jones**, Richardson Centre for Functional Foods & Nutraceuticals, University of Manitoba

Alister D. Muir, Agriculture & Agri-Food Canada
The Role of Analytical Chemistry in reducing ambiguity and uncertainty in the science supporting Health Claims

Andrew Maxwell Phineas Jones, University of BC Okanagan
Bioreactor production of *Echinacea purpurea* L. as a source of standardized, uniform plant material and a model system for studying plant secondary metabolism

Danielle Miotto, Brock University
Study on antioxidant activity of Canadian honeys demonstrate a correlation of the activity with total phenolic content and honey colour

David D. Kitts, University of BC
Chemistry and bioactivity of North American and Asian Devil's Club
(*Oplopanax horridus*)

Phil Sigmund, HYPEX Technologies Inc. & Nutriloc Corp
From Waste to Wellness

Patrick Owen, McGill University
*The "Dietary Functionality Index": a new quantitative measure of
functional food intake and its application to coastal Papua New Guinean
metabolic health*

5:00 pm

Conference Close