Long-term effects of early nutrition on later health

Fact Sheet

Project Information

EARLYNUTRITION
Grant agreement ID: 289346

Funded under
Specific Programme "Cooperation": Food, Agriculture and Biotechnology

Total cost
€ 11 597 678,02

EU contribution
€ 8 962 771,00

Coordinated by
LUDWIG-MAXIMILIANS-UNIVERSITAET MUNICHEN
Germany

Start date
1 February 2012
End date
31 October 2017

This project is featured in...

RESULTS PACK
1 June 2018

FOOD 2030: Innovative EU research ensures food system is future-ready
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 postnatal 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.

Fields of science

medical and health sciences > clinical medicine > obstetrics
engineering and technology > environmental engineering > energy and fuels
medical and health sciences > health sciences > nutrition > obesity
natural sciences > biological sciences > genetics > epigenetics

Programme(s)

FP7-KBBE - Specific Programme "Cooperation": Food, Agriculture and Biotechnology
Topic(s)

KBBE.2011.2.2-03 - Long-term influence of early nutrition on health

Call for proposal

FP7-KBBE-2011-5
See other projects for this call

Funding Scheme

CP-IP - Large-scale integrating project

Coordinator

LUDWIG-MAXIMILIANS-UNIVERSITAET MUENCHEN

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Bayern > Oberbayern > München, Kreisfreie Stadt

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EU contribution
No data

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Other funding

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FOLKEHELESEINSTITUTTET

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Norge > Oslo og Viken > Oslo

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VERENIGING VOOR CHRISTELIJK HOGER ONDERWIJS WETENSCHAPPELIJK ONDERZOEK EN PATIENTENZORG

Netherlands

EU contribution

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UNIVERSITAT ROVIRA I VIRGILI

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Este > Cataluña > Tarragona

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ACADEMISCH ZIEKENHUIS LEIDEN

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Activity type
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Other funding
No data

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UNIVERSIDAD DE GRANADA

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€ 262 140,00

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Other funding:
No data
THE CHANCELLOR MASTERS AND SCHOLARS OF THE UNIVERSITY OF CAMBRIDGE

United Kingdom

EU contribution
€ 284 100,00

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East of England > East Anglia > Cambridgeshire CC

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UNIVERSITY COLLEGE CORK - NATIONAL UNIVERSITY OF IRELAND, CORK

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Ireland > Southern > South-East

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Higher or Secondary Education Establishments
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Nord-Ovest > Lombardia > Milano

Activity type
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INSTYTUT POMNIK CENTRUM ZDROWIA DZIECKA

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€ 118 380,00

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**Other funding**
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**ETHNIKO KAI KAPODISTRIAKO PANEPISTIMIO ATHINON**

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**EU contribution**
€ 25 680,00

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Αττική > Αττική > Κεντρικός Τομέας Αθηνών

**Activity type**
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**Other funding**
No data

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**UNIVERSITE LIBRE DE BRUXELLES**

**Belgium**

**EU contribution**
€ 2 724,22

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Avenue Franklin Roosevelt 50
1050 Bruxelles / brussel

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Région de Bruxelles-Capitale/Brussels Hoofdstedelijk Gewest > Région de Bruxelles-Capitale/ Brussels Hoofdstedelijk Gewest > Arr. de Bruxelles-Capitale/Arr. Brussel-Hoofdstad

Activity type
Higher or Secondary Education Establishments

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Other funding
No data

MEDSCINET UK LTD
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Private for-profit entities (excluding Higher or Secondary Education Establishments)

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GENOMIC INVESTMENTS BV
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€ 0,00

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West-Nederland > Zuid-Holland > Agglomeratie Leiden en Bollenstreek

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BIOLUTION GMBH

Austria

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€ 96 561,82

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Ostösterreich > Wien > Wien

Activity type
Private for-profit entities (excluding Higher or Secondary Education Establishments)

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NIZO FOOD RESEARCH BV

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€ 63 806,25

Region
Oost-Nederland > Gelderland > Veluwe

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