DYNAHEALTH

Project ID: 633595
Funded under: H2020-EU.3.1.1. - Understanding health, wellbeing and disease

Understanding the dynamic determinants of glucose homeostasis and social capability to promote Healthy and active aging

From 2015-04-01 to 2019-03-31, closed project | DYNAHEALTH Website

Project details

<table>
<thead>
<tr>
<th>Total cost:</th>
<th>Topic(s):</th>
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<tbody>
<tr>
<td>EUR 5 918 766,27</td>
<td>PHC-01-2014 - Understanding health, ageing and disease: determinants, risk factors and pathways</td>
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<table>
<thead>
<tr>
<th>EU contribution:</th>
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<tr>
<td>EUR 5 917 265,50</td>
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<th>Coordinated in:</th>
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<tbody>
<tr>
<td>Finland</td>
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<tr>
<th>Call for proposal:</th>
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<tr>
<td>H2020-PHC-2014-two-stage</td>
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<th>Funding scheme:</th>
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<td>RIA - Research and Innovation action</td>
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Objective

The Gluco-Psychosocial Axis (GPA) concerns the interplay of factors determining glucose metabolism and insulin sensitivity and the neuroendocrine response resulting from exposure to psychosocial stress. A sub-optimal GPA influences the development of type 2 diabetes and related impairments with varying degrees of interplay between genetics and early growth (particularly adiposity and cognitive function), and social, occupational, and other modifiable lifestyle factors. Many exposures apply from throughout life, and potential exposure to a sub-optimal GPA lead to a cumulative risk of ill health and decreased economic prospects for the ageing. Understanding these factors, interactions and extent they contribute to the preservation of glucose homeostasis and psychosocial functioning is important for the development of preventive and therapeutic measures promoting healthy and active ageing. DynaHEALTH will contribute to implementing a dynamic model for early GPA risk identification and validation, allowing development of risk-based prevention tools and policies that will help to inform policy makers on the best periods to invest in cost-effective and sustainable healthcare strategies. DynaHEALTH comprises 13 partners from academic/private sectors and will leverage data from 21 birth cohorts and intervention studies, involving 1.5 million Europeans. By identifying biological and psychosocial determinants of the GPA and characterising metabolic and epigenetic factors, whilst quantifying the impact of exposure to an optimal lifelong GPA, DynaHEALTH will influence weight gain, glucose homeostasis, employability, health deterioration and disease accumulation as individuals age. DynaHEALTH includes the potential to exploit the results for new technologies and strategies, adding to our understanding of pathways related to healthy and active ageing, underpinning options for targeted, personalised healthcare and mitigating the effects of sub-optimal GPA on ageing.

Related information

<table>
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<tr>
<th>Report Summaries</th>
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<tr>
<td>Periodic Reporting for period 1 - DYNAHEALTH (Understanding the dynamic determinants of glucose homeostasis and social capability to promote Healthy and active aging)</td>
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<table>
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<tr>
<th>News</th>
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<td>New study suggests earlier interventions are needed to prevent inactivity in children</td>
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</table>
### Events

**10th World Congress Developmental Origins of Health and Disease**

### Coordinator

**OULUN YLIOPISTO**  
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90014 OULU  
Finland  
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**Activity type:** Higher or Secondary Education Establishments  
Contact the organisation

### Participants

**BETA TECHNOLOGY LTD**  
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United Kingdom  
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**Activity type:** Private for-profit entities (excluding Higher or Secondary Education Establishments)  
Contact the organisation

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Finland  
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**Activity type:** Research Organisations  
Contact the organisation

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**EU contribution:** EUR 877,663,14  
**EU contribution:** EUR 250,336  
**EU contribution:** EUR 495,366,25  

- Science meets policy to discuss healthy ageing
- Weight Loss before Puberty Minimises Increased Risk of Developing Type 2 Diabetes as Adults in Boys who were Overweight
- New evidence to support the importance of psychosocial factors in determining type 2 diabetes risk
- Finnish study reveals link between unemployment and diabetes
- New study shows an epigenetic link between prenatal exposure to maternal smoking and offspring’s cardio-metabolic health
KONGENS VAENGE 2
3400 HILLEROD
Denmark
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Activity type: Public bodies (excluding Research Organisations and Secondary or Higher Education Establishments)
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Activity type: Higher or Secondary Education Establishments
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**Activity type:** Higher or Secondary Education Establishments

Contact the organisation

EU contribution: EUR 555 990

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

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EU contribution: EUR 15 660

ABBOTT LABORATORIES SA
AVENIDA DE BURGOS 91
28050 MADRIDE
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**Activity type:** Private for-profit entities (excluding Higher or Secondary Education Establishments)

Contact the organisation

EU contribution: EUR 78 160

ERASMUS UNIVERSITAIR MEDISCH CENTRUM ROTTERDAM
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3015 GD ROTTERDAM
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**Activity type:** Higher or Secondary Education Establishments

Contact the organisation

EU contribution: EUR 720 160

Academisch Medisch Centrum bij de Universiteit van Amsterdam
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**Activity type:** Higher or Secondary Education Establishments

Contact the organisation

EU contribution: EUR 625 000
Activity type: Higher or Secondary Education Establishments

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