



Improving Health Properties of Food by Sharing our Knowledge on the Digestive Process

This workshop event will be hosted by **INFOGEST**

Date: 14th April 2016, 09:00 to 13:00

Understanding the effect of food on human health is a current research priority in Europe but it is also a strong consumer demand. People want to be aware of the effects on their body of the food they eat. After ingestion, food will be broken down in the gut releasing components (peptides, amino acids, minerals, fatty acids...) that, beside their nutritional properties, may have a biological action. The Infogest COST Action recently ended but many of the issues that the network addressed are still unresolved.

INFOGEST aimed to improve the current scientific knowledge on how foods are disintegrated during digestion. This improved knowledge is helping the scientific community and the industry to design new foods with improved nutritional and functional properties.

The aim of this event is to discuss a number of outstanding issues related to the Infogest objectives and of interest to the food research community.

The workshop will focus on finding the gaps in current knowledge of how to accurately simulate digestion in the human gastrointestinal tract. In Infogest a harmonised static digestion protocol was produced and disseminated. Can this protocol be validated against human data? If the protocol can't sufficiently mimic what happens *in vivo* then how should the protocol be improved? Can the protocol be modified to take account of different age groups?

The discussion will cover the following topics:

WG1: Validating *in vitro* protocols with *in vivo* data.

WG2: Developing a protocol for a semi-dynamic simulation of adult human digestion.

WG3: Extending *in vitro* digestion modelling and standardization to other age groups, namely infants and the elderly.

There will be some short introductory talks on each topic followed by three round table discussions of the issues relating to each topic with the aim of providing a list of the steps needed to achieve required the goals

DRAFT Programme

09:00-09:15 Introduction (Didier Dupont)

09:15-09:30 Validating *In vitro* with *in vivo* findings: progress and issues

09:30-09:45 Developing a protocol for a semi-dynamic simulation of adult human digestion: State of the art and practicalities

09:45-10:00 Extending *in vitro* digestion to other age groups: Progress and possibilities

10:00-10:15 **Coffee break**

10:15-12:30 Parallel sessions discussing the different topics

1. Validating *in vitro* protocols with *in vivo* data (Discussion led by Didier Dupont)
2. Developing a protocol for a semi-dynamic simulation of adult human digestion (Discussion led by Alan Mackie)
3. Extending *in vitro* digestion modelling and standardization to other age groups, namely infants and the elderly (Discussion led by Uri Lesmes)

12:30-13:00 Summary of progress in all three workgroups

Infogest workshop organisers

Didier Dupont

Alan Mackie

Uri Lesmes

Infogest workshop Sponsors

TBA