

# Presentations

Chike G. Azike, Paul A. Charpentier, John T. Arnason, Edmund M.K. Lui	Cultivating Natural Bioactives July 8 – 11, 2012 London, ON	North American ginseng extracts modulation of macrophage immune function: phytochemical and pharmacological characterization
Dan Brown, Sijun Zhou, Di Wu, Marysia Latoszek-Green, Jo Ann Stebbing, John Arnason, Ed Lui, Chris Siow, Keri Wang, Ryan Austin, and Andrew Sharpe Praveen Saxena, Esther E. Uchendu and Gopinadhan Paliyath	Cultivating Natural Bioactives July 8 – 11, 2012 London, ON	Quality and progress toward improved ginseng germplasm in Canadian ginseng
Morris Karmazyn	Cultivating Natural Bioactives July 8 – 11, 2012 London, ON	Prevention and reversal of post-infarction remodelling and heart failure by North American ginseng
Kyakulaga, A. Hassan, Celestino Obua, Edward Mwavu	Cultivating Natural Bioactives July 8 – 11, 2012 London, ON	The immunomodulatory effects of aqueous extracts of the Ugandan <i>Auricularia</i> SP AND <i>Pleurotus</i> sp mushrooms in Wistar rats
Ed Lui, Hua Zhou	Cultivating Natural Bioactives July 8 – 11, 2012 London, ON	Development of international standards of Traditional Chinese Medicine: an introduction to ISO/TC249 and a case study with ginseng
Ed Lui	Cultivating Natural Bioactives July 8 – 11, 2012 London, ON	Preclinical and safety consideration: a case study with ginseng
Ed Lui <sup>1</sup> , Takeo Sakuma <sup>2</sup> , Feng Zhong <sup>2</sup> , Carmai Seto <sup>2</sup> ( <sup>1</sup> Ontario Ginseng Innovation and Research Consortium, Western University, <sup>2</sup> AB SCIEX, Four Valley Drive, Concord, ON	CGCM Macau Aug 19-21	A LC-MS/MS based pharmacokinetic study of American ginseng with reference to its effect on reproductive function
<sup>1</sup> Ed Lui, <sup>2</sup> Xu Guo, <sup>2</sup> Eva Duchoslav, <sup>2</sup> Takeo Sakuma, <sup>2</sup> Dave Cox, <sup>3</sup> Byung-Hee Shin ( <sup>1</sup> Western University, Ontario, On, Canada; <sup>2</sup> AB Sciex, Concord, On, Canada; <sup>3</sup> AB Sciex Korea)	CGCM Macau Aug 19-21	High Resolution Profiling of Ginsenosides of Cultivated Korean Ginseng using Triple-Quadrupole-Time-of-Flight Mass Spectrometry Technology
Megan Migchels and John Ciriello	Cultivating Natural Bioactives July 8 – 11, 2012 London, ON	The effect of North American ginseng on central neuronal circuits associated with the metabolic syndrome
Raziye Samimi, Paul Charpentier, Edmund Lui	Cultivating Natural Bioactives July 8 – 11, 2012 London, ON	Synthesis and characterization of angiogenic bone cement loaded with ginsenoside RG1
Raziye Samimi, Mehrnaz Salarian, Paul Charpentier, Edmund Lui	Cultivating Natural Bioactives July 8 – 11, 2012 London, ON	Controlled release of North American ginseng extracts encapsulated within microsphere/hydrogel combination system
Praveen Saxena	Cultivating Natural Bioactives July 8 – 11, 2012 London, ON	In Vitro Conservation of Medicinal Plants: A Canadian Initiative
Mukund Shukla, Praveen Saxena, Andrew Maxwell Phineas Jones	Cultivating Natural Bioactives July 8 – 11, 2012 London, ON	Melatonin in medicinal plants: importance and potential applications
Di Wu, Ryan Austin, Sijun Zhou, Dan Brown	Cultivating Natural Bioactives July 8 – 11, 2012 London, ON	De novo assembly of American ginseng ( <i>Panax quinquefolius</i> L.) root transcriptome and analysis of gene expression during development
Farida Akhter, Paul A. Charpentier, Edmund Lui	Cultivating Natural Bioactives July 8 – 11, 2012 London, ON	Advanced processing of ginseng polysaccharides for controlled drug delivery
Pearl Chung, Chike Azike, Hua Pei and Edmund MK Lui	Western University Physiology & Pharmacology Research Day, 2012	Immunomodulatory effects of American ginseng berry
Adrianna Cimo, Edmund Lui, Sharareh Hekmat	Cultivating Natural Bioactives July 8 – 11, 2012 London, ON	Manufacturing probiotic yogurt fortified with ginseng and examining effects on vascular health
Ed Lui	Cultivating Natural Bioactives July 8 – 11, 2012 London, ON	Pharmacometabonomics of ginseng extracts on vascular injury induced by chronic homocysteine treatment
Edmund Lui, Takeo Sakuma, Tom Moy, Dav Co, Ron Bonner, Eva Duchoslav, Suma Ramagiri	Cultivating Natural Bioactives July 8 – 11, 2012 London, ON	Pharmacometabonomics of ginseng extracts on vascular injury induced by chronic homocysteine treatment
Hoda Moazzen, Yan Wy, Xiangru Lu, Qingping Feng	Cultivating Natural Bioactives July 8 – 11, 2012 London, ON	North American Ginseng Inhibits Myocardial TNF-alpha Expression and Improves Cardiac Function in Endotoxemia
Subhrojit Sen, Shali chen, Biao Feng, Yuexiu, Edmund Lui, Subrata Chakrabarti	Cultivating Natural Bioactives July 8 – 11, 2012 London, ON	Diabetes induced renal and retinal changes are prevented by North American ginseng

Ratnesh Singh, Marica Bakovic	Cultivating Natural Bioactives July 8 – 11, 2012 London, ON	Lipid and glucose lowering effects of north american ginseng
Zacharias Suntres, John Coccimiglio, Misagh Alipour	Cultivating Natural Bioactives July 8 – 11, 2012 London, ON	The biological effects of ethanolic extract and major constituents of origanum vulgare
John R Trevithick, Tomasz M Dzialoszynski, Guangyu Li and Earl G Noble	ARVO 2012 Annual Meeting May 6 – 10, 2012 Ft Lauderdale, FL	Ontario ginseng extracts protect against cataract and oxidative stress in pig lenses exposed to high energy neutron irradiation
John Trevithick, Eileen Heo, Tomasz Dzialoszynski	Cultivating Natural Bioactives July 8 – 11, 2012 London, ON	Antioxidant activities of ginseng extracts and antioxidant mixtures in vitro
Wilson SAF, Stryjecki C, De Boer A, Lui E, and Mutch DM.	Canadian Nutrition Society Annual Meeting, Vancouver, BC, Canada. May 23-25, 2012	Unraveling adipocyte inflammatory pathways modulated by North American ginseng
Di Wu	Canadian Plant Biotechnology Conference May 14-17, 2012-09-19 Guelph ON	De novo assembly of American ginseng ( <i>Panax quinquefolius</i> L.) root transcriptome and analysis of gene expression during development
Ganjian Zhao, Tracey Gan, Cathy Huang, Morris Karmazyn	Cultivating Natural Bioactives July 8 – 11, 2012 London, ON	Cyclo-oxygenase 2 (COX-2) as a Target for the Inhibition of the Hypertrophic Effects of Endothelin-1 by Ginseng
Sijun Zhou, Di Wu, Dan Brown	Cultivating Natural Bioactives July 8 – 11, 2012 London, ON	Application of biotechnology to north american ginseng production

## Publications

Estaki, M., E.G. Noble	FASEB J March 29, 2012 26:1141.5.	Differences in alcohol versus aqueous extracts of North American Ginseng in protecting against eccentric exercise-induced muscle damage in rats
Edmund M K Lui, Chike G. Azike, José A. Guerrero-Analco, Ahmad A. Romeh, Hua Pei, Sherif J. Kalda, John T. Arnason, Paul A. Charpentier Edt by Desiree Nedra Karunaratne.	InTech Press 2012.	Bioactive Polysaccharides of American ginseng <i>Panax quinquefolius</i> L. in Modulation of Immune Function: Phytochemical and Pharmacological Characterization” in Polysaccharides.
Laura E. Bowie, Wendi A. Roscoe, Ed Lui, Robin Smith, and Stephen J. Karlick	Can J Physiol Pharmacol. 90, 933-9392012.	Effects of an aqueous extract of American ginseng on MOG <sub>(35-55)</sub> induced EAE in mice.
Edmund MK Lui, Chike Godwin Azike, Antonio J. Guerrer, Ahmad A. Rome, Hua Pei, John T. Arnason, Paul A. Charpentier	"Polysaccharides", ISBN 980-953-307-162-1	Bioactive Polysaccharides of <i>Panax quinquefolius</i> in modulation of immune function: phytochemical and pharmacological characterization
Melissa Moey, Xiaohong T. Gan, Cathy Xiaoling Huang, Venkatesh Rajapurohitam, Eduardo Martínez-Abundis, Edmund M.K. Lui and Morris Karmazyn	Circulation: Heart Failure. 2012; 5: 504-514	Ginseng Reverses Established Cardiomyocyte Hypertrophy and Post Myocardial Infarction-Induced Hypertrophy and Heart Failure
Subhrojit Sen, Shali Chen, Biao Feng, Yuexiu Wu, Edmund Lui, Subrata Chakrabarti	Phytomedicine (2012), doi:10.1016/j.phymed. 2012.01.001.	Preventive effects of North American ginseng ( <i>Panax quinquefolium</i> ) on diabetic nephropathy
Subhrojit Sen, Shali Chen, Yuexiu Wu, Biao Feng, Edmund K Lui and Subrata Chakrabarti	PHYTOTHERAPY RESEARCH Phytother. Res. (2012) Published online in Wiley Online Library	Preventive effects of North American ginseng ( <i>Panax quinquefolium</i> ) on diabetic nephropathy
Wilson SA, Wong MH, Stryjecki C, De Boer A, Lui EM, Mutch DM.	Int J Obes (Lond). 2012 Apr 17. doi: 10.1038/ijo.2012.50. [Epub ahead of print].	Unraveling the adipocyte inflammomodulatory pathways activated by North American ginseng.

## Theses

Danyka Belanger	MSc thesis	The effect of ginseng on preimplantation development (project title)
Pearl Chung	Undergraduate thesis	Immunomodulatory effects of American ginseng berry
Holly Lemmon	MSc thesis	Effects of ginseng extracts on innate and adaptive immune responses
Megan J Migchels	MSc thesis	Chronic North American ginseng administration alters metabolic and cardiovascular variables in the rat