



## **Genes, nutrition and health**

Progress in genomics and genetic research has considerably improved our understanding of the role of genes in health and disease and provided the foundation for personalized medicine, the integration of genetic and clinical data to personalize disease risk assessment and delivery of health care with the goal of providing the best treatment to the right person. The translation of these “omics” technologies in nutrition has led to a new field of research aimed at investigating the role of genetic variation in the responses to nutrients (nutrigenetics) and the role of nutrients in gene expression (nutrigenomics). Individuals respond differently to various food and nutrients and this variability in the response and its impact in the prevention and treatment of chronic diseases need to be studied, discussed and understood by healthcare professionals, food industry and the general public.

The **7th annual meeting of the International Society of Nutrigenetics and Nutrigenomics (ISNN)** will take place in Quebec City, at Québec City Convention Centre, October 5-8, 2013 and will be an opportunity for scientists, graduate students, healthcare professionals and food industry to meet and discuss latest research developments in this field. 350-400 participants are expected to attend to this meeting. The 2013 ISNN meeting will be the first to take place in Canada. Previous meetings were held in Athens (2007), Geneva (2008), Bethesda (2009), Pamplona (2010), Beijing (2011) and Sao Paulo (November 2012).

## **Meeting objectives and expected outcomes**

The objectives of the 2013 ISNN annual meeting are:

- 1) To promote exchange of knowledge among healthcare professionals, scientists, graduate students in various topics related to nutrigenetics and nutrigenomics;



- 2) To present latest research developments in the field of nutrigenetics/nutrigenomics for various health outcomes with focus on obesity, diabetes, cardiovascular and cardiometabolic risk factors, inflammation, aging and cancer.
- 3) Discuss challenges and opportunities for knowledge dissemination and translation of nutrigenetics/nutrigenomics into clinical practice.

The following outcomes are expected from the 2013 ISNN meeting:

- 1) Engage investigators, graduate students and nutrition experts from Canada and abroad in the presentation of cutting-edge research in the field of nutrigenetics/nutrigenomics and its application for disease prevention and potential therapeutic applications.
- 2) Provide an opportunity for graduate students to present their research to a national and international audience of their peers and, by doing so, build their academic portfolio.
- 3) Effectively communicate current research findings to Canadian and international scientists and graduate students, experts in nutrition and other healthcare professionals and the food industry. Abstracts of the meeting will be published in the *Journal of Nutrigenetics and Nutrigenomics* (JNN). Efforts will also be made to communicate through our website the main outcomes of the meeting to scientists, healthcare professionals and the public.

## **Preliminary program of the meeting**

The program template is presented in Table 1. During the 2½ day period of the meeting, there will be five scientific sessions and two poster sessions. Each scientific session will include four to five invited speakers (30-min presentation for each) and two oral presentations from students (15-min each). The student presentations will be selected from the abstracts submitted and put in the most relevant session based on the theme of that session. The meeting will start on Saturday evening with the keynote address given by Dr Claude Bouchard, a Canadian scientist known internationally for his work on the genetics of obesity, obesity-related diseases and the genetics of adaptation to exercise.

The five scientific sessions are:

**Session 1:** Obesity, healthy body weight: implications for weight management  
Chairs: Louis Pérusse / Claude Bouchard

**Session 2:** Nutrigenetics of aging and cancer



Chairs: Thomas P. Ong / John Milner

**Session 3:** Inflammation and oxidative stress

Chairs: Emile Lévy / Peter Eck

**Session 4:** Type 2 diabetes and cardiometabolic risk factors

Chairs: Marie-Claude Vohl / Raffaele DeCatarina

**Session 5:** Translation of “omics” into clinical practice: are we there yet?

Chairs: Artemis Simopoulos / Jing X. Kang

**Table 1: ISNN 2013 Program Template**

	<b>Saturday October 5</b>	<b>Sunday October 6</b>	<b>Monday October 7</b>	<b>Tuesday October 8</b>
<b>8:30 – 10:00</b>	---	Session 1 3 speakers	Session 3 3 speakers	Session 5 3 speakers
<b>Break</b>	---	Pause	Pause	Pause
<b>10:30 – 12:00</b>	---	Session 1 – cont'd 2 speakers – 2 students	Session 3 – cont'd 2 speakers – 2 students	Session 5 – cont'd 1 speaker followed by Round table*
<b>Lunch</b>	---	---	---	Presentation of Student Awards Closing remarks
<b>14:00 – 15:30</b>	Registration	Session 2 3 speakers	Session 4 3 speakers	
<b>Pause</b>	Registration – cont'd	Pause	Pause	---
<b>16:00 – 17:00</b>	Registration – cont'd	Session 2 – cont'd 1 speaker – 2 students	Session 4 – cont'd 1 speaker – 2 students	---
<b>17:00- 19:00</b>	Opening ceremony Keynote address: Claude Bouchard	Poster session Cocktail	Poster session	---
<b>19:00</b>	Welcoming reception	---	Banquet	---
<b>20:00</b>	---	ISNN Board Meeting	---	---

*\*An expert panel will be called upon to participate in a Round table on Perspectives and challenges (ethics, translational aspects, etc.)*



## **The members of the organizing committee of the 2013 ISNN meeting**

- **Louis Perusse, PhD**  
Chair of the 2013 ISNN Meeting  
Director, Department of Kinesiology, Faculty of Medicine  
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- **André Marette, PhD**  
Co-Chair of the 2013 ISNN Meeting  
Research Chair Pfizer/IRSC on pathogenesis of insulin-resistance and cardiovascular diseases  
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- **Marie-Claude Vohl, PhD**  
Co-Chair of the 2013 ISNN Meeting  
Canada Research Chair in Genomics applied to nutrition and health  
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Sophie Banville and Éliane Picard-Deland from the Institute of Nutrition and Functional Foods (INAF) of Laval University, will help coordinate activities of the organizing committee.

## **Members of the scientific program committee**

Dr Louis Pérusse, Laval University, Canada  
Dr André Marette, Laval University, Canada  
Dr Marie-Claude Vohl, Laval University, Canada  
Dr Émile Lévy, University of Montreal, Canada  
Dr Béatrice Godard, University of Montreal Public Health Research Institute, Canada  
Dr Ahmed El-Sohehy, University of Toronto, Canada  
Dr Peter Jones, University of Manitoba, Canada  
Dr Peter Eck, University of Manitoba, Canada  
Dr Raffaele DeCaterina, President of ISNN, G. d'Annunzio University, Italy  
Dr Artemis Simopoulos, Center for Genetics, Nutrition and Health, USA  
Dr Jing Kang, Harvard Medical School, USA  
Dr John Milner, National Institutes of Health, USA  
Dr Charles Serhan, Harvard Medical School



Dr Rui Curi, Institute of Biomedical Sciences, University of Sao Paulo, Brazil  
Dr Lynette Ferguson, University of Auckland, New Zeland  
Dr Jose Alfredo Martinez, University of Navara, Spain

**For more information, please contact:**

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**ISSN 2013 meeting website :** [www.isnn2013.org](http://www.isnn2013.org) (in development)

**Thank you for your attention and we look forward to meeting you in Quebec City in 2013!**