



Early-life stressors and LifeCycle health

Results

Project Information

LIFECYCLE

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[Project website](#)

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Project closed

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€ 9 957 602,09

Coordinated by

ERASMUS UNIVERSITAIR
MEDISCH CENTRUM
ROTTERDAM



Netherlands

CORDIS provides links to public deliverables and publications of HORIZON projects.

Links to deliverables and publications from FP7 projects, as well as links to some specific result types such as dataset and software, are dynamically retrieved from [OpenAIRE](#) .

Deliverables

[Documents, reports \(30\)](#)



[Report on the relationships of early-life exposures with trajectories of cardiovascular and metabolic risk factors from birth to adulthood](#)

We will study the associations of individual earlylife stressors and the integrated earlylife exposome with cardiometabolic phenotypes at various ages across the life course and with trajectories of those phenotypes

[Report on differences in DNA methylation loci that mediate the associations of early-life exposures with mental health and psychopathology life course trajectories](#)

We will identify DNA methylation loci that mediate the relationships of earlylife stressors and the integrated earlylife exposome with mental health and disease trajectories

[Report on the associations of DNA methylation loci related to early-life stressors with functional outcomes, including RNA expression](#)

We will explore associations of differences in DNA methylation at specific CpG sites discovered in EWAS with RNA expression levels methylationtranscription analyses using RNA expression data measured in some of the participating cohorts at various ages in childhood

[Report on impact of early-life policies and interventions based on dynamic microsimulation models](#)

Dynamic microsimulation modelling involves the generation of simulated data on individual units and is particularly suited for policy evaluations and scenario analyses It is a multiprocess simulation model in which each process is estimated at an individual level and feeds back into the other processes In LIFECYCLE the analytical framework and the specific models will be informed with populationspecific exposure prevalences and effect estimates of distal earlylife stressors and intermediates obtained from the EU Child Cohort Network and external data

[Report on the associations of early-life stressors during preconception, pregnancy, infancy and early childhood with lung function developmental trajectories and the risk of asthma from childhood until young adulthood](#)

We will use individual participant data from the EU Child Cohort Network to identify earlylife stressors individually and integrated in the earlylife exposome with lung function trajectories and symptoms diagnosis and medication related to asthma Main outcomes include lung function FEV1 FEV1FVC FEF2575 FEF75 bronchial hyperresponsiveness and symptoms and diseases respiratory infections wheezing asthma

[Report on internalizing and externalizing behavior and other mental health trajectories from birth to childhood, and their associations with psychopathology outcomes](#)

We will model longitudinal life course trajectories of mental function from early life to adulthood using data from the EU Child Cohort Network These trajectories will

include both tracking and stability of internalizing and externalizing behavioural indicators measured with the Child Behaviour Check List CBCL throughout childhood and the relationships of these behavioural indicators with psychopathology indicators in adolescence and adulthood

[Report on associations of early-life stressors with DNA methylation at birth](#)

We will use an EWAS approach to study the associations of the main indicators of early-life stressors and the integrated early-life exposome, before and during pregnancy on DNA methylation at birth measured in cord blood. We will also explore the associations of the overall early-life exposome, developed in WP3, during pregnancy, on cord blood methylation at birth.

[Report on review of interventions focused on lifestyle stressors, to improve life course health trajectories](#)

We will perform literature searches and reviews based on the developed strategies from deliverable 9.1. We will review evidence focused on interventions on lifestyle stressors of parents and young children. In line with WP3, these stressors will include parental smoking, alcohol consumption, illicit drug use, sleep, physical activity and parent and childhood nutritional intake and status.

[Report on exposome models based on proof-of-principle studies](#)

We will develop protocols for analysis of associations of a fully integrated earlylife stressor model the earlylife exposome with lifecycle health outcomes and test these in proofofprinciple studies As input we will use the main earlylife stressors WP1 WP3 Deliverable 31 34 Proofofprinciple datasets will be those of the EUFP7 funded HELIX project [wwwprojecthelix.eu](http://www.projecthelix.eu) including six cohorts across Europe n1200 plus the Generation R Study n7000 and DNBC n70000

[Report on review of interventions focused on migration stressors, to improve life course health trajectories](#)

We will perform literature searches and reviews based on the developed strategies from deliverable 9.1. We will review evidence on interventions on stressors related to migration. In line with WP3, the stressors will include indicators at individual, neighbourhood and macro-levels such as country of origin of the individual, its parents, or grandparents, generation after migration, measurements of integration.

[Report on approaches to analyse multiple stressor data in the context of longitudinal modelling](#)

In WP3 we will develop models to analyse associations of multiple stressors many of which are multidimensional with health outcomes This task will further develop these methods by assessing approaches to analyse multiple correlated stressor data in the context of longitudinal modelling

[Report on the persistence of DNA methylation differences related to early-life stressors](#)

To establish the role of DNA methylation differences on later life health outcomes in more detail and to better understand how these differences may exert effects, we will examine DNA methylation differences from birth to early adulthood in relation to early-life stressors.

[Report on review of interventions focused on urban environment stressors, to improve life course health trajectories](#) 

We will perform literature searches and reviews based on the developed strategies from deliverable 9.1. We will review evidence focused on interventions on urban environment stressors. In line with WP3, these stressors will include measurements of air pollution, noise, green space, connectivity and walkability.

[Report on the effects of early-life stressors on mental health and psychopathology life course trajectories](#) 

We will use data from the EU Child Cohort Network to study the associations of earlylife stressors including socioeconomic migrant urban environment and lifestyle related indicators and the integrated earlylife exposome with mental development mental health and risk factors for psychiatric diseases at various ages across the life course

[Recommendations for public health strategies focused on future parents and young children to improve life course health trajectories from early life onwards](#) 

We will develop recommendations for public health strategies based on findings from LIFECYCLE and systematic reviews of literature on interventions about modifications of earlylife stressors WP9

[Report on early-life stressors that are related to both asthma throughout childhood and lung function and COPD in adulthood](#) 

We will explore whether individual earlylife stressors and the integrated earlylife exposome related to impaired respiratory health at younger age also affect lung function and risk of COPD in adulthood

[Report on review of interventions focused on socio-economic stressors, to improve life course health trajectories](#) 

We will perform literature searches and reviews based on the developed strategies from deliverable 9.1. We will review evidence focused on interventions on socio-economic inequalities In line with WP3, socio-economic related stressors will include parental education, occupation, type of employment contract, family income, family size, child care and house property and size.

[Report on cardiovascular developmental trajectories during fetal life, infancy and early childhood, and the relationship with early-life exposures and cardiovascular risk factors in childhood](#) 

We will use data from the EU Child Cohort Network partners that collected data before or during pregnancy and have detailed fetal and infant growth and

cardiovascular development data. We will study associations of early-life stressors and the early-life exposome with adiposity and cardio-metabolic developmental trajectories in fetal life, infancy and early childhood (fetal and placental blood flow, cardiac and vascular dimensions, adiposity), and subsequently associations of these trajectories with risk factors for childhood for cardio-metabolic disease.

[Report on the relationship of early-life exposures with differences in metabolic profiles and the extent to which these mediate associations of early-life exposures with cardio-metabolic risk factors and disease](#) 

We will explore the associations of individual earlylife stressors and the integrated earlylife exposome with a wide range of metabolites reflecting systemic metabolism that might mediate associations of earlylife exposures with subsequent cardiometabolic disease

[Report on various life course models for the effects of early-life exposures on later cardio-metabolic risk factors and disease](#) 

In line with deliverable 41 and WP7 we will compare various potential life course models to best explain the relationships of earlylife stressors and potential mediators with trajectories of cardiometabolic risk factors and disease All EU Child Cohort Network cohorts will contribute to one or more of these trajectories

[Report on DNA methylation changes as measures of early-life exposures](#) 

We will explore if DNA methylation patterns can be used as markers for earlylife stressors Building on deliverables 8184 we will assess if DNA methylation sites or patterns that are related to earlylife stressors are able to accurately identify those exposed ie specific enough to the exposure in question

[Report on to what extent differences in DNA methylation mediate the associations between early-life stressors and subsequent life course chronic obstructive respiratory health and disease trajectories](#) 

We will identify DNA methylation loci that mediate the relationships of earlylife stressors with chronic obstructive respiratory health and disease throughout the life course We will use data from studies that have epigenomewide data on DNA methylation which can be used for epigenomewide association studies EWAS metaanalyses to identify epigenetic markers associated with respiratory outcomes

[Integrated summary report on recommendations on potential interventions focused on modification of early-life stressors](#) 

We will integrate results from the reviews from deliverables 92 95 for recommendations for feasible effective and efficient interventions before or during pregnancy in infancy or in early childhood Specific subgroups of interest include socioeconomic and ethnic groups or subgroups identified at increased risk based on other parental or infant characteristics

[Report on the relationships of early-life stressors with transient and persistent common allergies, and the extent to which these mediate associations of early-life stressors with life course chronic obstructive respiratory health and disease trajectories](#) 

We will relate individual earlylife stressors and the integrated earlylife exposome with common allergies from birth to young adulthood We will also examine if we can identify subgroups based on allergic and nonallergic pathways

[Report on differences in DNA methylation loci that mediate the associations of early-life exposures with cardio-metabolic risk factors and disease](#) 

We will identify DNA methylation loci that mediate the associations of individual earlylife stressors and the integrated earlylife exposome with cardiometabolic risk factor trajectories and disease We will use data from studies that have epigenomewide data on DNA methylation which can be used for epigenomewide association studies EWAS metaanalyses to identify epigenetic markers associated with cardiometabolic outcomes

[Report on approaches for longitudinal data/health trajectories in the context of life course analyses](#) 

We will provide a detailed description of analytical options to analyse repeated measurements data. We will cover theoretical biostatistical aspects, the link between statistical modelling and the underlying biological frameworks and more practical applications dealing with issues of implementation and interpretation.

[Report on patterns of core and integrated socio-economic, migration, urban environment and lifestyle related stressors across Europe](#) 

We will use all core and integrated data from WP3 deliverables 3.1 - 3.4 and apply factor analysis and model-based latent class analysis to uncover the nature of the underlying dependencies between stressors and to define stressor patterns. Participating partner cohorts are those that have collected key variables in each of the areas. Particular attention will be paid to comparing of stressor patterns between regions

[Report on approaches for causal inference in the context of life course trajectory analyses](#) 

We will develop an analysis plan providing a detailed description of options in study design and statistical analyses to apply causal inference methods to life course research. This will integrate theoretical and applied aspects, focusing on implementation and interpretation.

[Report on the impact of early-life stressors on population and individual economic outcomes](#) 

We will identify links between earlylife stressors and economically related later life outcomes and elucidate mechanisms underlying these links We will use longitudinal data from the EU Child Cohort Network by linking earlylife stressors to economicallyrelated outcomes in childhood adolescence and adulthood Next we will use registrybased data from Statistics Netherlands CBS and Statistics

Finland to relate earlylife stressors such as recessions to economically related outcomes later in life

[Report on the relationship of early-life stressors with fetal and childhood brain developmental outcomes and the extent to which these mediate associations of early-life exposures with mental health and psychopathology life course trajectories](#) 

We will study brain development from the fetal period and childhood onwards by means of advanced imaging studies including repeated fetal ultrasound and childhood MRI brain studies We will first study the role of brain developmental adaptations in fetal life or childhood Generation R Generation R Next INMA ALSPAC BIB NFBC1986 RAINE and subsequently try to replicate the findings in adults NFBC1966 This deliverable will provide insights to the role of developmental structural and functional brain developmental adaptations in the relationships between earlylife stressors and mental health trajectories

Other (4)

[Personalized prediction models based on early-life stressors to predict development of cardio-metabolic, respiratory and psychiatric disease](#) 

We will use data from the EU Child Cohort Network to develop models (1) to predict from pregnancy and early childhood stressor data the onset of risk factors for cardio-metabolic, respiratory and mental outcomes throughout the life course (infant prediction models) and (2) to predict persistence of childhood cardio-metabolic, respiratory and mental outcomes (childhood prediction models).

[Training course on causal inference methods and longitudinal modeling in the context of life course trajectory analyses](#) 

The courses will be developed to answer the main demands for theoretical and applied knowledge emerging from the interaction with WP4, WP5 and WP6.

[E-learning module available online](#) 

We will develop an e-learning module, consolidating the scientific evidence base and status of recommendations of LIFECYCLE topics and outcomes. This e-learning module will be targeted to international AHPs and researchers working in the field and will be implemented and made publically available on the ENeA platform without access restriction (www.enea.moodle.elearning.lmu.de).

[Tutorials on the implementation of causal inference methods and longitudinal modelling in the context of life course trajectory analyses](#) 

We will develop, in collaboration with WP4, WP5 and WP6, tutorials on selected outcomes to demonstrate the implementation of the analysis strategy in specific

contexts. The main focus of the tutorials will be on the comparison of approaches and the interpretation of the resulting estimates.

Websites, patent filings, videos etc. (2)

[eHealth applications for personalized prevention strategies](#) 

We will maximize the impact of the main results for individuals by developing a website and mobile applications for individually customized advice to women and men before pregnancy and for pregnant women and young children

[External project website launched](#) 

Project website accessible for general public and specific public. The website will be multi-layered. The homepage will be accessible to everyone; it will be based mainly on visual communication (videoclips, data visualisations, etc.); and it will link to specific pages for various stakeholder or target groups, including researchers, health care providers, patient organizations, patients and policymakers.

Publications

Peer reviewed articles (276)

[Longitudinal associations of DNA methylation and sleep in children: a meta-analysis](#) 

Author(s): S. Sammallahiti, M. E. Koopman-Verhoeff, A. C. Binter, R. H. Mulder, A. Cabre-Riera, T. Kvist, et al.

Published in: Clin Epigenetics, Issue 18687075, 2022, ISSN 1868-7075

Publisher: Springer Verlag

DOI: 10.1186/s13148-022-01298-4

[Prenatal maternal and cord blood vitamin D concentrations and negative affectivity in infancy](#) 

Author(s): S. Sammallahiti, E. Holmlund-Suila, R. Zou, S. Valkama, J. Rosendahl, M. Enlund-Cerullo, et al.

Published in: Eur Child Adolesc Psychiatry, Issue 10188827, 2021, ISSN 1018-8827

Publisher: Dr. Dietrich Steinkopff Verlag

DOI: 10.1007/s00787-021-01894-4

[Associations of physical condition with lung function and asthma in adolescents from the general population](#) 

Author(s): S. M. Mensink-Bout, M. R. Jahangir, J. C. de Jongste, H. Raat, V. W. V. Jaddoe and L. Duijts

Published in: Pediatr Allergy Immunol, Issue 09056157, 2022, ISSN 0905-6157

Publisher: Blackwell Publishing Inc.

DOI: 10.1111/pai.13811

[Associations of Hair Cortisol Concentrations With Cardiometabolic Risk Factors in Childhood](#) 

Author(s): Florianne O L Vehmeijer, Susana Santos, Yolanda B de Rijke, Erica L T van den Akker, Janine F Felix, Elisabeth F C van Rossum, Vincent W V Jaddoe

Published in: The Journal of Clinical Endocrinology & Metabolism, Issue 106/9, 2021, Page(s) e3400-e3413, ISSN 0021-972X

Publisher: The Endocrine Society

DOI: 10.1210/clinem/dgab379

[Systematic evaluation of the association between hemoglobin levels and metabolic profile implicates beneficial effects of hypoxia](#) 

Author(s): J. Auvinen, J. Tapio, V. Karhunen, J. Kettunen, R. Serpi, E. Y. Dimova, et al.

Published in: Sci Adv, Issue 23752548, 2021, ISSN 2375-2548

Publisher: American Association for the Advancement of Science

DOI: 10.1126/sciadv.abi4822

[Influence of maternal vomiting during early pregnancy on school-age respiratory health](#) 

Author(s): S. D. Poeran-Bahadoer, E. R. van Meel, R. Gaillard, V. W. V. Jaddoe and L. Duijts

Published in: Pediatr Pulmonol, Issue 10990496, 2022, ISSN 1099-0496

Publisher: Wiley-Liss Inc.

DOI: 10.1002/ppul.25747

[Genetics of early-life head circumference and genetic correlations with neurological, psychiatric and cognitive outcomes](#) 

Author(s): S. Vogelezang, J. P. Bradfield, C. Early Growth Genetics, S. F. A. Grant, J. F. Felix and V. W. V. Jaddoe

Published in: BMC Med Genomics, Issue 17558794, 2022, ISSN 1755-8794

Publisher: BioMed Central

DOI: 10.1186/s12920-022-01281-1

[The link between attention deficit hyperactivity disorder \(ADHD\) symptoms and obesity-related traits: genetic and prenatal explanations](#) 

Author(s): V. Karhunen, T. A. Bond, V. Zuber, T. Hurtig, I. Moilanen, M. R. Jarvelin, et al.

Published in: Transl Psychiatry, Issue 21583188, 2021, ISSN 2158-3188

Publisher: Nature Publishing Group

DOI: 10.1038/s41398-021-01584-4

[Genome-wide DNA methylation patterns associated with sleep and mental health in children: a population-based study](#)

Author(s): Maria Elisabeth Koopman-Verhoeff, Rosa H. Mulder, Jared M. Saletin, Irwin Reiss, Gijsbertus T.J. Horst, Janine F. Felix, Mary A. Carskadon, Henning Tiemeier, Charlotte A.M. Cecil

Published in: Journal of Child Psychology and Psychiatry, Issue 61/10, 2020, Page(s) 1061-1069, ISSN 0021-9630

Publisher: Blackwell Publishing Inc.

DOI: 10.1111/jcpp.13252

[Early-life famine exposure, hunger recall, and later-life health](#)

Author(s): Z. Deng, M. Lindeboom

Published in: Journal of Applied Econometrics, Issue 08837252, 2022, ISSN 0883-7252

Publisher: John Wiley & Sons Inc.

DOI: 10.1002/jae.2897

[Cord blood DNA methylation reflects cord blood C-reactive protein levels but not maternal levels: a longitudinal study and meta-analysis](#)

Author(s): Edwina H. Yeung, Weihua Guan, Xuehuo Zeng, Lucas A. Salas, Sunni L. Mumford, Paula de Prado Bert, Evelien R. van Meel, Anni Malmberg, Jordi Sunyer, Liesbeth Duijts, Janine F. Felix, Darina Czamara, Esa Hämäläinen, Elisabeth B. Binder, Katri Räikkönen, Jari Lahti, Stephanie J. London, Robert M. Silver, Enrique F. Schisterman

Published in: Clinical Epigenetics, Issue 12/1, 2020, ISSN 1868-7075

Publisher: Springer Verlag

DOI: 10.1186/s13148-020-00852-2

[Prevention of noncommunicable diseases by interventions in the preconception period: A FIGO position paper for action by healthcare practitioners](#)

Author(s): Chandni Maria Jacob, Sarah Louise Killeen, Fionnuala M. McAuliffe, Judith Stephenson, Moshe Hod, Ivonne Diaz Yamal, Jaideep Malhotra, Edgar Mocanu, H. David McIntyre, Anne B. Kihara, Ronald C. Ma, Hema Divakar, Anil Kapur, Rui Ferriani, Ernest Ng, Laurie Henry, Zephne Van Der Spuy, Zev Rosenwaks, Mark A. Hanson

Published in: International Journal of Gynecology & Obstetrics, Issue 151/S1, 2020, Page(s) 6-15, ISSN 0020-7292

Publisher: Elsevier BV

DOI: 10.1002/ijgo.13331

[Associations of circulating folate, vitamin B12 and homocysteine concentrations in early pregnancy and cord blood with epigenetic gestational age: the Generation R Study](#) 

Author(s): Giulietta S. Monasso, Leanne K. Küpers, Vincent W. V. Jaddoe, Sandra G. Heil, Janine F. Felix

Published in: Clinical Epigenetics, Issue 13/1, 2021, ISSN 1868-7075

Publisher: Springer Verlag

DOI: 10.1186/s13148-021-01065-x

[The relationship of life-course patterns of adiposity with type 2 diabetes, depression, and their comorbidity in the Northern Finland Birth Cohort 1966](#) 

Author(s): P. Choudhary, J. Ronkainen, R. Nedelec, M. Tolvanen, E. Lowry, J. Miettunen, et al.

Published in: Int J Obes (Lond), Issue 03070565, 2022, ISSN 0307-0565

Publisher: Nature Publishing Group

DOI: 10.1038/s41366-022-01134-y

[Associations of maternal and infant metabolite profiles with foetal growth and the odds of adverse birth outcomes](#) 

Author(s): E. Voerman, V. W. V. Jaddoe, E. Shokry, G. J. G. Ruijter, J. F. Felix, B. Koletzko, et al.

Published in: Pediatr Obes, Issue 20476310, 2022, ISSN 2047-6310

Publisher: Wiley-Blackwell for the International Association for the Study of Obesity

DOI: 10.1111/ijpo.12844

[Large-scale association analyses identify host factors influencing human gut microbiome composition](#) 

Author(s): Alexander Kurilshikov, Carolina Medina-Gomez, Rodrigo Bacigalupe, Djawad Radjabzadeh, Jun Wang, Ayse Demirkan, Caroline I. Le Roy, Juan Antonio Raygoza Garay, Casey T. Finnicum, Xingrong Liu, Daria V. Zhernakova, Marc Jan Bonder, Tue H. Hansen, Fabian Frost, Malte C. Rühlemann, Williams Turpin, Jee-Young Moon, Han-Na Kim, Kreete Lüll, Elad Barkan, Shiraz A. Shah, Myriam Fornage, Joanna Szopinska

Published in: Nature Genetics, Issue 53/2, 2021, Page(s) 156-165, ISSN 1061-4036

Publisher: Nature Publishing Group

DOI: 10.1038/s41588-020-00763-1

[Maternal haemoglobin levels in pregnancy and child DNA methylation: a study in the pregnancy and childhood epigenetics consortium](#) 

Author(s): Justiina Ronkainen, Anni Heiskala, Florianne O.L. Vehmeijer, Estelle Lowry, Doretta Caramaschi, Guadalupe Estrada Gutierrez, Jonathan A. Heiss, Nadine Hummel, Elina Keikkala, Tuomas Kvist, Allison Kupsco, Phillip E. Melton, Giancarlo Pesce, Munawar H. Soomro, Marta Vives-Usano, Nour Baiz, Elisabeth

Binder, Darina Czamara, Mònica Guxens, Sanna Mustaniemi, Stephanie J. London, Sebastian Rauschert,
Published in: Epigenetics, 2021, Page(s) 1-13, ISSN 1559-2294
Publisher: Landes Bioscience
DOI: 10.1080/15592294.2020.1864171

[Maternal iron status in early pregnancy and DNA methylation in offspring: an epigenome-wide meta-analysis](#) 

Author(s): M. J. Taeubert, P. de Prado-Bert, M. L. Geurtsen, G. Mancano, M. J. Vermeulen, I. K. M. Reiss, et al.
Published in: Clin Epigenetics, Issue 18687075, 2022, ISSN 1868-7075
Publisher: Springer Verlag
DOI: 10.1186/s13148-022-01276-w

[Association between DNA methylation and ADHD symptoms from birth to school age: a prospective meta-analysis](#) 

Author(s): Alexander Neumann, Esther Walton, Silvia Alemany, Charlotte Cecil, Juan Ramon González, Dereje D. Jima, Jari Lahti, Samuli T. Tuominen, Edward D. Barker, Elisabeth Binder, Doretta Caramaschi, Ángel Carracedo, Darina Czamara, Jorunn Evandt, Janine F. Felix, Bernard F. Fuemmeler, Kristine B. Gutzkow, Cathrine Hoyo, Jordi Julvez, Eero Kajantie, Hannele Laivuori, Rachel Maguire, Léa Maitre, Susan K
Published in: Translational Psychiatry, Issue 10/1, 2020, ISSN 2158-3188
Publisher: Nature Publishing Group
DOI: 10.1038/s41398-020-01058-z

[Urban environment and health behaviours in children from six European countries](#) 

Author(s): S. Fernandez-Barres, O. Robinson, S. Fossati, S. Marquez, X. Basagana, J. de Bont, et al.
Published in: Environ Int, Issue 01604120, 2022, ISSN 0160-4120
Publisher: Pergamon Press Ltd.
DOI: 10.1016/j.envint.2022.107319

[Fibre Intake Is Associated with Cardiovascular Health in European Children](#) 

Author(s): Susana Larrosa, Veronica Luque, Veit Grote, Ricardo Closa-Monasterolo, Natalia Ferré, Berthold Koletzko, Elvira Verduci, Dariusz Gruszczyński, Annick Xhonneux, Joaquin Escribano
Published in: Nutrients, Issue 13/1, 2021, Page(s) 12, ISSN 2072-6643
Publisher: Multidisciplinary Digital Publishing Institute (MDPI)
DOI: 10.3390/nu13010012

[Adiposity associated DNA methylation signatures in adolescents are related to leptin and perinatal factors](#) 

Author(s): R.C. Huang, P.E. Melton, M.A. Burton, L.J. Beilin, R Clarke-Harris, E Cook, K.M. Godfrey, G.C. Burdge, T.A. Mori, D Anderson, S. Rauschert, J. M. Craig, M.S. Kobor, J.L. MacIsaac, A.M. Morin, W.H. Oddy, C.E. Pennell, J.D. Holbrook, K.A. Lillycrop

Published in: Epigenetics, 2021, Page(s) 1-18, ISSN 1559-2294

Publisher: Landes Bioscience

DOI: 10.1080/15592294.2021.1876297

[Meta-analysis of epigenome-wide associations between DNA methylation at birth and childhood cognitive skills](#) 

Author(s): D. Caramaschi, A. Neumann, A. Cardenas, G. Tindula, S. Alemany, L. Zillich, et al.

Published in: Mol Psychiatry, Issue 13594184, 2022, ISSN 1359-4184

Publisher: Nature Publishing Group

DOI: 10.1038/s41380-022-01441-w

[Applying the exposome concept in birth cohort research: a review of statistical approaches](#) 

Author(s): Susana Santos, Léa Maitre, Charline Warembourg, Lydiane Agier, Lorenzo Richiardi, Xavier Basagaña, Martine Vrijheid

Published in: European Journal of Epidemiology, Issue 35/3, 2020, Page(s) 193-204, ISSN 0393-2990

Publisher: Kluwer Academic Publishers

DOI: 10.1007/s10654-020-00625-4

[Acceptability of the FIGO Nutrition Checklist in Preconception and Early Pregnancy to Assess Nutritional Status and Prevent Excess Gestational Weight Gain: A Study of Women and Healthcare Practitioners in the UK](#) 

Author(s): C. M. Jacob, H. M. Inskip, W. Lawrence, C. McGrath, F. M. McAuliffe, S. L. Killeen, et al.

Published in: Nutrients, Issue 20726643, 2022, ISSN 2072-6643

Publisher: Multidisciplinary Digital Publishing Institute (MDPI)

DOI: 10.3390/nu14173623

[Associations of Plasma Fatty Acid Patterns during Pregnancy with Respiratory and Allergy Outcomes at School Age](#) 

Author(s): Sara M. Mensink-Bout, Trudy Voortman, Marsela Dervishaj, Irwin K. M. Reiss, Johan C. De Jongste, Vincent W. V. Jaddoe, Liesbeth Duijts

Published in: Nutrients, Issue 12/10, 2020, Page(s) 3057, ISSN 2072-6643

Publisher: Multidisciplinary Digital Publishing Institute (MDPI)

DOI: 10.3390/nu12103057

[Measuring Child Socio-Economic Position in Birth Cohort Research: The Development of a Novel Standardized Household Income Indicator](#) 

Author(s): Costanza Pizzi, Matteo Richiardi, Marie-Aline Charles, Barbara Heude, Jean-Louis Lanoe, Sandrine Lioret, Sonia Brescianini, Virgilia Toccaceli, Martine Vrijheid, Franco Merletti, Daniela Zugna, Lorenzo Richiardi
Published in: International Journal of Environmental Research and Public Health, Issue 17/5, 2020, Page(s) 1700, ISSN 1660-4601
Publisher: MDPI
DOI: 10.3390/ijerph17051700

[Global e-Learning in Early Nutrition and Lifestyle for International Healthcare Professionals: Design and Evaluation of the Early Nutrition Specialist Programme \(ENS\)](#) 

Author(s): Brigitte Brands, Ngoc Nhan Tran, Erin Baudendistel-Happ, Marina Sanchez-Garcia, Martin R. Fischer, Berthold Koletzko
Published in: Nutrients, Issue 13/3, 2021, Page(s) 775, ISSN 2072-6643
Publisher: Multidisciplinary Digital Publishing Institute (MDPI)
DOI: 10.3390/nu13030775

[Maternal dietary quality, inflammatory potential and childhood adiposity: an individual participant data pooled analysis of seven European cohorts in the ALPHABET consortium](#) 

Author(s): Ling-Wei Chen, Adrien M. Aubert, Nitin Shivappa, Jonathan Y. Bernard, Sara M. Mensink-Bout, Aisling A. Geraghty, John Mehegan, Matthew Suderman, Kinga Polanska, Wojciech Hanke, Agnieszka Jankowska, Caroline L. Relton, Sarah R. Crozier, Nicholas C. Harvey, Cyrus Cooper, Mark Hanson, Keith M. Godfrey, Romy Gaillard, Liesbeth Duijts, Barbara Heude, James R. Hébert, Fionnuala M. McAuliffe, Cecily C.
Published in: BMC Medicine, Issue 19/1, 2021, ISSN 1741-7015
Publisher: BioMed Central
DOI: 10.1186/s12916-021-01908-7

[Most associations of early-life environmental exposures and genetic risk factors poorly differentiate between eczema phenotypes: the Generation R Study](#) 

Author(s): C. Hu, L. Duijts, N.S. Erler, N.J. Elbert, C. Piketty, V. Bourdès, S. Blanchet-Réthoré, J.C. Jongste, S.G.M.A. Pasmans, J.F. Felix, T. Nijsten
Published in: British Journal of Dermatology, Issue 181/6, 2019, Page(s) 1190-1197, ISSN 0007-0963
Publisher: Blackwell Publishing Inc.
DOI: 10.1111/bjd.17879

[Neonatal DNA methylation and childhood low prosocial behavior: An epigenome-wide association meta-analysis](#) 

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Author(s): Chen Hu, Tamar Nijsten, Evelien R. van Meel, Nicole S. Erler, Christophe Piketty, Nicolette W. de Jong, Suzanne G. M. A. Pasmans, Johan C. de Jongste, Liesbeth Duijts

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Author(s): Paula de Prado-Bert, Carlos Ruiz-Arenas, Marta Vives-Usano, Sandra Andrusaityte, Solène Cadiou, Ángel Carracedo, Maribel Casas, Leda Chatzi, Payam Dadvand, Juan R. González, Regina Grazuleviciene, Kristine B. Gutzkow, Line S. Haug, Carles Hernandez-Ferrer, Hector C. Keun, Johanna Lepeule, Léa Maitre, Rosie McEachan, Mark J. Nieuwenhuijsen, Dolors Pelegrí, Oliver Robinson, Rémy Slama, Marina

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Author(s): Justiina Ronkainen, Estelle Lowry, Anni Heiskala, Iida Uusitalo, Peppi Koivunen, Eero Kajantie, Marja Väärasmäki, Marjo-Riitta Järvelin, Sylvain Sebert

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Author(s): Maribel Casas, Herman T den Dekker, Claudia J Kruithof, Irwin K Reiss, Martine Vrijheid, Jordi Sunyer, Johan C de Jongste, Vincent W V Jaddoe, Liesbeth Duijts

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Author(s): Janine F Felix, Bonnie R Joubert, Andrea A Baccarelli, Gemma C Sharp, Catarina Almqvist, Isabella Annesi-Maesano, Hasan Arshad, Nour Baiz, Marian J Bakermans-Kranenburg, Kelly M Bakulski, Elisabeth B Binder, Luigi Bouchard, Carrie V Breton, Bert Brunekreef, Kelly J Brunst, Esteban G Burchard, Mariona Bustamante, Leda Chatzi, Monica Cheng Munthe-Kaas, Eva Corpeleijn, Darina Czamara, Dana Dabelea,

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Author(s): Johan Björkqvist, Anu-Katriina Pesonen, Liisa Kuula, Hanna-Maria Matinoli, Aulikki Lano, Marika Sipola-Leppänen, Marjaana Tikanmäki, Dieter Wolke, Marjo-Riitta Järvelin, Johan G Eriksson, Sture Andersson, Marja Vääräsmäki, Kati Heinonen, Katri Räikkönen, Petteri Hovi, Eero Kajantie

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Author(s): Małgorzata J. Lubczyńska, Jordi Sunyer, Henning Tiemeier, Daniela Porta, Monika Kasper-Sonnenberg, Vincent W.V. Jaddoe, Xavier Basagaña, Albert Dalmau-Bueno, Francesco Forastiere, Jürgen Wittsiepe, Barbara Hoffmann, Mark Nieuwenhuijsen, Gerard Hoek, Kees de Hoogh, Bert Brunekreef, Mònica Guxens
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Author(s): Robin N Beaumont, Nicole M Warrington, Alana Cavadino, Jessica Tyrrell, Michael Nodzenski, Momoko Horikoshi, Frank Geller, Ronny Myhre, Rebecca C Richmond, Lavinia Paternoster, Jonathan P Bradfield, Eskil Kreiner-Møller, Ville Huikari, Sarah Metrustry, Kathryn L Lunetta, Jodie N Painter, Jouke-Jan Hottenga, Catherine Allard, Sheila J Barton, Ana Espinosa, Julie A Marsh, Catherine Potter, Ge Zhang

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Author(s): Johannes Waage, Marie Standl, John A. Curtin, Leon E. Jessen, Jonathan Thorsen, Chao Tian, Nathan Schoettler, Carlos Flores, Abdel Abdellaoui, Tarunveer S. Ahluwalia, Alexessander C. Alves, Andre F. S. Amaral, Josep M. Antó, Andreas Arnold, Amalia Barreto-Luis, Hansjörg Baurecht, Catharina E. M. van Beijsterveldt, Eugene R. Bleecker, Sílvia Bonàs-Guarch, Dorret I. Boomsma, Susanne Brix, Supind

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Author(s): Mònica Guxens, Małgorzata J. Lubczyńska, Ryan L. Muetzel, Albert Dalmau-Bueno, Vincent W.V. Jaddoe, Gerard Hoek, Aad van der Lugt, Frank C. Verhulst, Tonya White, Bert Brunekreef, Henning Tiemeier, Hanan El Marroun

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Author(s): Maja Popovic, Valentina Fiano, Francesca Fasanelli, Morena Trevisan, Chiara Grasso, Manuela Bianca Assumma, Anna Gillio-Tos, Silvia

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Author(s): Harriet L. Mills, Nashita Patel, Sara L. White, Dharmindra Pasupathy, Annette L. Briley, Diana L. Santos Ferreira, Paul T. Seed, Scott M. Nelson, Naveed Sattar, Kate Tilling, Lucilla Poston, Deborah A. Lawlor

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Author(s): Doretta Caramaschi, Charlie Hatcher, Rosa H. Mulder, Janine F. Felix, Charlotte A. M. Cecil, Caroline L. Relton, Esther Walton

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Author(s): Philippa K Bird, Kate E Pickett, Hilary Graham, Tomas Faresjö, Vincent W V Jaddoe, Johnny Ludvigsson, Hein Raat, Louise Seguin, Anne I Wiltjes, Jennifer J McGrath

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Author(s): Susana Santos, Iris Eekhout, Ellis Voerman, Romy Gaillard, Henrique Barros, Marie-Aline Charles, Leda Chatzi, Cécile Chevrier, George P. Chrousos, Eva Corpeleijn, Nathalie Costet, Sarah Crozier, Myriam Doyon, Merete Eggesbø, Maria Pia Fantini, Sara Farchi, Francesco Forastiere, Luigi Gagliardi, Vagelis Georgiu, Keith M. Godfrey, Davide Gori, Veit Grote, Wojciech Hanke, Irva Hertz-Picciotto, Barb

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Author(s): Andres Cardenas, Sabrina Faleschini, Andrea Cortes Hidalgo, Sheryl L. Rifas-Shiman, Andrea A. Baccarelli, Dawn L. DeMeo, Augusto A. Litonjua, Alexander Neumann, Janine F. Felix, Vincent W. V. Jaddoe, Hanan El Marroun, Henning Tiemeier, Emily Oken, Marie-France Hivert, Heather H. Burris

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Author(s): Petri Wiklund, Ville Karhunen, Rebecca C. Richmond, Priyanka Parmar, Alina Rodriguez, Maneka De Silva, Matthias Wielscher, Faisal I. Rezwan, Tom G. Richardson, Juha Veijola, Karl-Heinz Herzig, John W. Holloway, Caroline L. Relton, Sylvain Sebert, Marjo-Riitta Järvelin

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Author(s): Priyanka Parmar, Estelle Lowry, Giovanni Cugliari, Matthew Suderman, Rory Wilson, Ville Karhunen, Toby Andrew, Petri Wiklund, Matthias Wielscher, Simonetta Guarrera, Alexander Teumer, Benjamin Lehne, Lili Milani, Niek de Klein, Pashupati P. Mishra, Phillip E. Melton, Pooja R. Mandaviya, Silva Kasela, Jana Nano, Weihua Zhang, Yan Zhang, Andre G. Uitterlinden, Annette Peters, Ben Schöttker, Christi

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Author(s): Herman T. den Dekker, Kimberley Burrows, Janine F. Felix, Lucas A. Salas, Ivana Nedeljkovic, Jin Yao, Sheryl L. Rifas-Shiman, Carlos Ruiz-Arenas, N. Amin, Mariona Bustamante, Dawn L. DeMeo, A. John Henderson, Caitlin G. Howe, Marie-France Hivert, M. Arfan Ikram, Johan C. de Jongste, Lies Lahousse, Pooja R. Mandaviya, Joyce B. van Meurs, Mariona Pinart, Gemma C. Sharp, Lisette Stolk, André G. U

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Author(s): Juan Verdejo-Román, Lassi Björnholm, Ryan L. Muetzel, Francisco José Torres-Espínola, Johannes Lieslehto, Vincent Jaddoe, Daniel Campos, Juha Veijola, Tonya White, Andrés Catena, Juha Nikkinen, Vesa Kiviniemi, Marjo-Riitta Järvelin, Henning Tiemeier, Cristina Campoy, Sylvain Sebert, Hanan El Marroun
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Author(s): Leanne K. Küpers, Claire Monnereau, Gemma C. Sharp, Paul Yousefi, Lucas A. Salas, Akram Ghanous, Christian M. Page, Sarah E. Reese, Allen J. Wilcox, Darina Czamara, Anne P. Starling, Alexei Novoloaca, Samantha Lent, Ritu Roy, Cathrine Hoyo, Carrie V. Breton, Catherine Allard, Allan C. Just, Kelly M. Bakulski, John W. Holloway, Todd M. Everson, Cheng-Jian Xu, Rae-Chi Huang, Diana A. van der Plaats

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Author(s): Bernadeta Patro Golab, Susana Santos, Ellis Voerman, Debbie A Lawlor, Vincent W V Jaddoe, Romy Gaillard, Bernadeta Patro Golab, Susana Santos, Ellis Voerman, Henrique Barros, Anna Bergström, Marie-Aline Charles,

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Author(s): Jun Liu, Elena Carnero-Montoro, Jenny van Dongen, Samantha Lent, Ivana Nedeljkovic, Symen Ligthart, Pei-Chien Tsai, Tiphaine C. Martin, Pooja R. Mandaviya, Rick Jansen, Marjolein J. Peters, Liesbeth Duijts, Vincent W. V. Jaddoe, Henning Tiemeier, Janine F. Felix, Gonneke Willemsen, Eco J. C. de Geus, Audrey Y. Chu, Daniel Levy, Shih-Jen Hwang, Jan Bressler, Rahul Gondalia, Elias L. Salfati, Christ

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Author(s): Silvana C. E. Maas, Athina Vidaki, Rory Wilson, Alexander Teumer, Fan Liu, Joyce B. J. van Meurs, André G. Uitterlinden, Dorret I. Boomsma, Eco J. C. de Geus, Gonneke Willemsen, Jenny van Dongen, Carla J. H. van der Kallen, P. Eline Slagboom, Marian Beekman, Diana van Heemst, Leonard H. van den Berg, Liesbeth Duijts, Vincent W. V. Jaddoe, Karl-Heinz Ladwig, Sonja Kunze, Annette Peters, M. Arfan I

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Author(s): Linda Marchioro, Aisling A. Geraghty, Olaf Uhl, Engy Shokry, Eileen C. O'Brien, Berthold Koletzko, Fionnuala M. McAuliffe

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Author(s): Adrien M. Aubert, Anne Forhan, Blandine de Lauzon-Guillain, Ling-Wei Chen, Kinga Polanska, Wojciech Hanke, Agnieszka Jankowska, Sara M. Mensink-Bout, Liesbeth Duijts, Matthew Suderman, Caroline L. Relton, Sarah R. Crozier, Nicholas C. Harvey, Cyrus Cooper, Fionnuala M. McAuliffe, Cecily C. Kelleher, Catherine M. Phillips, Barbara Heude, Jonathan Y. Bernard

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Author(s): Berthold Koletzko, K.M. Godfrey, Lucilla Poston, Hania Szajewska, Johannes B. van Goudoever, Marita de Waard, Brigitte Brands, Rosalie M. Grivell, Andrea R. Deussen, Jodie M. Dodd, Bernadeta Patro-Golab, Bartłomiej M. Zalewski

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Author(s): Jacob P. Thyssen, Tarunveer S. Ahluwalia, Lavinia Paternoster, Natalia Ballardini, Anna Bergström, Erik Melén, Bo L. Chawes, Jakob Stokholm, Jonathan O'B Hourihane, Donnchadh M. O'Sullivan, Peter Bager, Mads Melbye, Mariona Bustamante, Maties Torrent, Ana Esplugues, Liesbeth Duijts, Chen Hu, Niels J. Elbert, Suzanne G. M. A. Pasmans, Tamar E. C. Nijsten, Andrea Berg, Marie Standl, Tamara Schikow

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Author(s): Franca Fabiana Kirchberg, Veit Grote, Dariusz Gruszczyński, Piotr Socha, Ricardo Closa-Monasterolo, Joaquin Escribano, Elvira Verduci,

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Author(s): Evelien R. Meel, Vincent W. V. Jaddoe, Irwin K. M. Reiss, Menno C. Zelm, Johan C. Jongste, Henriëtte A. Moll, Liesbeth Duijts

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Author(s): Lorenza Dall' Aglio, Jolien Rijlaarsdam, Rosa H. Mulder, Alexander Neumann, Janine F. Felix, Rianne Kok, Marian J. Bakermans-Kranenburg, Marinus H. van Ijzendoorn, Henning Tiemeier, Charlotte A.M. Cecil

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Author(s): Freke A. Wilmsink, Herman T. den Dekker, Johan C. de Jongste, Irwin K.M. Reiss, Vincent W.V. Jaddoe, Eric A. Steegers, Liesbeth Duijts

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Author(s): Kinga Polanska, Pawel Kaluzny, Adrien M. Aubert, Jonathan Y. Bernard, Liesbeth Duijts, Hanan El Marroun, Wojciech Hanke, James R. Hébert,

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Author(s): Florianne O L Vehmeijer, Susana Santos, Romy Gaillard, Yolanda B de Rijke, Trudy Voortman, Erica L T van den Akker, Janine F Felix, Elisabeth F C van Rossum, Vincent W V Jaddoe

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Author(s): Christel M. Middeldorp, Janine F. Felix, Anubha Mahajan, Mark I. McCarthy

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Author(s): Tuija M Mikkola, Mikaela B von Bonsdorff, Minna K Salonen, Hannu Kautiainen, Leena Ala-Mursula, Svetlana Solovieva, Eira Viikari-Juntura, Johan G Eriksson

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Author(s): Maja Markovic, Sonja A. Swanson, Bruno H. Stricker, Vincent W.V. Jaddoe, Frank C. Verhulst, Henning Tiemeier, Hanan El Marroun

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Author(s): Rosa H Mulder, Alexander Neumann, Charlotte A M Cecil, Esther Walton, Lotte C Houtepen, Andrew J Simpkin, Jolien Rijlaarsdam, Bastiaan T Heijmans, Tom R Gaunt, Janine F Felix, Vincent W V Jaddoe, Marian J Bakermans-Kranenburg, Henning Tiemeier, Caroline L Relton, Marinus H van IJzendoorn, Matthew Suderman

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Author(s): Gemma C Sharp, Rossella Alfano, Akram Ghantous, Jose Urquiza, Sheryl L Rifas-Shiman, Christian M Page, Jianping Jin, Silvia Fernández-Barrés, Gillian Santorelli, Gwen Tindula, Gemma C Sharp, Rossella Alfano, Akram Ghantous, Jose Urquiza, Sheryl L Rifas-Shiman, Christian M Page, Jianping Jin, Silvia Fernández-Barrés, Gillian Santorelli, Gwen Tindula, Paul Yousefi, Leanne Kupers, Carlos Ruiz-Are

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Author(s): Ahmed Elhakeem, Rachael A. Hughes, Kate M. Tilling, Diana L. Cousminer, Stefan A. Jackowski, Tim J. Cole, View ORCID Profile Alex S.F. Kwong, Zheyuan Li, Struan F.A. Grant, Adam D.G. Baxter-Jones, Babette S. Zemel, Deborah A. Lawlor

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[Pet ownership and allergic sensitisation and asthma in childhood: findings from the EU Child Cohort Network](#) 

Author(s): Angela Pinot de Moira, Katrine Strandberg-Larsen, Evelien Van Meel, Rosalie Mensink-Bout, Maja Popovic, Tim Cadman, Tiffany Yang, Johanna Thorbjørnsrud Nader, Rachel Foong, Agnieszka Jankowska, Theodosia Salika, Costanza Pizzi, Demetris Avraam, Ahmed Elhakeem, Aitana Lertxundi, Maribel Casas, Ana Esplugues, Marisa Estarlich, Jordi Sunyer, Debbie Lawlor, Jennifer Harris, Kinga Polańska, Barbara H

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Other Research Products

Other Research Products via OpenAire (1)



[Epigenome-wide contributions to individual differences in childhood phenotypes: A GREML approach](#) 

Author(s): Neumann, A; Pingault, J-B; Felix, J; Jaddoe, V; Tiemeier, H; Cecil, C; Walton, E

Last update: 27 February 2024

Permalink: <https://cordis.europa.eu/project/id/733206/results>

