

Lecture Series – Children’s Environmental Health in Urban Context

Children’s health is significantly shaped by the environment they grow up in. Ensuring a healthy living environment to prevent childhood diseases is one of the essential tasks of our society. Currently, we observe dramatic change in social and physical disposition of our children and adolescents, often later affecting their adult life. From December 2018 to April 2019 monthly lectures with international guests, all leaders in the field, aim for a variety of scientific perspectives and lively discussions, to open up and nourish an important debate.



Prof. Dr. Mark J Nieuwenhuijsen
IS Global - Barcelona Institute for Global Health - Campus MAR,
Barcelona Biomedical Research Park (PRBB)

Environmental Determinants of Child Health

Date: Tuesday, 22 January 2019, 13:00-15:00

Location: UFZ Leipzig, KUBUS, Lecture hall 1C/D, first floor

Abstract

The **exposome** is defined as the totality of environmental exposures from conception onwards. It calls for providing a holistic view of environmental exposures and their effects on human health by evaluating multiple environmental exposures simultaneously during critical time periods of life. As part of the EU funded **HELIX** study, the **early life exposome** was assessed and related to a number of **child health outcomes**. This includes growth and development, respiratory and cardiovascular disease and cognitive functioning. The talk will focus on the **environmental (outdoor) assessment** and proposed **analyses of health**.

Topic related publications

Nieuwenhuijsen M and Khreis H (eds) (2018): Integrating health into urban and transport planning. Springer. ISBN 978-3-319-74982-2

Robinson O, **Nieuwenhuijsen MJ** et al. (2018): The Urban Exposome during Pregnancy and Its Socio-economic Determinants. *Environ Health Perspect.* 126(7):077005

Vrijheid M, **Nieuwenhuijsen MJ** et al. (2014): The Human Early-Life Exposome (HELIX): Project Rationale and Design. *Environ Health Perspect.* 122(6):535-44

Short bio

Prof. Dr. Mark J Nieuwenhuijsen is a world leading expert in **environmental exposure assessment**, epidemiology and health risk/impact assessment with a strong focus on healthy urban living. He has expertise in areas of all cause mortality, respiratory and cardiovascular disease, mental health and cognitive function. Further, his research is dealing with **exposure measurement and modelling** of indoor and outdoor air pollution, green space, noise, using **new technology** such as smartphones, personal sensors and remote sensing. He leads international studies, such as *TAPAS*, examining the health impacts of active transport in six European cities; *PHENOTYPE*, examining the relations between green space and health; *ISGlobal funded SUMA HIA* on health impact assessment in low and medium income countries. He is/was a co-investigator in several research projects, among those the three EU funded projects *HELIX*, examining the early life exposome and childhood diseases, *BlueHealth* evaluating the relationship between blue space and health and *LifeCycle* on **birth cohort coordination** in Europe.

He has co-authored more than 400 papers published in peer reviewed journals. In 2018, he was awarded the **ISEE John Goldsmith Award** for outstanding contributions to environmental epidemiology.

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