PIVOTAL ASSESSMENT OF THE EFFECTS OF BIOACTIVES ON HEALTH AND WELLBEING. FROM HUMAN GENOMA TO FOOD INDUSTRY.

The general objective of PATHWAY-27 addresses the exploitation of bioactive compounds as ingredients of foods that, within the common diet, could significantly benefit human health and wellbeing. PATHWAY-27 uses three model compounds (docosahexaenoic acid - DHA, beta-glucan - BG, and anthocyanins - AC) and three model food matrices (bakery, dairy and egg products) to derive conclusions that will be widely applicable.

The scientific objective of PATHWAY-27 is to better understand the potential benefits and mechanism of action of the selected bioactive compounds (DHA, BG and AC), considered as ingredients of the PATHWAY-27 bioactive-enriched foods (BEF), in the prevention of the Metabolic Syndrome (MS).

The technological objective objective of PATHWAY-27 is to develop improved food formulations leading to the production of BEF with a scientifically demonstrated impact on health.

PATHWAY-27 includes 25 partners broadly distributed in Europe: west to east, south to north Europe, including one Candidate Country (Turkey). The EU Consortium consists of different organisation types, namely: Universities, Research Institutes and SMEs.

EXPECTED RESULTS:
Increased knowledge on bioavailability, activity, synergism and mechanisms of action of bioactive compounds when administered as integral parts of foods, not as supplements. Guidelilines and best practice for undertaking intervention studies as well developing and validating innovative biomarkers that are relevant to humans. The possibility of improving the formulation of new BEF having a scientifically-validated positive effect on human health and wellbeing. Increase in the innovation potential and competitiveness of SMEs (small and medium-sized enterprises). Supporting the implementation of European legislation on health and nutrition claims.

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