



NHP Research
Society of Canada

Société Canadienne de
Recherche PSN

2015

Convergence: Multi-sector Integration for Advancing Transdisciplinary NHP R&D

August 14-17, 2015

Western University

Friday, August 14th, 2015			
12:00 - 16:30	Waters pre-conference workshop - From field to bottle: Pathways in the development of a natural product		
19:00 - 21:00	Public forum: NHPs in clinical settings - Featuring Paul Saunders (CCNM & William Beaumont Oakland University Medical School) & Mary Hardy (Simms/Mann-UCLA Center for Integrative Oncology)		
Saturday August 15th			
8:30 - 9:00	Conference opening and welcome from the NHPRS		
9:00 - 10:00	Keynote speaker: Hang Xiao (Department of Food Science, University of Massachusetts Amherst)		
10:00 - 12:00	Concurrent session 1 - <i>NHPs and Regulatory Topics</i>	Concurrent session 2 - <i>Cancer Part 1</i>	
12:00 - 12:30	Lunch		
12:30 - 13:30	Keynote speaker: Francisco Contreras (Oasis of Hope Hospital)		
13:30 - 15:30	Concurrent session 3 - <i>Industry Innovations</i>	Concurrent session 4 - <i>Cancer Part 2</i>	
15:30 - 16:00	Break		
16:00 - 17:00	Neil Towers Award Presentation and Lecture		
17:00 - 19:00	Poster session and wine and cheese social		
Sunday August 16th			
9:00 - 10:00	Keynote speaker: Sidney Stohs (School of Pharmacy and Health Professions, Creighton University Medical Centre)		
10:00 - 12:00	Concurrent session 5 - <i>Herbal and Traditional Medicines</i>	Concurrent session 6 - <i>Functional Foods</i>	
12:00 - 13:00	Lunch and NHPRS AGM		
13:00 - 14:00	Keynote speaker: Yung-Chi Cheng (Department of Pharmacology, Yale School of Medicine)		
14:00 - 16:00	Concurrent session 7 - <i>Omics Technologies</i>	Concurrent session 8 - <i>Probiotics</i>	
16:00 - 16:15	Break		
16:15 - 18:00	Concurrent session 9 - <i>Phytochemistry and Quality Control</i>	Concurrent session 10 - <i>Neurodegeneration and Cognition</i>	
19:00	Conference Gala Dinner - Featuring: Mark Blumenthal (American Botanical Council)		
Monday August 17th			
8:30 - 9:30	Keynote speaker: Sunita Vohra (Department of Pediatrics, University of Alberta)		
	NHPRS-CGCM Joint Program 1 - Convergence symposium on regulations, scientific advancement and knowledge translation of botanical health products		
	Convergence session I - International perspectives on botanical health product regulations		
9:30 - 10:05	Global regulation of botanical herbal products: then, now and in the future		
10:05 - 10:55	Session I panel discussion - Featuring experts from academia and industry		
10:55 - 11:05	Break		
	Convergence session II - Scientific advances in efficacy, quality and safety		
11:05 - 11:40	Evidence for efficacy		
11:40 - 12:10	Analytical methodology for quality and safety		
12:10 - 13:00	Session II panel discussion - Featuring experts from academia, government, and industry		
13:00 - 14:00	Lunch		
	Convergence session III - Knowledge translation		NHPRS-CGCM Joint Program 2 - Paediatrics and novel approaches to NHPs
14:00 - 14:25	Best practices in KT on botanical health and food products, and recent advancement	14:00 - 14:40	3D ultrasound measurement of carotid plaque volume to assess effects of therapies for atherosclerosis
14:25 - 15:30	Session III panel discussion	14:40 - 15:30	TCM and children: NHPs and acupuncture
	Convergence session IV - Wrap up	15:30 - 15:40	Break
15:30 - 16:30	Session IV open forum - Facilitated by Ed Lui (Western University) and Paul M. Coates (NIH)	15:40 - 16:20	Safety of NHPs in pregnancy and lactation
		16:20 - 17:00	TCM and Special Populations: Regulatory and Developmental Issues
18:30 - 21:30	NHPRS-CGCM joint pig roast at Ed Lui's		

Concurrent Session 1: NHPs and Regulatory Topics - Aug. 15, 2015 10:00 AM-12:00 PM

Chair: Krista Coventry, Canadian Health Food Association

- 10:00 AM Krista Coventry, Canadian Health Food Association, Toronto, ON, Canada
"Health Canada's Consumer Health Products Framework - How will it Impact Regulation of the Natural Health Product (NHP) Sector?"
- 10:25 AM Sharan Sidhu, NHP Licensing Solutions, Kelowna, BC, Canada
"Product Approval, NPN 101"
- 10:50 AM Dr. Ryan Salewski, KGK Synergize, London, ON, Canada
"Scientific Evidence: Using Clinical Research to Support Your Nutraceutical's role in CVD Prevention"
- 11:15 AM Sharan Sidhu, NHP Licensing Solutions, Kelowna, BC, Canada
"Why label GMOs? Is there any evidence behind the argument?"
- 11:40 AM Dr. Diadelis Ramirez, Centre for State quality control of drugs, equipments and medical devices, Miramar, Havana, Cuba
"Regulatory status of herbal medicines: Considerations about Cuba"

Concurrent Session 2: NHP and Cancer (Part I) - Aug. 15, 2015 10:00 AM-12:00 PM

Chair: Dr. Siyaram pandey PhD, University of Windsor

Co-Chair: Dr. Nick Chen MD, Seattle Integrative Cancer Centre

- 10:00 AM Dr. Paul Spagnuolo, PhD, University of Waterloo, Waterloo, ON, Canada
"Inhibition of fatty acid oxidation selectively eliminates acute myeloid leukemia cells and leukemia stem cells"
- 10:30 AM Dr. Nick Chen MD, Seattle Integrative Cancer Centre, Seattle, WA, USA
"Clinical cancer treatment outcomes in an integrative setting"
- 11:00 AM Dr. Sandra Miller PhD, McGill University, Montreal, QC, Canada.
"Daily Feeding of a Proprietary Extract (CVT-E002) of North American Ginseng Results in Progressive, Non-obese Body Weight Gains in Pre-cancerous and Carcinogen-injected Mice: A Possible Role for CVT-E002 in Abating Cancer Cachexia"
- 11:30 AM Dr. Pamela Ovadje PhD, University of Windsor, Windsor, ON, Canada
"Dandelions: The Enemy of Well-Tended Lawns or A Possible Anticancer Agent"

Concurrent Symposium 3: Industry Innovations - Aug. 15, 2015 1:30 PM-3:30 PM

Chair: Dr. Junzen Zhang, National Research Council of Canada

Co-Chair: Dr. Bob Chapman, National Research Council of Canada

- 1:30 PM Dr. Rob O'Brien, ISURA and Supra R&D, BC, Canada
"Development of practical and effective approaches for product authentication of herbal medicines and natural health products"
- 1:55 PM Dr. Bob Chapman, National Research Council of Canada, Charlottetown, PE, Canada
"Development of a chemical barcoding methodology to identify natural health product ingredients"
- 2:20 PM Dr. Vladimir Badmaev, American Medical Holdings Inc., Staten Island, NY, USA
"TurmericImmune™ Healing: tissue repair, regeneration and immunity"
- 2:45 PM Dr. Paul A. Charpentier, University of Western Ontario, London, ON, Canada
"Drug Delivery of Ginsenosides and Polysaccharides from North American Ginseng: Immunomodulatory and Angiogenesis Effects"
- 3:10 PM Dr. Jimmy Yuk, Waters Corporation, Milford, MA, USA
"Identify Chemical and Herbal Components of NHPs Using LC/MS Coupled with a Novel Informatics Platform"

Concurrent Session 4: NHP and Cancer: Part II - Aug. 15, 2015 1:30 PM-3:30 PM

Chair: Dr. Siyaram Pandey PhD, University of Windsor

Co-Chair: Dr. Nick Chen MD, Seattle Integrative Cancer Centre

- 1:30 PM Mr. Daniel Tarade, University of Windsor, Windsor ON, Canada
"Natural Compound Combretastatin A4 and Structurally-Simplified Analogues Possess Potent Anti-Cancer Activity Dependent on Prolonged Mitotic Arrest and Mitochondrial Depolarisation"
- 1:45 PM Mr. Fadi Mansour, University of Windsor, Windsor ON, Canada
"The Current and Future Developments of Structurally Simplified Analogues of the Natural Anti-Cancer Compound Combretastatin A4"
- 2:00 PM Mr. Cory Phillon, University of Windsor, Windsor ON, Canada
"Pre-clinical screening and evaluation of White Tea and Lemongrass for their anti-carcinogenic properties"
- 2:15 PM Ms. Melissa Cowel, University of Windsor, Windsor ON, Canada
"Anti-Cancer Activity of Synthetic Analogues of Pancratistatin Alone & in Combination with Piperlongumine in Glioblastoma"
- 2:30 PM Mr. Chris Pignanelli, University of Windsor, Windsor, On Canada
"Improved Anti-Cancer Activity of Novel Curcumin Analogs in Combination with Trigonelline, an Inhibitor of the Nrf2 Pro-Survival Pathway in Non-Small Cell Lung Carcinoma"
- 2:45 PM Mr. Michael Stanesic, University of Windsor, Windsor, On Canada
"Evaluation of the Anticancer Activity of Lemongrass, Hibiscus and Eleuthero Ginseng on Breast Cancer Cells"
- 3:00 PM Ms. Megan Noel, University of Windsor, Windsor, On Canada

"Anti-Cancer Properties of Novel Curcumin Analogues are Enhanced with Piperlongumine in Triple Negative Breast Cancer Cells"

3:15 PM Question and answer period

Concurrent Symposium 5: Herbal and Traditional Medicines - Aug. 16, 2015 10:00 AM-12:00 PM

Chair: Dr. Paul Spagnuolo, University of Waterloo

Co-Chair: Dr. Cory Harris, University of Ottawa

10:00 AM Dan Jin, Labs-Mart, Edmonton, AB, Canada

"Cannabis, the Herbal Medicine"

10:20 AM Dr. Diadelis Ramirez, Centre for State quality control of drugs, equipments and medical devices, Miramar, Havana, Cuba.

"Interactions between herbal medicines and drugs: Considerations about Cuba"

10:40 AM Richard Licayan, Rutgers University, New Brunswick, NJ, USA

"Nutrient Analysis, Antioxidant Capacity, and Cytotoxicity of Eleven Selected Herbal Weeds of Philippine Origin"

11:00 AM Kazi Farida Akhter, Western University, London ,ON, Canada

"In vitro and in vivo biodistribution and immunomodulatory activity of fluorescent labeled ginseng polysaccharide"

11:20 AM Dr. Mohammed Taque Ansari, MAK College of Pharmacy, Hyperbad, Telanagana, India

"Herbal Medicine Today: Clinical and Research Issues"

11:40 AM Dr. Mohammed Al-Bassir Rahamani, MAK College of Pharmacy, Hyperbad, Telanagana, India

"Herbal Medicines Today: Clinical Research issues pertaining to AIDS and HIV"

Concurrent Symposium 6: Functional Foods: Aug. 16, 2015 10:00 AM-12:00 PM

Chair: Dr. John Thor Arnason, University of Ottawa

10:00 AM Dr. Mal Evans, KGK Synergize, London, ON, Canada

"Functional Ingredients: The Untapped Market in Clinical Research"

10:20 AM Krista Coventry, Canadian Health Food Association, Toronto, ON, Canada

"A Regulatory Framework for Supplemented Foods - Shaping Functional Food Regulation in Canada"

10:40 AM Dr. Cory Harris, University of Ottawa, Ottawa, ON, Canada

"The Purple Tongue Project: A pilot intervention bridging traditional and scientific knowledge about berries to improve community health and engage youth in Nunavik"

11:00 AM Dr. Yanwen Wang, National Research Council Canada, Charlottetown, PEI, Canada

"Shrimp oil improves metabolic phenotypes associated with type 2 diabetes in high-fat diet-induced insulin resistant rats"

11:20 AM Dr. A. Erin Connelly, University of Guelph, Guelph, ON, Canada

"Effects of a novel high-rosmarinic acid spearmint tea on biomarkers of joint metabolism and inflammation in adults with knee osteoarthritis"

11:40 AM Emily Padhi, University of Guelph, Guelph, ON, Canada

"Liking of soy flour muffins over time and the impact of a health claim on willingness to consume"

Concurrent Symposium 7: Omics Technologies - Aug. 16, 2015 2:00 PM-4:00 PM

Chair: Dr. Edmund MK Lui, Western University

2:00 PM Dr. Paul Shipley, The University of British Columbia, Kelowna, BC, Canada

"Nuclear Magnetic Resonance-based Metabolomics as a Hypothesis-Generating Tool in Medicinal Plants"

2:25 PM Dr. Steffany Bennett, University of Ottawa, Ottawa, ON, Canada

"Using targeted lipidomic approaches to assess natural health product impact on the Alzheimer's disease glycerophospholipidome"

2:50 PM Dr. Sridhar Srinivas Tirumalai, St. John's Research Institute, Karnatak, Bangalore, India

"Match-making between drugs and tumors: The devil is in the molecular details"

3:15 PM Dr. Simon Lee, University of Macau, Macau, China

"Genome clue to mystery of Panax notoginseng"

3:40 PM Dr. Tahira Fatima, Western University, London, ON, Canada

"Unraveling genetic basis of phytonutrients of Sea buckthorn"

Concurrent Symposium 8: Probiotics - August 16th, 2015 2:00 PM-4:00 PM

Chair: Dr. Satya Prakash, McGill University

2:00 PM Dr. Toran Sanli, KGK Synergize, London, ON, Canada

"Probiotics: Health Issues for Your Consideration"

2:30 PM Dr. Satya Prakash, McGill University, Montreal, QC, Canada

"Microbiome and Probiotics in Metabolic Syndrome"

3:00 PM Susan Westfall, McGill University, Montreal, QC, Canada

"The role of plant extracts as prebiotics in the modulation of gut microflora: Potentials and limitations in metabolic syndrome and Alzheimer's disease"

3:20 PM Leila Farahdel, McGill University, Montreal, QC, Canada

"Microencapsulated Probiotic Delivered to Hamsters to Lower the Metabolic Syndrome Symptoms"

3:40 PM Susan Westfall, McGill University, Montreal, QC, Canada
"The prebiotic action of Trikatu defines a novel concept of agni in the gut microbiota"

Concurrent Symposium 9: Phytochemistry and Quality Control - August 16th, 2015 4:15 PM - 6:00 PM

Chair: Dr. Paul Shipley, the University of British Columbia

4:15 PM Dr. John Thor Arnason, The University of Ottawa, Ottawa, ON, Canada
"Relation of antiglycation activity of northern blueberry leaf NHPs to Phytochemistry"

4:35 PM Dr. Junzeng Zhang, National Research Council of Canada, Halifax, NS, Canada
"NHP analysis for quality and product differentiation: examples on lipids and polyphenols"

4:55 PM Dr. Kim Colson, Bruker Biospin, Billerica, MA, USA
"Identification and authentication of Black Cohosh using NMR metabolic profiling"

5:15 PM Dr. Phuong Mai Le, National Research Council of Canada, Ottawa, ON, Canada
"Identification and Quantification of Alkaloids in Goldenseal Extracts Using LC-MS and NMR methods"

5:35 PM Yuan-Chun Ma, Canadian Phytopharmaceuticals Corp., Richmond, BC, Canada
"Natural Health Product Quality Control: Addressing the Current Issue of Adulterants"

Concurrent Symposium 10: Neurodegeneration and Cognition - August 16th, 2015 4:15 PM - 6:00 PM

Chair: Dr. Steffany Bennett, University of Ottawa

4:15 PM Dr. Simon Chiu, Western University, London, ON, Canada
"Pilot study of SULMEDOL (patented NHP: Sublimed Sulfur) for hyper-Homocysteinemia: implications for Cognitive Decline in Alzheimer's Disease"

4:35 PM Robert Merson, BioAspect Inc., Toronto, ON, Canada
"Relevant, Economical, and More Humane Efficacy Testing of Natural Health Products in *Drosophila melanogaster* Models of Neurodegeneration"

4:55 PM Bin Rui Yang, University of Macau, Taipa, Macau, China
"Zebrafish Models of Neurological Disorders for Discovery of Bioactive Natural Products"

5:15 PM Krithika Muthukumaran, University of Windsor, Windsor, ON, Canada
"Ubisol – Q10 as a therapeutic in genetically susceptible DJ-1 mice and an environmental toxin rat model of Parkinson's disease"

5:35 PM Dr. Siyaram Pandey, University of Windsor, Windsor, ON, Canada
"Stabilizing mitochondrial function by Ubisol Q10: Potential treatment for neuro-degenerative diseases"