



18-19 May 2006, Maastricht, The Netherlands

6th International Masterclass Nutrigenomics

“From molecular nutrition to prevention of disease:
The stepwise integration of nutrigenomics disciplines,
the young scientists view.”

organized by NUTRIM (part of the Graduate School VLAG) in co-operation with
the Division of Human Biology-University Maastricht

Background

Nutrigenomics in the practical sense is a multidisciplinary science which involves molecular nutrition, transcriptomics, proteomics, metabolomics and genetics. Bioinformatics is the medium to extract knowledge from all experimental observations. However, because these disciplines are still under development, most nutrigenomics studies today are confined to using a single genomics approach for studying nutrient-dependent gene expression. Transcriptomics and genetics seem most developed and are therefore most frequently applied in nutrigenomics. Yet, in the future, the real understanding of how nutrition interacts with our genes has to come from a further integrated approach. It can be expected that the integration process will occur stepwise and that novel methods will originate from this. Transcriptomics and genetics have already been combined to what is referred to as “genetical genomics”, the combination of genetic mapping of trait loci with RNA expression data to search for nutrition-regulated genes. The question is what combinations of other disciplines will evolve in the near future. Will transcriptomics and proteomics be linked next or is it the combination of transcriptomics with metabolomics? What novel methods and what type of information will this bring about? During the masterclass, we will evaluate the factors that contribute to this process of discipline integration, highlight the present status and develop a view of the near future inter-disciplinary developments in nutrigenomics. The aim is to publish this young-scientists view on the NuGO net.

Course content

The masterclass will include a number of lectures of specialists in the field describing the present state of the different nutrigenomics approaches with a well-founded view on near-future developments. Applicants can be asked to present their own work, which will then be discussed in the light of a multidisciplinary approach. Guided by a list of topics and questions, the applicants will obtain information from the internet and from the scientific literature. This will allow them to develop and present a view on the most likely, most needed, and essential interdisciplinary approaches of the near future nutrigenomics area. Attention will be given to possible consequences for society. All information will be combined to a young nutrigenomics scientists report

Participants

PhD students or Postdocs working on Nutrigenomics (nutritional genomics and genetics) projects and with a strong background in nutrition, biochemistry, physiology, molecular biology or a comparable discipline.

Organization

Prof. Edwin Mariman

Maastricht University - Division of Human Biology

Mrs. Yvonne Sondejker

NUTRIM

Other faculty

* Dr. Johan Renes, Dr. Jonathan van Tilburg and Dr. Chris Evelo, Maastricht University

* Prof. Michael Müller, Wageningen University

* Dr. Ben van Ommen, TNO-Zeist

Master Lecturer

Dr. Dominique Langin, INSERM, Toulouse, France



Provisional Programme

First day

*Specialist lectures on the application and expected developments of the separate genomics approaches and on bioinformatics in nutrigenomics studies.

*Master lecture on the present state and future developments of the combined practical disciplines.

*Presentations and discussions of own research from applicants including their view on expected/needed developments in nutrigenomics.

*Course diner

Second day

*Presentations by applicants continued.

*Guided internet search on developments in nutrigenomics and their possible impact for society.

*Presentations of the findings and views.

*Compose a visionary young nutrigenomics scientists report

Course details

Duration/Language:

The Masterclass will be held from 18-19 May 2006 (2 days) and conducted in English.

Venue/accommodation:

Maastricht University, Universiteitssingel 40, Room 0.771(Tongerenzaal). The UM-building is situated opposite the Randwijck railway station.

At the [Hotel L'Empereur](#) (Stationsstraat 2 Maastricht, opposite Central Station) rooms have been taken in reservation. Single room is €99,50, double room €122 all including breakfast.

Fee:

The course fee is €550. Fee includes 1 dinner, lunches and course material. Overnight stay is not included.

Non-NUTRIM/VLAG PhD-Students pay €250. VLAG PhD-Students pay the usual fee for NUTRIM-courses (€150), NUTRIM-participants are free of charge.

Registration/Information:

Apart from the application form applicants have to submit an abstract of their ongoing research (0,5 A-4) as well as a letter describing their motivation to participate in this course and how their research work will benefit from participation.

Applications should be sent before April 29th to Y.Sondeijker, y.sondeijker@nutrim.unimaas.nl

You will be notified on acceptance of your registration and you will be sent instructions for payment..

REGISTRATION FORM

**6th Masterclass Nutrigenomics
Maastricht, 18-19 May 2006**

Name.....

Organization.....

Position.....

Address..... PostalCode/City.....

Telephone..... Fax.....

E-mail:

Please reserve accommodation:

Date of arrival..... Date of departure.....

Single room Double room

Signature..... Date.....

Return by fax or by mail to: NUTRIM, Mrs. Yvonne Sondeijker, P.O. Box 616, 6200 MD Maastricht, The Netherlands, faxnr. +31 43 3670286 **before APRIL 29th 2006**. You may also use the registration form at

<http://www.nutrim.unimaas.nl/nl/03.html>

