



Final Conference:

Personalised nutrition approaches for the prevention of diet-related diseases: biomarkers, digital tools & omics sciences

Friday 29th April 2022

Consortium:

eurecat



Southampton UNIVERSITY OF

alimentomica



simple
feast

LEITAT
managing technologies

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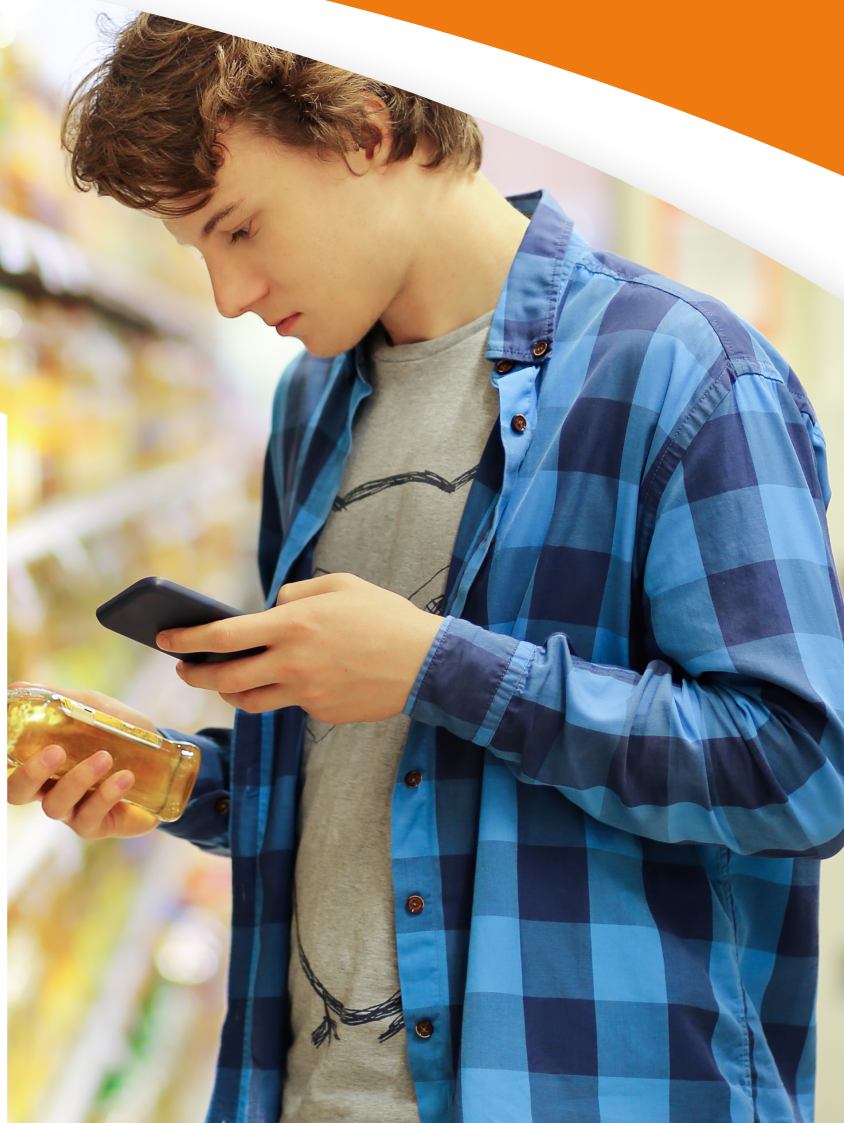
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Final Conference:

Personalised nutrition approaches
for the prevention of diet-related diseases:
biomarkers, digital tools & omics sciences
Friday, 29th, April

The **PREVENTOMICS project**, coordinated by **Eurecat**, is organising its final conference “**Personalised nutrition approaches for the prevention of diet-related diseases: biomarkers, digital tools & omic sciences**”.

The project has led to **personalised nutrition tools aiming at improving health and lifestyle in a sustainable manner**. To prove the effectiveness of digital health tools and precision nutrition solutions, together with functional foods and behavioural change strategies, three interventional studies have been carried out in four different countries.

During the final conference, partners are going to present the outcomes of the research done for the **identification, modelling and assessment of consumer, genetic and circulating biomarkers in personalised nutrition**. On the other hand, we will discuss on digital-based tools to empower precision nutrition and present the conclusions of the project's precision nutrition studies, delivering individualized dietary treatment from multiple perspectives, including the benefits from the participants side, a cost-effectiveness analysis and the role of functional ingredients in tailor-made interventions.

Target audience

- Undergraduate, graduate or PhD students willing to learn a personalised nutritional approaches and digital solutions.
- Researchers in nutrition, omics sciences, precision nutrition from Universities and research centres.
- Professionals from companies in the field of food, nutrition or ICT.
- General public with interest in improving their health in a sustainable manner.

Agenda

9.15 - 10.25 CEST

OPENING PLENARY:
Welcome, keynote
and PREVENTOMICS overview

Chair:

Dr. Josep Ma del Bas
Director of the Nutrition and Health Unit
Eurecat

9.15 - 9.30

**Welcome and introduction
to PREVENTOMICS final conference**

Dr. Josep Ma del Bas
Director of the Nutrition and Health Unit
Eurecat

9.30 - 10.00

The multiple dimensions of precision nutrition

Prof. José Maria Ordovás
Professor of Nutrition and Senior Scientist, Nutrition
and Genomics Lab Director
USDA-Human Nutrition Research Center on Aging,
Tufts University in Boston

10.00 - 10.15

PREVENTOMICS results overview

Dr. Biotza Gutiérrez
PREVENTOMICS coordinator
Eurecat

10.15 - 10.25 CEST

BREAK

10.25 - 11.20h CEST

ROUND TABLE:
Biomarkers in a personalised
nutrition approach

Chair:

Prof. Jaap Keijer
Professor in Human and Animal Physiology
Wageningen University

Participants:

Dr. Claudia Favari
Post-doctoral research fellow
University of Parma

Prof. Francisca Serra
Professor of Nutrition
UIB

Scientific Director
Alimentômica SL

Radu Ghemis
R&D Researcher
Microbiome Engineering Group, LEITAT Technological
Center

Dr. Nuria Canela
Director of the Omic Sciences Unit
Eurecat

Dr. Josep Ma del Bas
Director of the Nutrition and Health Unit
Eurecat

Moderator:

Questions & Answers

Prof. Jaap Keijer
Professor in Human and Animal Physiology
Wageningen University

11.20 - 11.30 CEST

BREAK

Agenda

11.30 - 12.40 CEST

SESSION I:

Digital-based tools to empower precision nutrition and sustained lifestyle changes

Chair:

Dr. Vicent J. Ribas

Research Line Manager for Data Analytics in Medicine
Eurecat

11.30 - 11.40

Consumer experience on digital nutritional tools

Verónica Faulkner

UX Designer & Researcher at User Experience
Euroconsumers Group Service
OCU

11.40-11.55

Recommender system, integration in third-party apps & demo

Dr. Thimios Bothos

Senior Researcher
ICCS-NTUA

11.55 - 12.10

Software to elaborate and deliver a personalized diet

Claudia D'Antonio

Project Manager
METEDA

12.10 -12.25

Do-omics, a behavioural change programme

Sander van Berlo

Director
ONMI

12:25 - 12.40

Questions & Answers session

Dr. Vicent J. Ribas

Research Line Manager for Data Analytics in Medicine
Eurecat

14.05 -14.15 CEST

Deploying PREVENTOMICS system into real nutritional practice & event closure

Dr. Josep Ma del Bas

Director of the Nutrition and Health Unit
Eurecat

12.40 - 14.05 CEST

SESSION II:

Precision Nutrition
for an individualised dietary treatment

Chair:

Prof. Philip Calder

Professor of Nutritional Immunology
University of Southampton

12.40 - 12.55

Evaluation of the algorithm behind PREVENTOMICS

Mar Galofré

Researcher at the Digital Health Unit
Eurecat

12.55 - 13.25

PREVENTOMICS interventional studies' results

Dr. Josep Ma del Bas

Director of the Nutrition and Health Unit
Eurecat

13.25 -13.40

Functional ingredients: making the best choice for an optimal diet

Eduardo Troncoso & Marcos Tomas

R&D manager
Carinsa

13.40 -13.55

Potential costs and effects of personalised nutrition interventions

Milanne Galekop

PhD candidate
Erasmus School of Health Policy and Management

13.55 - 14.05

Questions & Answers session

Prof. Philip Calder

Professor of Nutritional Immunology
University of Southampton

Speakers

In order of appearance



Josep Ma del Bas

Director of the Nutrition
and Health Unit
Eurecat

Degree in Chemistry and Biochemistry. PhD in nutrition and metabolism from Rovira i Virgili University, including visits to Baylor College of Medicine (Houston, USA), Università degli Studi di Milano (Italy) and the University of Liverpool (United Kingdom).

During his research and technology transfer career he has studied the interactions of diet components with metabolic modulation in various human diseases in preclinical and clinical research.



Biotza Gutierrez

Preventomics Coordinator
Eurecat

Degree in Pharmacy and PhD in Pharmaceutical Chemistry. Wide experience in analytical applications (NMR, LC, LC-MS). She is part of Eurecat Proposal and Coordination team, specialising in collaborative R&D management.



José Maria Ordovás

Professor of Nutrition and Senior
Scientist, Nutrition and Genomics Lab
Director
**USDA-Human Nutrition Research Center
on Aging, Tufts University in Boston**

Dr. José Maria Ordovás Muñoz, (born in Zaragoza, Spain) is a Professor of Nutrition and Principal Scientist at the USDA-Human Nutrition Research Center on Aging at Tufts University in Boston, Massachusetts, where he is also Director of the Nutrition and Genomics Laboratory. In addition, he is Professor of Genetics and Pharmacology at the Faculty of Biomedical Sciences. He is also Director of the Precision Nutrition and Obesity Program and leader of the Nutritional Genomics and Epigenomics Group at IMDEA-Food in Madrid. Dr. Ordovás' main research interests focus on the genetic and epigenetic factors that predispose to age-related chronic diseases (i.e., cardiovascular diseases, obesity, and diabetes) and their interaction with environmental and behavioral factors, with special emphasis in the diet.



Jaap Keijer

Professor Human and Animal Physiology
Wageningen University

Prof. Jaap Keijer is full professor and head of Human and Animal Physiology of Wageningen University. He is an molecular physiologist with an interest in deciphering in vivo metabolic pathways and their role in human health. He is a pioneer in transcriptome analysis of dietary interventions in humans and model animal species and has been chair and workpackage leader of various European projects in the field of nutrition and biomarkers.

Speakers

In order of appearance



Claudia Favari

Post-doctoral research fellow
University of Parma

Post-doctoral research fellow at the Human Nutrition Unit, Department of Food and Drug, University of Parma. PhD in Food Science under the supervision of Prof. Del Rio, Claudia's main research interests are (poly)phenols bioavailability and metabolism and associated inter-individual variability, objective dietary intake assessment through food intake biomarkers and personalized nutrition. For her research purposes, she adopts both targeted and untargeted metabolomics approaches.



Francisca Serra

Professor of Nutrition
UIB
Scientific Director
Alimentómica SL

University Professor of Nutrition and Food Science (January 2011), teaches at the University of the Balearic Islands (UIB) since 1990. She is part of the group promoter of the UIB technology-based spin-off Alimentómica SL and holds the position of Director of R&D.

Her research focuses on the study of the molecular basis of obesity, body weight regulation by nutrients, gene-nutrients interaction (nutrigenomics) and the impact of perinatal diet (Epigenetics) on susceptibility to adulthood obesity. She is working on the study of gene variants that affect the risk of obesity and its modulation by bioactives (Nutrigenetics)



Radu Ghemis

R&D Researcher
Microbiome Engineering Group
LEITAT Technological Center.

Radu Ghemis, R&D Researcher in the Microbiome Engineering group, has been involved during the last 6 years in human microbiota research projects, aiming to understand the relationship between changes in the microbiota and the occurrence of pathologies like obesity, osteoarthritis, cancer, and others.



Núria Canela

Director of the Omic Sciences Unit
Eurecat

Doctorate in Pharmacy from the University of Barcelona (2002). Núria Canela has extensive experience in both academic and industrial research and has participated in various scientific and technical platforms and services dedicated to omic sciences (genomics, transcriptomics, proteomics and metabolomics).

She has co-authored various research articles in international journals and her main scientific contributions focus on the field of functional proteomics and on the improvement and integration of information gathered through various omics methodologies, in order to generate a more realistic, holistic view of systems biology.

Through this work, she has accumulated a wealth of experience in a wide range of biotechnologies. Currently, her work at the Omic Sciences Department at Eurecat centres around the application of omics methodologies to the study of biological systems, from the simplest (cell cultures, biological fluids, tissues) to the most complex (microbial communities in the human microbiota).

Speakers

In order of appearance



Vicent J. Ribas

Research Line Manager for Data Analytics in Medicine
Eurecat

Dr. Vicent Ribas Ripoll is head of the Data Analysis in Medicine research line at Eurecat's Digital Health Unit. He is a senior member of the IEEE and is also the coordinator of the Data Analytics in Medicine and Omics Integration research group at AGAUR. He has been co-chair of the European Commission's FET Open program.

Dr. Ribas is a certified associate professor by AQU and has developed his teaching work at the University of Girona and the UPC. He began his professional career at Accenture where he became interested in AI and its application in healthcare. Dr Ribas also has extensive experience as an AI entrepreneur and consultant.

Dr. Ribas has focused on the study of Sepsis, inflammatory diseases, cardiovascular modeling and Cancer. He was awarded the prize for the best scientific poster at the international congress of the Society for Critical Care in 2012. He has a doctorate in Artificial Intelligence, a Master's in Mathematical Engineering, a Superior Telecommunications Engineer from the UPC and a Master's in Electrical Engineering from the KTH in Stockholm.



Verónica Faulkner

UX Designer & Researcher
User Experience Euroconsumers Group Service, OCU

Verónica Faulkner UX Designer and Researcher of OCU. Has been for more than 20 years involve on innovation processes and designing digital products and services for the third sector. For two consecutive years she has participated as UX Expert in the first social hackathon in Spain "HackforGood" being awarded in 2014 for the "Soup kitchens mapping needs" project. Always have at hearth the consumer experience and make sure that their journey is properly integrated in the products and services proposed.



Thimios Bothos

Senior Researcher
ICCS-NTUA

Efthimios Bothos holds a PhD in management information systems and is a senior researcher at the Institute of Communications and Computer Systems in Athens Greece, where he has managed research and innovation work in more than 15 collaborative R%D projects. His research interests focus on personalization and recommendation systems, information systems for sustainability and behavioural change support, data analytics and decision support systems.

Speakers

In order of appearance



Claudia D'Antonio

Project Manager
METEDA

Claudia D'Antonio, Project Manager at Meteda, Italy. Role: Management of foreign R&D projects and sale of devices in foreign market. Main duties: Technical and administrative reporting of European project, Demonstration and training to Italian and international users, elaborations of technical documentations and manuals, post and pre sale customer care.



Sander van Berlo

Director
ONMI

Sander van Berlo co-founded Onmi in 2015. He has been developing behaviour change tools and managing R&D projects ever since. With his background in industrial design, he focusses on improving user experience and interaction with Onmi's technology.



Philip Calder

Professor of Nutritional Immunology
University of Southampton

Philip Calder is an internationally recognized researcher on the metabolism and functionality of fatty acids, and on the influence of diet and nutrients on the immune and inflammatory responses. His research addresses both life course and translational considerations. He has received many awards and prizes for his work.

Professor Calder was previously President of the International Society for the Study of Fatty Acids and Lipids, Chair of the Scientific Committee of the European Society for Clinical Nutrition and Metabolism - ESPEN and President of the Nutrition Society. He is currently President of the Federation of European Nutrition Societies.

Professor Calder was previously Editor-in-Chief of the British Journal of Nutrition and is currently an Associate Editor of several journals. He has over 800 scientific publications and is recognized as a Highly Cited Researcher.

Speakers

In order of appearance



Mar Galofré

Researcher at the Digital Health Unit
Eurecat

Mar Galofré, Researcher in Digital Health Unit of Eurecat. MSc Degree in Computational Biomedical Engineering. She has been involved in several EU and private research projects regarding the analysis of omics data in a variety of diseases.



Milanne Galekop

PhD candidate
**Erasmus School of Health Policy
and Management**

Milanne Galekop is a PhD candidate at the Erasmus School of Health Policy & Management in Rotterdam at the Health Technology Assessment (HTA) department. She has a master degree in Health Economics. Her PhD focusses on the PREVENTOMICS project, by studying the costs, benefits and potential value of personalized nutrition.



Eduardo Troncoso & Marcos Tomas

R&D managers

Eduardo Troncoso and Marcos Tomás are in charge of the food R&D department at Grupo Carinsa, both have presented and defended different national and international projects, some of them are NUTRICAM (Development of ingredients of high nutritional value for shrimp feed) or AGABIOTICO (Research of agave fiber with probiotics for children).