



BIOMARKERS AND HEALTH CLAIMS ON FOOD

BIOCLAIMS MEETING WITH STAKEHOLDERS

Palma de Mallorca, Spain
12-13 February 2015

Who has interest to attend?

Representatives of food industry companies

SMEs in the field of food-health

Policy regulators

Marketing specialists on food

Academics

Please note:
**Free of charge,
limited places**

Registration:

www.alimentomica.com/BioclaimsMeeting/register.php

Organizing committee:

Andreu Palou^{1,2,3}
(Coordinator)

Susanne Klaus⁴ & Philip Calder⁵
(Chairs of BIOCLAMIS-WP7)

Ben van Ommen⁶
(Chair of BIOCLAMIS-WP5)

*M. Luisa Bonet^{1,2,3}, Nuria Granados³, Paula Oliver^{1,2,3},
Mariona Palou⁷, Pere Josep Pons¹, Catalina Picó^{1,2,3} & Joan Ribot^{1,2,3}*
(Coordination team)

Andreu Palou-March⁷
(Technical Secretariat)

¹, University of the Balearic Islands (UIB), Palma de Mallorca, Spain

², Laboratory of Molecular Biology, Nutrition and Biotechnology of the UIB

³, Centro de Investigación Biomédica en Red (Biomedical Research Center Network) Fisiopatología de la Obesidad y Nutrición (CIBEROBN)

⁴, German Institute of Human Nutrition (DIfE), Potsdam, Germany

⁵, Institute of Human Nutrition, School of Medicine,
University of Southampton (USoton), UK.

⁶, TNO Quality of Life, Zeist, The Netherlands

⁷, Alimentómica SL (EBT n° 001 of the UIB), Palma de Mallorca, Spain



BIOCLAIMS partners:

*Partner 1 (Coordinator): Andreu Palou
(University of the Balearic Islands and CIBERobn, SPAIN)*

*Partner 2: Jaap Keijer
(Wageningen University, THE NETHERLANDS)*

*Partner 3: Lluís Arola
(CTNS and Universitat Rovira i Virgili, Tarragona, SPAIN)*

*Partner 4: Jan Kopecky
(Academy of Sciences of the Czech Republic, Prague, CZECH REPUBLIC)*

*Partner 5: Susanne Klaus
(German Institute of Human Nutrition, Potsdam, GERMANY)*

*Partner 6: Aldona Dembinska-Kiec
(Jagellonian University, Krakow, POLAND)*

*Partner 7: Brigitte Winklhofer-Roob
(Karl Franzens University of Graz, AUSTRIA)*

*Partner 8: Paul J. Thornalley
(University of Warwick, Coventry, UK)*

*Partner 9: Philip C. Calder
(University of Southampton, UK)*

*Partner 10: Johannes Roob
(Medical University of Graz, AUSTRIA)*

*Partner 11: Ben van Ommen
(TNO Quality of Life, Zeist, THE NETHERLANDS)*

BIOCLAIMS is the first European large collaborative R+D project (Grant agreement no. 244995) addressing the search for new biomarkers as the basis for future health claims made on food, a main bottle neck for expanding the food-health development.

The food and health relationship focuses on maintenance of optimal health, both in terms of physiology and new European legislation (Regulation EC Nr. 1924/2006). Yet, most accepted biomarkers quantify 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” and associated issues 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 are 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 (caloric restriction, obesity, a pro-inflammatory genotype, an impaired renal function, or a combination thereof) 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 and “whole body” physiological assessments are going to be exploited to derive a series of new biomarkers.

PROGRAMME

Thursday 12th February 2015

08.15-08.45h Registration

08.45-09.00h **Welcome and Inauguration****Session 1: BIOCLAIMS outcomes: *biomarkers and biological plausibility****The session is devoted to the presentation of selected candidate biomarkers and related food-health mechanisms as central outcomes of the BIOCLAIMS project.*S1-Part I Chairs: *Ben van Ommen* (TNO, THE NETHERLANDS)
& *M. Luisa Bonet* (University of the Balearic Islands, SPAIN)09.00-09.10h BIOCLAIMS project strategy: Nutrigenomic-based biomarkers
Andreu Palou (University of the Balearic Islands and CIBERObn, SPAIN)09.10-09.30h Challenge tests, health and biomarkers
Jaap Keijer (Wageningen University, THE NETHERLANDS)09.30-09.50h Biomarkers of adipose tissue health and expandability and
crosstalk with muscle
Susanne Klaus (German Institute of Human Nutrition, Potsdam,
GERMANY)09.50-10.10h Acyl carnitines and amino acids as biomarkers of health
Jan Kopecky (Academy of Sciences of the Czech Republic,
Prague, CZECH REPUBLIC)10.10-10.30h Lysophospholipids as biomarkers of trends to dyslipidemia
Lluís Arola & Josep M. del Bas (CTNS and Universitat Rovira i
Virgili, Tarragona, SPAIN)10.30-10.50h **Coffee break**S1-Part II Chairs: *Susanne Klaus* (German Institute of Human
Nutrition, GERMANY) & *Alejandro Cifuentes* (Institute of Food
Science Research, CSIC-UAM, SPAIN)

- 10.50-11.10h Blood cell transcriptomic-based early biomarkers of adverse programming effects on obesity and related risk factors
Catalina Picó & Andreu Palou (University of the Balearic Islands and CIBERobn, SPAIN)
- 11.10-11.30h The key biomarkers of inflammation
Philip C. Calder (University of Southampton, UK)
- 11.30-12.05h Emergence of dicarbonyl stress as a key mediator of metabolic, vascular and renal health decline and related biomarkers revealed in BIOCLAIMS. New findings on Nrf2 regulation
Paul Thornalley & Naila Rabbani (University of Warwick, Coventry, UK)
- 11.05-12.30h The human super-healthy model in the substantiation of biomarkers of health
Brigitte Winklhofer-Roob & Johannes Roob (Karl Franzens University of Graz & Medical University of Graz, AUSTRIA)
- 12.30-12.50h Selected nutrient-sensitive biomarkers of metabolic syndrome in human
Beata Kieć-Wilk, Małgorzata Malczewska-Malec & Aldona Dembińska-Kieć. (Jagellonian University, Krakow, POLAND)
- 12.50-13.10h Knowledge and data driven development of nutrigenomics based biomarkers of robustness
Suzan Wopereis (TNO Quality of Life, Zeist, THE NETHERLANDS)
- 13.10-13.30h **RECAPITULATION AND DISCUSSION**
Chairs: *Ben van Ommen* (TNO, THE NETHERLANDS) & *Andreu Palou* (University of the Balearic Islands, SPAIN)

Lunch time**Session 2. Industry challenges & Regulatory aspects**

This session considers the novelties, pending regulatory topics and controversial issues in relation to health claims and biomarkers, together with the novel industry strategies to enter into the space of food and health, and combines invited speakers from administration EC/member states, industries, and other stakeholders.

S2-Part I Chairs: *Andreu Palou* (University of the Balearic Islands, SPAIN) & *Manuel Portero-Otín* (University of Lleida, SPAIN)

- 15.00-15.20h Health claims: status, claims on hold, harmonization and next steps
Basil Mathioudakis (Head of the Commission's Nutrition, Food Composition & Information Unit. European Commission, Brussels, BELGIUM)

- 15.20-15.40h Botanicals. Harmonization? Alternative approaches on Health Claims bypassing the NHCR?
Jean Savigny (Senior Partner, Keller and Heckman, Brussels, BELGIUM)
- 15.40-16.00h Health Claims & Labelling: Law and Practice or how to combine both Regulations
Montserrat Prieto (Food Law Department Director of the Spanish Federation of Food and Drink Industries (FIAB), Madrid, SPAIN)
- 16.00-16.20h Labelling, advertising and presentation of foods. Compliance and infringements
Vicente Rodríguez-Fuentes (Chair of European Food Law Association (EFLA), Legal Agrifood Abogados, Sevilla, SPAIN)
- 16.20-16.50h **DISCUSSION**
- 16.50-17.15h **Coffee break**

Session 3. Health claims and biomarkers in EFSA and beyond. Towards Health Claims for population subgroups and individuals

This session considers health claims and biomarkers for population subgroups or individuals and other potential tendencies

S3-Part I Chairs: *Mariona Palou* (Alimentómica, SPAIN) & *Josep Mercader* (Alimentómica, SPAIN)

- 17.15-17.35h Nutrition of Mothers and Young Children in the First 1000 days: Learning's from Human Milk and what to Apply?
Bernd Stahl (Director Human Milk Research. Danone Nutricia Research, Utrecht, THE NETHERLANDS)
- 17.35-17.55h Personalized claims?: Riboflavin in the lowering of high blood pressure, a novel gene-nutrient interaction
Sean Strain (Northern Ireland Centre for Food and Health and University of Ulster, UK; Chair of the Working Group on Health Claims, EFSA-NDA Panel)
- 17.55-18.15h Health claims and probiotics: what and how?
Yolanda Sanz. (Spanish National Research Council (CSIC) and University of Valencia, SPAIN; Vice-chair of the EFSA-NDA Panel)
- 18.15-19.00h **DISCUSSION**

Friday 13th February 2015

Session 4. Further interaction and beyond

This session will try a) first to introduce future trends, and an open-mind perspective on new topics combining health claims with other values and consumer needs and expectations; b) Multiple direct short interactions (Speed dating) between stakeholders will be propitiated

S4-Part I Chairs: *Lluís Arola (CTNS, SPAIN) & Alfredo Martínez (University of Navarra, SPAIN)*

09.00-09.20h Strategies and challenges in fat related health claims // Driving Innovation and Value based on health and sustainability

Diana Roig (Nutrition and Health Manager, Unilever-SPAIN)

09.20-09.40h Senifood project, health claims and industrial R+D

Montserrat Rivero (Scientific General Director. Grupo ORDESA)

09.40-10.00h Smart-foods and targeted food supplements

Francisca Serra (R+D Director. Alimentómica SL)

10.00-10.20h New strategies on health claims. Replacing food components as basis for health claims

Eric Grande (Regulatory Affairs Director. Directeur des Affaires Réglementaires. Groupe Lactalis)

10.20-10.40h **DISCUSSION**

S4-Part II: **RESEARCH AND COMMUNICATION FACILITIES**

Chairs: *Brigitte Winklhofer-Roob (Karl Franzens University of Graz, AUSTRIA) & Rosa María Lamuela (University of Barcelona, SPAIN)*

10.40-11.00h CIBER: a new consortium for human biomedical research studies in Spain. Multicenter facilities

Manuel Sánchez (General Manager of CIBER -Consortio Centro de Investigación Biomédica en Red-, Madrid, SPAIN)

11.00-11.20h (pending)

11.20-11.40h Beyond claims on health: "Life style, food, health, beauty and happiness. How to combine all with science in a single message?"

Miguel Mira (Director of Communication and External Relations of the Coca Cola Company in Iberia, Madrid. SPAIN)

11.40-11.50h **Short break**

11.50-12.50h **Speed Dating & Poster Party**

Chairs: **Naila Rabbani** (University of Warwick, UK) & **Jaap Keijer** (Wageningen University, THE NETHERLANDS)

Posters: The abstracts explaining a range of varied issues (industry presentations, scientific outputs, regulatory aspects, stimulating collaboration, etc.) will be exposed (posters) and discussed.

Speed dating (multiple single persons meeting one-on-one in around 5 minutes timed sessions so that singles can assess further whether to have subsequent appointments) will be arranged, combined with the poster exhibition.

SPECIFIC SATELLITE SESSIONS

13.00-13.45h CIBEROBN (Program on "New strategies and biomarkers in the prevention and treatment of obesity and eating disorders")

13.45-14.30h MARCASALUD Spanish Network of Excellence on Nutrigenomic Biomarkers and Health Claims



Universitat
de les Illes Balears

Laboratori
de Biologia Molecular,
Nutrició i Biotecnologia

BIOCLAIMS.eu

Supporting health claims on food



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Centro de Investigación Biomédica en Red
Fisiopatología de la Obesidad y Nutrición



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Venue:

Auditorium *Jaume Cladera i Cladera*
Escola d'Hoteleria de les Illes Balears

Building *Arxiduc Lluís Salvador*
University Campus
Cra. Valldemossa, km 7.5
Palma de Mallorca, Spain

Please note:
Free of charge,
limited places

Technical Secretariat:

www.alimentomica.com/Bioclaims (information)

www.alimentomica.com/BioclaimsMeeting/register.php (registration)