



# Early Nutrition Programming for Adult Health

Project Number: FOOD-CT-2005-007036

For further information visit - [www.metabolic-programming.org](http://www.metabolic-programming.org)



## THEME 6 TRAINING WORKSHOP

### Foods for the XXI century

## BIOACTIVE PROTEINS AND PREBIOTICS AS FUNCTIONAL INGREDIENTS: New insights into their functionality and mechanism of action

### Preliminary programme

#### OBJECTIVES

The concept of functional food ingredients has changed drastically the science of nutrition in a way that functional ingredients by themselves promote optimal health.

Emerging knowledge gained from extensive research on their functional effects and mechanisms of action offers new perspectives for the development of foods which may, on the one hand, be helpful to reduce the risk of certain diseases, and on the other hand, improve the quality of life.

The aim of the workshop is to provide updated knowledge on the functionality of **proteins with biological activity** and the **prebiotics inulin and oligofructose** and their relevance for improving human's health. Special attention will be paid on subpopulation groups that may specifically benefit from the use of these compounds in their foods, e.g. infants.

The workshop is organized as part of the DG Research 6th Framework Research Project **EARNEST** (Early nutrition programming- long term follow up of efficacy and safety trials and integrated epidemiological, genetic, animal, consumer and economic research, Food-CT-2005-007036).



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## PROGRAMME

The programme will include the following topics of interest:

### The role of proteins in infant health and development

9:00-9:30 Milk proteins with a nutritional role in infants: alpha-lactalbumin

9:35-10:05 Anti-inflammatory components in mother's milk

10:10-10:40 The use of new biotechnological tools for the production of proteins with a nutritional interest

*Dr. Frank Pieper, Pharming, The Netherlands*

10:45-11:15 Functional properties of bile-salt stimulated lipase and new applications in cystic fibrosis therapy.

*Dr. Mats Stromqvist, Arexis, Sweden*

11:15-12:00 Coffee break

### Ingestion of prebiotic oligosaccharides in infants

12:00-12:40 Human milk oligosaccharides *versus* prebiotic oligosaccharides - are there similarities?

*Dr. Clemens Kunz, University of Giessen, Germany*

12:45-13:15 Role for inulin and oligofructose as prebiotics in infant foods

*Dr. Ramón Tormo, Hospital Vall d'Hebrón, Spain*

13:30-15:00 Lunch

### Inulin and oligofructose as functional ingredients to improve human health

15:00-15:30 Inulin and oligofructose as prebiotic compounds

*Dr. Kieran Tuohy, University of Reading, UK*

15:35-16:05 The effects of inulin and oligofructose on calcium absorption and bone health

*Dr. Douwina Bosscher, Orafti, Belgium*

16:10-16:40 The SYNCAN project: the protective effects of inulin and oligofructose against colonic cancer

*Dr. Jan Van Loo, Orafti, Belgium*

16:45-17:15 Effects of inulin and oligofructose on immune response and prevalence of infection

*Dr. Francisco Guarner, University Hospital Vall d'Hebron, Spain*

### Closing session

18:00-18:40 Early nutrition programming for adult health: the EARNEST project

*Prof. Dr. Berthold Koletzko, University of Munich, Germany*



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## Place and date

**Place:** Institut Químic de Sarrià ([www.iqs.es](http://www.iqs.es))  
C/ Vía Augusta 390  
08017 Barcelona, Spain  
**Date:** Thursday, 13th October 2005

## Registration

Registration will be free for EARNEST members. Lunch will be offered at the same institute (recommended, cost 15 €).

Quote of inscription: 120 € (lunch included)  
Members of AIQS will obtain 20% of discount.

There are several grants available for those students that provide a certificate.