Long-term effects of early nutrition on later health

From 2012-02-01 to 2017-10-31, closed project | EARLYNUTRITION Website

Project details

<table>
<thead>
<tr>
<th>Total cost:</th>
<th>Topic(s):</th>
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<tr>
<td>EUR 11 597 678,02</td>
<td>KBBE.2011.2.2-03 - Long-term influence of early nutrition on health</td>
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<th>EU contribution:</th>
<th>Call for proposal:</th>
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<tr>
<td>EUR 8 962 771</td>
<td>FP7-KBBE-2011-5</td>
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<th>Coordinated in:</th>
<th>Funding scheme:</th>
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<td>Germany</td>
<td>CP-IP - Large-scale integrating project</td>
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Objective

Nutrition during early development has an important impact on later health, particularly through greater obesity risk, as demonstrated by FP6 EARNEST. EarlyNutrition explores the current key hypotheses on likely causes and pathways to prevention of early life origins of obesity (specifically adiposity) and associated disorders. We bring extraordinary expertise and study populations of 470,000 individuals to investigate:

- The fuel mediated in utero hypothesis
- The accelerated postnatal weight gain hypothesis
- The mismatch hypothesis.

Scientific and technical expertise in placental biology, epigenetics and metabolomics will provide understanding at the cellular and molecular level, and refined strategies for intervention in pregnancy and early post natal life to prevent obesity. Using existing cohort studies, ongoing and novel intervention studies and a basic science programme, we will provide the scientific foundations for evidence based recommendations for optimal EarlyNutrition that incorporate long-term health outcomes, focusing on 4 Target Groups: women before pregnancy; pregnant women; infants (incl. breastfeeding); young children.

Evidence is produced from animal and placental studies (Theme 1; T1), prospective cohort studies (T2), and randomised controlled trials in pregnant women and infants (T3). T4 covers scientific strategic integration, recommendation development and dissemination, including systematic reviews and behaviour change approaches.

A strong multi-disciplinary team of international leaders in the field including collaborators from USA and Australia achieves balance and complementarity.

The project’s impact comprises definitive evidence on early nutrition effects on health, enhanced EU and global policies, major economic benefits through obesity prevention and value-added nutritional products, and practical recommendations on optimal nutrition in Target Groups. Wide dissemination will be achieved through active engagement with stakeholders.

Related information

Results Packs
FOOD 2030: Innovative EU research ensures food system is future-ready

Result In Brief
Early nutrition determines later health

Report Summaries
Final Report Summary - EARLYNUTRITION (Long-term effects of early nutrition on later health)
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Activity type: Higher or Secondary Education Establishments

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Activity type: Research Organisations

Activity type: Research Organisations

Activity type: Research Organisations

Activity type: Research Organisations
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**Subjects**

Medicine and Health

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