

## DAY 1. February 21, 2010

Registration opens 3.00pm

[Young investigators session:](#) 4.00 - 6.00. Papers submitted to [Matthew Barnett](#)

Programme to be advised

Pre-conference mixer and drinks 6.00 - 7.30pm

## DAY 2. Human variability, international perspectives, February 22, 2010

Opening Ceremony	8.30-8.50	Maori Welcome
	8.50-9.00	Why should the food industry need nutrigenomics? Changed thinking in a changing economic climate.
	<a href="#">Pearse Lyons</a> , <i>Alltech, USA</i>	

Introduction and Welcome. Lynn Ferguson, *Nutrigenomics New Zealand*

PLENARY	9.05-9.45	Evolving understanding of human variability: defining and measuring the complexity
Measuring human variability	<a href="#">Charles Cantor</a> , <i>Boston University</i>	
	9.45-10.25	Copy number variants: measurement and importance in human disease.
	<a href="#">Charles Lee</a> , <i>Harvard University</i>	

### 10.25-10.50 BREAK

SYMPOSIUM	10.50-11.10	GWAS in measuring human variability – strengths and potential
1 Human variability, bioinformatics and potential applications to studies of gene-diet interactions	<a href="#">Chris Mathew</a> , <i>Kings College, London</i>	
	11.10-11.30	Where's the biology?
	<a href="#">Jim Kaput</a> , <i>FDA, USA</i>	
	11.30-11.50	GWAS in measuring human variability - are we depending too much upon them?
	<a href="#">Angharad Morgan</a> , <i>The University of Auckland</i>	
	11.50-12.10	Pathway analysis in exploring gene expression
	<a href="#">Cristin Print</a> , <i>The University of Auckland</i>	
	12.10-12.30	Providing a national collaborative infrastructure for genomics and bioinformatics
	<a href="#">Mik Black</a> , <i>University of Otago</i>	

**12.30-1.30 LUNCH**

SYMPOSIUM 2	1.30-1.50	Host microbes and gut inflammation
<b>European perspectives: NuGO and gene-diet interactions in gut health</b>	<a href="#"><u>Gabrielle Höermannsperger</u></a>	
	1.50-2.10	Impact of dietary polyphenols on human gut microbiota diversity and metabolome
	<a href="#"><u>Doris Jacobs</u></a> , Unilever Research, the Netherlands	
	2.10-2.30	Systemic inflammation triggered by hepatic metabolism.
	<a href="#"><u>Baukje de Roos</u></a> , <i>Rowett Institute</i>	
SYMPOSIUM 3	2.30-2.50	Transcriptomic approaches to gene-diet interactions in gut health
<b>New Zealand perspectives: NuNZ and gene-diet interactions in gut health</b>	<a href="#"><u>Nicole Roy</u></a> , Agresearch	
	2.50-3.10	Proteomic approaches to gene-diet interactions in gut health
	<a href="#"><u>Janine Cooney</u></a> , <i>Plant and Food Research</i>	
	3.10-3.30	Autophagy genes, dietary responses and gut health
	<a href="#"><u>Claudia Huebner</u></a> , <i>The University of Auckland</i>	

**3.30-4.00 BREAK**

SYMPOSIUM 4	4.00-4.20	Approaches to studying host variability
<b>Asia Pacific perspectives</b>	<a href="#"><u>Jianjun Liu</u></a> , <i>Genome Institute, Singapore</i>	
	4.20-4.40	Nutrigenomics programme in Seoul: Korean approaches to gene-diet interactions
	<a href="#"><u>Taesun Park</u></a> , <i>Yonsei University, South Korea</i>	
	4.40-5.00	Effects of some edible phytochemicals on inflammatory disorders
	<a href="#"><u>Ki-Baik Hahm</u></a> , <i>Gachon University, Korea</i>	
<b>Poster session</b> [Drinks and snacks available]	5.00-6.30	Poster session

**Buses to main campus for public lecture 6.30-7.00**

<b>PUBLIC LECTURE</b>	<b>7.30-8:30 (lecture)</b>	Public health genomics: translating nutrigenomics research into population health benefits
	<a href="#"><u>John Milner</u></a> , <i>NIH, USA</i>	

### DAY 3. Gut health, February 23, 2010

PLENARY Genes and microbiota in gut health	8.30-9.10	Role of genes in gut health: The genetics of Inflammatory Bowel Diseases, focus on Ulcerative colitis
	<a href="#">Chris Mathew</a> , <i>Kings College, London</i>	
	9.10-9.50	Role of microbiota in gut health: Gut microbiota in inflammatory bowel diseases and colon cancer
	<a href="#">Ian Rowland</a> , <i>Reading University</i>	
	9.50-10.10	Genetic basis of Crohn's disease in a New Zealand population: importance of phenotype relationships
	<a href="#">Alan Fraser</a> , <i>University of Auckland</i>	

#### 10.10-10.35 Break

PLENARY Microbiota in gut health	10.35-11.15	Intestinal homeostasis and the role of microbe-host signaling in the epithelium
	<a href="#">Jerry Wells</a> , <i>The University of Wageningen</i>	
SYMPOSIUM 5 Bringing gene-diet interactions into clinical use	11.15-11.35	Host bacterial interactions and barrier effects on inflammatory bowel diseases
	<a href="#">Michael Schulz</a> , <i>University of Otago</i>	
	11.35-11.55	Analysing dietary influences on Inflammatory Bowel diseases
	<a href="#">Chris Triggs</a> , <i>University of Auckland</i>	
	11.55-12.15	Food, Mood, Genes and Gender
	<a href="#">Paul Enck</a> , <i>University of Tübingen</i>	
	12.15-12.30	Analysis of caecal microbiota associated with increased colon inflammation in interleukin-10 gene-deficient mice inoculated with <i>Enterococcus</i> species.
	<a href="#">Shalome Basset</a> , <i>Agresearch</i>	

#### 12.30-1.30 LUNCH

PLENARY Nutrigenomics and epigenetics	1.30-2.10	Transcription factors in regulation of inflammatory gene expression: opportunities for nutritional intervention
	<a href="#">Young-Joon Surh</a> , <i>Seoul University</i>	
SYMPOSIUM 6 Epigenetic effects on	2.10-2.30	Epigenetic effects and diet in animal models of IBD
	<a href="#">Matthew Barnett</a> , <i></i>	

<b>gene expression</b>	<i>Agresearch</i>	
	2.30-2.50 <b>Peter Molloy,</b> <i>CSIRO</i>	New methods for genome-wide analysis of DNA methylation
	2.50-3.10	Nutrient regulation of gene expression
	<u><a href="#">Peter Shepherd,</a></u> <i>The University of Auckland</i>	
<b>3.10-3.40 Break</b>		
<b>PLENARY</b> <b>Nutrigenomics and personalised nutrition</b>	3.40-4.30 <u><a href="#">Martin Kussmann,</a></u> <i>Nestle, Lausanne</i>	Nutrigenomics and Personalized Nutrition - Science and Concept
<b>SYMPOSIUM</b> <b>7: Metabolomics and contributed papers</b>	4.30-4.50 <u><a href="#">Don Otter,</a></u> <i>AgResearch</i>	Metabolomics – contribution to understanding inflammatory bowel disease
	4.50-5.02 Mingshu Cao	Computational and Statistical Issues in Biomarker Discovery via Mass Spectrometry-Based Metabolomics
	5.02-5.14 Helge Dzierzon	The NuNZ Information System, a Tool more than just a Storage Engine
	5.14-5.26 Harry Martin	Development of a high throughput, fluorescence assay for Janus-kinase 2 (JAK2)
	5.26-5.38 Christine Houghton	Activating the <i>Master Switch</i> of Cellular Defence – a Clinical rationale for Nutrigenomic Medicine.
	<u><a href="#">Sung-Joon Lee*</a></u> and Hee-jin Jun	<i>Melissa Officinalis</i> essential oil improve hyperlipidemia in human APOE2 transgenic mice and HepG2 cells

**Conference dinner at The Floating Pavilion, 7.30 p.m.**

#### **DAY 4. Is the marketplace ready for nutrigenomic foods? February 24, 2010**

<b>Setting the scene</b>	8.40-9.00 <u><a href="#">Stephen Goldson,</a></u> <i>Science in NZ and why it matters</i>	Where Nutrigenomics science is
--------------------------	--	--------------------------------

*Strategist, Office of the  
PM's Science Advisor*

PLENARY Taking Nutrigenomics to the public	9.00-9.40 <a href="#">Michael Fenech</a> , <i>CSIRO</i>	Taking nutrigenomics to the public: genome health clinics for personalised DNA damage prevention
PLENARY Taking Nutrigenomics to the public	9.40-10.20 <a href="#">Ben van Ommen</a> , <i>TNO</i> , <i>The Netherlands</i>	Proving public health benefits from nutrigenomics: Challenging homeostasis

**10.20-10.45 Break**

SYMPOSIUM 8 Nutrigenomics and the Food industry	10.45-11.05 <a href="#">Karl Dawson</a> , <i>Alltech</i>	Using Nutrigenomics to develop nutritional strategies
	11.05-11.25 <a href="#">Ronan Power</a> , <i>Alltech</i>	Can nutrigenomics shed light on the selenium controversy?
	11.25-11.45 <a href="#">Jeremy Hill</a> , <i>Fonterra</i>	Taking the 'omics' to market - if, how and when?
	11.45-12.05 <a href="#">Martin Kussmann</a> , <i>Nestle, Lausanne</i>	Nutrigenomics and Personalized Nutrition. Viewpoint from an international food industry
	12.05-12.25 <b>Jim Mervis</b> , <i>Coda Therapeutics, NZ</i>	Is the market place ready for nutrigenomics foods?
	12.25-12.45 <a href="#">Richard Newcombe</a> , <i>Plant &amp; Food Research</i>	Gastronomics: making gene-diet interactions palatable to the public

**12.45-1.45 LUNCH**

PLENARY	1.45-2.25 <a href="#">Jim Kaput</a> , <i>FDA</i>	Personalizing gene-diet interactions through community based participatory research and omics technologies
SYMPOSIUM 9	2.25-2.45 <a href="#">Jane Cameron</a> , <i>MORST</i> , <i>NZ</i>	Why is nutrigenomics important for the NZ economy?
	2.45-3.05 <a href="#">Max Kennedy</a> , <i>FRST, NZ</i>	Why should Nutrigenomics research be funded?
	3.05-3.25 <a href="#">Leigh Henderson</a> , <i>Food Standards Australia New Zealand</i>	Regulation and Nutrigenomics
Contributed papers	3.25-3.40 <b>Bart Penders</b> , <i>The Netherlands</i>	

**Dilip Ghosh, Australia**

3.40-4.05 Break

<b>Round Table Discussion</b>	4.05-5.35 <b>Led by <a href="#">Karl Dawson</a> and <a href="#">Ronan Power</a>, <i>Alltech</i></b>	Is the marketplace ready for Nutrigenomics foods?
-------------------------------	--	--

**DAY 5. International workshop, 25 February, 2010**

**See revised programme**

[Towards A Global Nutrigenomics Infrastructure Workshops @ 4th Asia Pacific Nutrigenomics Conference](#). An open workshop.

**DAY 6, 26 February, 2010**

**Secondary Schools Workshop.**