#### SHORT-TERM SCIENTIFIC MISSIONS

**STSMs** are exchange visits between researchers involved in POSITIVe aimed at supporting scientists to visit an institution or laboratory in another partner country, strengthening the existing networks, fostering collaborations and promoting the development / learning of new techniques / methods, etc. STSMs are intended especially for young researchers.

**Application Information and Rules** are available from the Action website:

http://www6.inra.fr/cost-positive/Trainings-STSMs



**STSM Coordinator:** Dr. Aleksandra KONIĆ RISTIĆ, Centre of Research Excellence in Nutrition and Metabolism, Institute for Medical Research, University of Belgrade, Serbia e-mail: sandrakonic@gmail.com

## **THEMATIC TRAINING COURSES**

Multidisciplinary training courses in areas relevant to the primary objectives of POSITIVe. The courses will be directed, principally, to early stage researchers with the aims of: I) enhancing their knowledge on interindividual variation in response to the consumption of plant bioactives and factors involved and, II) developing their leadership skills for future European research. The training courses will be announced via the POSITIVe website and the e-newsletters.





# Contact us

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**COST** (European Cooperation in Science and Technology) is a pan-European intergovernmental framework. Its mission is to enable break-through scientific and technological developments leading to new concepts and products and thereby contribute to strengthening Europe's research and innovation capacities.



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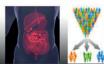
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FA 1403 - POSITIVe:
Interindividual variation in response to consumption of plant food bioactives and determinants

involved

2014-2018



COST is supported by the EU Framework Programme Horizon 2020

# **POSITIVe Main Objectives**

Build an open European scientific network to tackle the question of the interindividual variation in response to plant food bioactives consumption

# **Expected Impacts**

## Science

- 1. Strengthen and structure a large European community to ensure future innovative research on plant bioactives and cardiometabolic health.
- 2. Improve evaluation of the health benefits of plant food bioactives to humans taking into account different subgroups of responders.
- 3. Train Early Stage Researchers (ESRs) in the field and develop their capacity through exposure to multi-disciplinary and multisectorial questions.

## Industry

- 1. Provide scientific basis for future innovative spin-off projects.
- 2. Support development of **new functional/customized foods**.
- 3. Increase European Agro-food industry competitiveness.

## **Public Health**

- 1. Provide the scientific basis to **refine dietary recommendations** to optimize the health benefits of plant foods for all population subgroups.
- 2. Help public authorities to refine global nutritional strategies to improve lifelong health and well-being of humans.



POSITIVe members attending the Opening Meeting in Belgrade, March 2015

Working Group 1: Interindividual variation in bioavailability

#### **Main Tasks**

- bioavailability of plant food bioactives.
- 2. Improve methods and tools to asses individual's exposure to 2. Determine pertinent research priorities for Europe. plant food bioactives.

# **Expected outcomes**

- 1. Inventory of factors substantially affecting absorption and metabolism for each family of bioactives.
- 2. New paradigms and related methods to stratify individuals into defined "metabotypes".
- 3. List of candidate genes variants, gut microbiota species and activities associated with the identified metabotypes.
- 4. Consensus on the usefulness of new approaches (metabolomics) to assess individual's exposure.

Leader: Prof. Tom Van de WIELE, Univ. Ghent - Belgium Co-leader 1: Dr. Rikard LANDBERG, Univ. Agricultural Science -Sweden

Co-leader 2: Dr. Claudine MANACH, INRA - France

Working Group 2: Interindividual variation in the biological responsiveness regarding cardiometabolic endpoints

#### **Main Tasks**

- 1. Assess interindividual variation in selected clinical and molecular biomarkers of cardiometabolic risk in response to plant food bioactives consumption.
- 2. Determine factors of interindividual variation.

## **Expected outcomes**

- 1. Consensus on existing tools and methods and on emerging omics approaches to evaluate biological response to plant food bioactives.
- 2. Identification of factors beyond bioavailability (such as age, gender, physiological/health status) which affect biological
- 3. Pinpoint cellular pathways, candidate genes and their variants involved in interindividual variation.

Leader: Dr. Ana RODRIGUEZ-MATEOS, Univ. Düssseldorf -Germany

Co-leader 1: Dr. Eileen GIBNEY, UCD-Ireland Co-leader 2: Dr. Dragan MILENKOVIC, INRA - France **Working Group 3: From emerging science to applications** 

#### **Main Tasks**

- 1. Identify the main factors involved in human variations in 1. Integrate key findings from WG1 & 2 and identify those with greatest interest for translation into applications.



# **Expected outcomes**

- 1. New paradigms and related methods to stratify individuals according to their ability to respond to plant food bioactives intake.
- 2. Guidelines to consider inter-individual variation in future research.
- 3. Scientific basis for tailored dietary recommendations for stratified population subgroups.
- 4. Scientific basis for development of innovative and healthy foods targeted at large population subgroups.
- 5. Roadmap based on consensus for future innovative initiatives in Europe.

**Leader:** Dr. Baujke DE ROOS, Rowett Institute - United Kingdom Co-leader: Prof. Marina HEINONEN, Univ. Helsinki - Finland

## **Main Task**

Prepare a dissemination and communication plan targeting the different end-users.

Leader: Dr. Maria-Teresa GARCIA-CONESA, CEBAS-CSIC - Spain Co-leader: Iwona KIEDA, Institute of Animal Reproduction and Food Research - Poland