Design and development of REAlistic food Models with well-characterised micro- and macro-structure and composition

Fact Sheet

Project Information

DREAM
Grant agreement ID: 222654

Project website

Status
Closed project

Start date
1 May 2009
End date
31 October 2013

Funded under
FP7-KBBE

Overall budget
€ 8 521 333,20

EU contribution
€ 5 995 786

Coordinated by
INSTITUT NATIONAL DE RECHERCHE POUR L'AGRICULTURE, L'ALIMENTATION ET L'ENVIRONNEMENT
France

This project is featured in...
Objective

DREAM a trans-disciplinary partnership involving two multinationals and nine countries will develop realistic, physical and mathematical, food models for use as standards to be exploited across all major food categories to facilitate development of common approaches to risk/benefit assessment and nutritional quality in food research and industry. These models will enhance knowledge on process-structure-property relationships from the molecular to macroscopic level and facilitate creation of generic food matrices with functional and nutritional properties based on tailored microstructure. To address as wide a range of food products as possible, 4 generic structure groups will be used representing plant-based foods; meat; dairy and bakery products; for each, the most relevant types of products will be selected using criteria including structural characteristics and industrial and societal needs, ensuring that benefits/risks, economic importance and sustainability are taken into consideration. The model development will be conducted in close collaboration with food manufacturers through a specification-based approach. The objective of the mathematical approach is to realise a complete dynamic description of food processing using an innovative strategy exploiting most recent advances in cognitive and complex system sciences to allow the generalised methodologies to be extended to other food products. Models and protocols developed within DREAM will be disseminated by expert partners via existing channels (EFFoST, ETP and national platforms, CIAA and national federations, EFSA, national regulatory bodies) to be used by scientists, SMEs and multinationals to improve nutritional quality and benefit-risk management of the food chain. The involvement of ETP Food for Life will ensure the approach is extended to all foods by 2015. Training for young members of DREAM will equip them with scientific and other complementary skills necessary for career development within the ERA.

Field of science

/agricultural sciences/animal and dairy science/dairy
/social sciences/other social sciences/social sciences interdisciplinary/sustainable development
Programme(s)

Topic(s)

Call for proposal
FP7-KBBE-2007-2A

Funding Scheme
CP-IP - Large-scale integrating project

Coordinator

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INSTITUT TECHNIQUE DU LAIT ET DES PRODUITS LAITIERS
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Haller U 2
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Andras Sebok (Dr.)

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INRAE TRANSFERT SAS
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EU contribution
€ 349 973
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**Administrative Contact**
Tuong Bao Diep (Dr.)

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**INSTITUT DE RECERCIA I TECNOLOGIA AGROALIMENTARIES**

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<td>Other</td>
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**ACTALIA ASSOCIATION**

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**QUADRAM INSTITUTE BIOSCIENCE**

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**EU contribution**
€ 409 998
Quadram Institute Bioscience
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NEMZETI AGRARKUTATASI ES INNOVACIOS KOZPONT

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- United Kingdom
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