

NUTRIGENOMICS 2008

Bridging science to concrete consumer health benefits

March 13-14, 2008

Faculté de Médecine – Université Paris V, Paris

Final Programme & Abstract accepted

Please find below the **final programme** and the **abstracts accepted** for oral and posters presentation for the *Paris NutriGenomics 2008* conference which will be held at the **Faculté de Médecine, Université Paris 5 on March, 13 & 14 2008.**

Do not hesitate to visit our website for more **information and registration**

www.isanh.com/nutrigenomics/

We are looking forward to meeting you in Paris next month,

Best Regards,

Paris NutriGenomics 2008

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Paris

NUTRIGENOMICS 2008

Final Programme & Abstract accepted

Thursday March 13th

8:30 Registration

Session 1

Scientific Vision of Nutrigenomics: Actual State and Recent Advances

9:00 Food-genes interactions and long-term health: Challenges for science, industry & society

Dr Siân Astley, European Communications manager, Norwisch Biosciences Institutes, Norwisch, United Kingdom

9:30 The future of food and the food of future: What Nutrigenomics brings?

How diet affects genes expression?

How these changes influence protein expression and metabolism?

Genetic variation & individual physiological response to diet

How to determine the effective dose?

Dr Lydia Afman, Metabolism and Genomics Group, Wageningen University, The Netherlands

10:00 Nutri-epigenomics: Lifelong Impact of diet on epigenome remodelling and beyond

Pr Claudine Junien, INSERM U781 - Génétique et Epigénétique des Maladies Métaboliques, Neurosensorielles et du Développement, France

10:30 Break & Poster Session & visit of exhibition space

NutriGenomics & Chronic Diseases Prevention

11:00 Nutrigenomics can deliver biomarkers for dietary intervention and individual disposition

Dr Martin Kussmann, Nestlé Research Center, Lausanne, Switzerland

11:30 Overview on Nutrigenomics & Chronic diseases prevention: Obesity & Diabetes: Potentials and challenges

Dr Amelia Marti, Department of Physiology and Nutrition, University of Navarra, Pamplona, Spain

12:00 Genomics view of ageing and longevity: two sides of the coin

Perspectives of Nutrigenomics in anti-ageing strategies.

Can nutrition slow down the overall skin ageing process?

Do the personalisation of diet and cosmetics has to be updated through life-time?

Can Nutrigenomics contribute to define new cosmetic targets?

Dr Elena Baranova, President of the European Institute of Personalised Prevention, Nice, France

12:30 Lunch & Poster session

14:00 Antioxidant absorption and genes: Antioxidant intake related to genetic polymorphisms?

Can Nutrigenetics modulate Antioxidant recommendations?

Dr Patrick Borel, UMR 476 INSERM/ 1260 INRA, Faculté de Médecine de Marseille, France

14:30 Nutrigenomics and Selenium: Do genetic factors influence selenium metabolism and nutritional requirements?

What biomarkers are available to study selenium incorporation?

Is there individual variation regarding selenoproteins synthesis?

Pr John Hesketh, Institute for Cell and Molecular Biosciences, University of Newcastle upon Tyne, United Kingdom

15:00 Pharmacogenomics, Nutrigenomics and therapeutic optimization : The case of Alzheimer's disease

Dr Ramon Cacabelos, BioEspes Biomedical Research center, Bergondo, Coruna, Spain

15:30 Break & Poster Session

16:00 Short oral communications

An award of 1000 euros will be granted by the scientific committee to the most innovative oral & poster presentation.

PPARA is essential for utilisation of plant diets

K. Motojima et al., Department of Biochemistry, Meiji Pharmaceutical University, Tokyo, Japan

Association Between ICAM-1 and VCAM-1 Polymorphisms And Serum Levels Of Cell Adhesion Molecules: Modulation By The Red Wine Consumption

O. Portolés et al., Department of Preventive Medicine. University of Valencia, Spain

Targeting heat shock protein and inflammatory profile through nutraceutical intervention: The role of IL-6 polymorphisms

F. Marotta et al., Consultant in Gastroenterology, WHO center for Biotech & National Med, University of Milano, Italy

Foods Rich in Polyphenols and N-3 fatty acids decrease cutaneous

melanoma risk

C. Fortes, Clinical Epidemiology Unit, IDI, Roma, Italia

Human in Vivo Nutrigenomic effect of olive oil

V. Konstantinidou, Lipids and Cardiovascular Epidemiology Research Unit, IMIM Hospital del Mar, Barcelona, Spain

Serum 25 hydroxyvitamin D and IGE – A significant but non linear relationship

E. Hyppönen et al., MRC Centre for Epidemiology of Child Health, London, UK

Genes, nutrition and metabolic syndrome prevention.

I. Wybranska et al., Dept of Clinical Biochemistry, The Jagiellonian University Medical College, Krakow, Kopernika

Genetic variants in hepatic lipase, aPOb and I-FABP are associated with human plasma levels of Vitamin E and carotenoids

M. Moussa et al, INRA, Nutriments Lipidiques et Prévention des Maladies Métaboliques, Marseille, France

Metabolic alterations and response to weight-loss intervention vary with perilipin polymorphisms in obese children and adolescents
Sophie Deram et al., Laboratory of Human Nutrition and Metabolic Disease – LIM-25, FMUSP: University of São Paulo Medical School – Brazil
Effect of milk fermentation on global gene expression in human blood cells
M.F. Sagaya et al., Laboratory for Human Nutrition, Swiss Federal Institute of Technology Zurich (ETHZ), Switzerland
Personalized nutrition? Gene-diet interaction in intervention studies
R. valls et al., Unitat de recerca de lípids i arteriosclerosis, facultat de medicina i ciències de la salut. Hospital universitari sant joan, Spain

17h30 Discussion & end of the day

19:00 Pick up for Gala Dinner at Le Capitaine Fracasse

The Gala dinner will be held on the Seine, on board of the cruising restaurant boat "Le Capitaine Fracasse"

More Information: www.lecapitainefracasse.com

Friday March 14th

Session 2

Industrial Vision of Nutrigenomics: Innovations, Perspectives & Limits

9:00 New tools and technologies development in Nutrigenomics

Dr Ruan Elliott, Institute of Food Research, Norwich Research Park, United Kingdom

9:30 Metabolomics impact on nutritional research: Innovations & Trends

Principles: What are the actual tools for metabolomics research?

Limits: How to face the difficulty of data analysis and interpretation?

Applications: What are the perspectives for metabolomics in nutrition?

Future: Can metabolomics tests become "routine" tests?

Dr Elaine Holmes, Imperial College of London, London, United Kingdom

10:00 Nutrigenomics & Ethic-legal-social issues

How consumers select food? Sociological aspects of eating

Consumers' information & acceptance of Nutrigenomics

Genetic profiling & personal DNA analysis: Privacy concerns

Pr Ulf Görman, Department for Ethics, Lund University, Sweden

10:30 Break & Poster session & visit of exhibition space

11:00 Short oral communications

Last advances and new developments in the field of Nutrigenomics:

Health ingredients, Functional foods and drinks

Innovative materials addressed to researchers and research laboratories

Selected communications:

Metabolite Profiling and its Applications in Nutrition Product and Biomarker Development

S. Kass, Managing Director Metanomics Health, Berlin, Germany

Nutriproteomics Approach To Interpret The Biological Effect Of Soybean Isoflavone In Cell Fate Determination

K. Yoshida, Department of Life Sciences, Meiji University School of Agriculture, Kawasaki, Japan

The Cellular Basis for the Efficacy of Celadrin in the Treatment of Joint Pain and Discomfort

R. Hesslink, Sc.D., Director, Research & Development, Imagenetix, Inc., San Diego, US

In silico prediction of the activator activity of naturally occurring and bioactive forms of phenolic compounds on the Farnesoid X Receptor

C. Blade & al., Departament de Bioquímica i Biotecnologia, Universitat Rovira i Virgili, Tarragona, Spain

Lactoferrin-Enriched Milk Protects Neonatal from a Lethal Challenge with Enterovirus Type 71

C-M Chen & al., Department of Life Sciences, National Chung Hsing University, Taichung, Taiwan
Lactoferrin-Enriched Milk Reduces Need for Antibiotics in Animal Feed and Enhances Offspring Growth Performance
H-L Chen & al., Department of Molecular Biotechnology, Da-Yeh University, Changhwa, Taiwan
Use of a bioreactor to effect the controlled fermentation of goat's milk via *Bifidobacterium animalis* and *Lactobacillus acidophilus*
M. Kongo, Departamento de Biologia, Unversidad dos Açores, Portugal

Proteomic Analysis of Cognitive Impairment Induced by Zinc Deficiency
Y.G. Jiang & al., Institute of Hygiene & Environmental Medicine, Tianjin, P.R China

12:00 Poster session

Antioxidant activity of *Quercus suber* leaf extracts
C. Santos et al, Disease and Stress Biology Laboratory, Oeiras, Portugal
Tri E tocotrienol supplementation reduced DNA damage and improved oxidative status in healthy older adults
W. Ngah et al., Department of Biochemistry, Medical Faculty, Universiti Kebangsaan, Malaysia

Obesity risk linked to the snp gln27glu of the adrb2 gene interacts with sugar sweetened beverages consumption in children

Marti A et al., University of Navarra, Pamplona, Spain.
Virgin olive oil consumption interacts with the 12ala allele of the ppar γ gene on waist circumference in males

Marti A et al., for the PREDIMED Project. Department of Nutrition and Food Sciences, Physiology and Toxicology, University of Navarra, Spain

Anticancer effect of chlorella vulgaris hot water extract via apoptosis signaling pathway

Y. Yusof et al., Department of Biochemistry, Medical Faculty, Universiti Kebangsaan, Malaysia

Proanthocyanidins improve triglyceride metabolism in obese rats

H. Quesada et al., Nutrigenomics Group. Department of Biochemistry and Biotechnology. Rovira i Virgili University

Effect of gamma-tocotrienol and alfa-tocoferol on proteins of the apoptotic pathway in neurons

M. Mazlan et al., Department of Biochemistry, Medical Faculty, Universiti Kebangsaan, Malaysia

Depletion of intracellular zinc induces down-regulation of Uch-L1 and CREB in cultured hippocampal neurons

Y.G. Jiang, Institute of Hygiene & Environmental Medicine, Tianjin, P.R China

A Proprietary Mixture of Modified Cellulose May Reduce the Risk for Metabolic Syndrome by Altering Substrate Utilization in the Liver and Skeletal Muscle

Robert Hesslink, Sc.D., Director, Research and Development, Imagenetix, Inc., San Diego, CA, USA

Antioxydants in Nutrition and health

S.b. pajovic et al., Laboratory of Molecular Biology and Endocrinology, Vinča Institute of Nuclear Sciences, Belgrade, Serbia

Proanthocyanidins increase gene expression of UCP-1 in mitochondria of brown adipose tissues of obese rats

D. Pajuelo et al., Nutrigenomics Group. Department of Biochemistry and Biotechnology. Rovira i Virgili University.

Methylmetabolomic approach of genomic instability linked with dna hypomethylation biomarkers

I. Turcu et al., University of Bucharest, Faculty of Biology, Dept of Genetics – Microgen – Epigenetics laboratory, Romania

Adipose tissue lipin-1 β expression is positively correlated with carnitine-palmitoyl transferase 1b expression in lean and obese subjects
T Lappalainen et al., Dept of Clinical Nutrition/Food and Health Research Centre, University of Kuopio, Finland

Proanthocyanidins ameliorate proatherogenic profile in HUVEC cells
S. D  a et al. Nutrigenomics Group. Department of Biochemistry and Biotechnology. Rovira i Virgili University, Spain

Innovativeness of the Polish Food Sector – Links between Industry and Science

I. Szczepaniak, M. Wigier, National Research Institute of Agricultural and Food Economics (IERiGŻ-PIB), Warsaw, Poland

Single nucleotide polymorphisms in MYO9B and Gluten Allergy Incidence in A Crohn's Disease Population in New Zealand

P.A. Dryland et al., Discipline of Nutrition, Faculty of Medical & Health Sciences, The University of Auckland, Auckland, New Zealand

Micro-array ANALYSIS of gene expression in obesity: identification of potential targets for nutritional interventions

D. De Groote et al., PROBIOX SA, Campus Universitaire du Sart-Tilman, Li  ge Belgium

Effects of Functional Foods With Vegetal Bioactive Ingredients In The Metabolic Syndrome

S Dragan et al., University of Medicine and Pharmacy Timisoara, Romania

Genetic predisposition to metabolic disorders and young athletes' nutrition

N.D Golberg et al., St-Petersburg Research Institute of Physical Culture, St. Petersburg, Russia

Action of royal jelly in the cell

P. Jamnik et al., University of Ljubljana, Biotechnical Faculty, Food Science and Technology Department, Chair of Biotechnology, Ljubljana, Slovenia

Grape-seed derived procyanidins normalize adiponectinemia on high-fat diet induced obesity

G. Montagut et al., Dept de Bioqu  mica i Biotecnologia. Universitat Rovira i Virgili, Tarragona, Spain

12:30 Lunch

14:00 Roundtable discussion in the presence of speakers & the scientific committee

Personalised nutrition: New wave for diseases prevention and wellbeing: science or fiction?

Synergies and confrontations between the scientific & industrial visions of Nutrigenomics

Where is the place of the consumer?

14:45 Conclusion by Dr Marvin Edeas, the chairman of the scientific committee

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