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BIOMarkers of Robustness of Metabolic Homeostasis for Nutrigenomics-derived Health CLAIMS Made on Food

Fact Sheet

Project Information

BIOCLAIMS

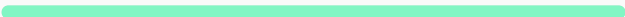
Grant agreement ID: 244995

[Project website](#) 

Project closed

Start date
1 March 2010

End date
28 February 2015



Funded under
Specific Programme "Cooperation": Food,
Agriculture and Biotechnology

Total cost
€ 7 818 711,20

EU contribution
€ 5 999 211,00

Coordinated by
UNIVERSITAT DE LES ILLES
BALEARS
 Spain

Objective

The food and health relationship focuses on maintenance of optimal health, both in terms of physiology and new European legislation. Yet, most accepted biomarkers quantify (intermediate) disease endpoints or damage. This has led to major problems in demonstrating health benefits and establishing health claims, and blocks competitive economic and health developments in the food sector. BIOCLAIMS

develops new biomarkers by exploiting the new concept of “health biomarkers” through quantification of the robustness of the homeostatic mechanisms involved in maintaining optimal health, based on the assumption that the ability to maintain homeostasis in a continuously challenged environment and changing physiology is key for healthy ageing. Mechanisms involved will be investigated during a series of food interventions in animal models and humans using “predisposed” conditions. Human models of presumed impaired robustness in maintaining metabolic and vascular health will be employed to study the responses of established and novel biomarkers to the challenging of homeostasis and to selected food interventions. Both advanced analytical methodology including nutrigenomics tools (transcriptomics, metabolomics, fatty acid composition, adipokine profile, macromolecule damage) and “whole body” physiological assessments will be exploited to derive a series of new biomarkers. Gender differences will be addressed. BIOCLAIMS thus delivers a series of robust biomarkers predictive of a healthy metabolic phenotype during ageing, based on stressors of homeostasis. These biomarkers will be fully characterized and evaluated for practical application in human nutrition, and compared to traditional ones. The consortium consists of 11 teams, balanced in gender and geographical distribution, with track records in animal physiology, human studies in the relevant health areas, nutrigenomics and new analytical approaches, and scientific assessment of health claims in the EU.

Fields of science (EuroSciVoc)

[natural sciences](#) > [biological sciences](#) > [biochemistry](#) > [biomolecules](#) > **[lipids](#)**

[medical and health sciences](#) > [health sciences](#) > **[nutrition](#)**

[medical and health sciences](#) > [basic medicine](#) > [physiology](#) > **[homeostasis](#)**



Programme(s)

[FP7-KBBE - Specific Programme "Cooperation": Food, Agriculture and Biotechnology](#)

Topic(s)

[KBBE-2009-2-2-03 - Development of biomarkers for health-promoting functions](#)

Call for proposal

Funding Scheme

[CP-IP - Large-scale integrating project](#)

Coordinator



UNIVERSITAT DE LES ILLES BALEARS

EU contribution

€ 998 531,00

Total cost

No data

Address

CARRETERA DE VALLDEMOSSA KM 7.5
07122 Palma De Mallorca

 Spain 

Region

Este > Illes Balears > Mallorca

Activity type

Higher or Secondary Education Establishments

Links

[Contact the organisation](#)  [Website](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Participants (10)



WAGENINGEN UNIVERSITY

 Netherlands

EU contribution

€ 498 043,00

Address

DROEVENDAALSESTEEG 4
6708 PB Wageningen 

Region

Oost-Nederland > Gelderland > Veluwe

Activity type

Higher or Secondary Education Establishments

Links

[Contact the organisation](#)  [Website](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Total cost

No data



CENTRE TECNOLOGIC EN TECNOLOGIES DE LA NUTRICIO I LA SALUT

 Spain

EU contribution

€ 481 328,00

Address

AVDA DE LA UNIVERSITAT 1

43204 REUS 

Activity type

Research Organisations

Links

[Contact the organisation](#)  [Website](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Total cost

No data



FYZIOLOGICKY USTAV AKADEMIE VED CESKE REPUBLIKY VEREJNA VYZKUMNA INSTITUTE (VVI)

 Czechia

EU contribution

€ 488 849,00

Address

VIDENSKA 1083

142 20 Praha 4 

Activity type

Higher or Secondary Education Establishments

Links

[Contact the organisation](#)  [Website](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Total cost

No data



DEUTSCHES INSTITUT FUER ERNAHRUNGSFORSCHUNG POTSDAM REHBRUECKE

 Germany

EU contribution

€ 484 998,00

Address

Arthur-Scheunert-Allee 114-116

14558 Nuthetal 

Region

Brandenburg > Brandenburg > Potsdam-Mittelmark

Activity type

Research Organisations

Links

[Contact the organisation](#)  [Website](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Total cost

No data



UNIWERSYTET JAGIELLONSKI COLLEGIUM MEDICUM

 Poland

EU contribution

€ 454 007,00

Address

Sw Anny, 12
31008 KRAKOW 

Activity type

Higher or Secondary Education Establishments

Links

[Contact the organisation](#)  [Website](#) 
[Participation in EU R&I programmes](#) 
[HORIZON collaboration network](#) 

Total cost

No data



UNIVERSITAET GRAZ

 Austria

EU contribution

€ 685 169,00

Address

UNIVERSITATSPLATZ 3
8010 Graz 

Region

Südösterreich > Steiermark > Graz

Activity type

Higher or Secondary Education Establishments

Links

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[HORIZON collaboration network](#) 

Total cost

No data



UNIVERSITY OF WARWICK

 United Kingdom

EU contribution

€ 477 699,00

Address

KIRBY CORNER ROAD UNIVERSITY HOUSE
CV4 8UW COVENTRY 

Region

West Midlands (England) > West Midlands > Coventry

Activity type

Higher or Secondary Education Establishments

Links

[Contact the organisation](#)  [Website](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Total cost

No data



UNIVERSITY OF SOUTHAMPTON

 United Kingdom

EU contribution

€ 464 737,00

Address

Highfield
SO17 1BJ Southampton 

Region

South East (England) > Hampshire and Isle of Wight > Southampton

Activity type

Higher or Secondary Education Establishments

Links

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[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Total cost

No data



MEDIZINISCHE UNIVERSITÄT GRAZ

 Austria

EU contribution

€ 506 984,00

Address

NEUE STIFTINGTALSTRASSE 6

8010 Graz 

Region

Südösterreich > Steiermark > Graz

Activity type

Higher or Secondary Education Establishments

Links

[Contact the organisation](#)  [Website](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Total cost

No data



NEDERLANDSE ORGANISATIE VOOR TOEGEPAST NATUURWETENSCHAPPELIJK ONDERZOEK TNO

 Netherlands

EU contribution

€ 458 866,00

Address

ANNA VAN BUERENPLEIN 1

2595 DA Den Haag 

Activity type

Research Organisations

Links

[Contact the organisation](#)  [Website](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Total cost

No data

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European Union, 2025

