Climate change, Environmental contaminants and Reproductive health

From 2009-05-01 to 2013-10-31, closed project

Objective

The research project investigates the possible impact of global climate change on reproductive health in one Arctic and two European populations. The key questions to be addressed are, firstly, how may climate change influence human exposure to widespread environmental contaminants and, secondly, how may contaminants impact occurrence of reproductive disorders as sensitive indicators of health? To provide affirmative answers to these questions the proposal will as a first step identify and describe mechanisms by which a changing climate may affect the exposure of Arctic and other human populations to contaminants through change in chemical use and emissions, delivery to the arctic ecosystem as well as processing within the arctic physical environment and human food chain. This work relies on modelling of existing data. Secondly, the project will expand the existing knowledge database on human exposure to polybrominated biphenylethers, perfluorinated surfactants and phthalates by analyses of 1000 biobanked serum samples collected in a EU FP5 project. Thirdly, the project will increase the limited knowledge on links between human exposure to contaminants and reproductive health. This work relies on a large existing parent-child-cohort, where a follow-up survey provide new data that are fed into risk assessment. Furthermore we will perform reviews of experimental and epidemiological literature to identify critical reproductive effects and exposure-response data for selected compounds as input to the risk assessment. Finally the project will integrate data on climate induced changes in contaminant mobility and distribution and links between contaminant exposure and reproductive health into a risk evaluation providing insight into possible future risk scenarios related to global climate change. The project draws upon a network of experts in climate modelling and in experimental, epidemiological and risk assessment methodologies and builds upon three established cohorts in Greenland, Poland and Ukraine.

Related information

Result In Brief

Climate change and reproductive health

Report Summaries

Final Report Summary - CLEAR (Climate change, Environmental contaminants and Reproductive health)
Coordinator

AARHUS UNIVERSITETSHOSPITAL
PALLE JUUL-JENSENS BOULEVARD 99
8200 AARHUS
Denmark

See on map

Activity type: Higher or Secondary Education Establishments

Administrative contact: Gunnar Toft
Tel.: +45 8949 4291
Fax: +45 89494260
Contact the organisation

Participants

LUNDS UNIVERSITET
Paradisgatan 5c
22100 Lund
Sweden

EU contribution: EUR 814 200

Activity type: Higher or Secondary Education Establishments

Administrative contact: Bo Jönsson
Tel.: +4646173186
Fax: +4646173702
Contact the organisation

THE GOVERNING COUNCIL OF THE UNIVERSITY OF TORONTO
KINGS COLLEGE CIRCLE 27
M5S 1A1 TORONTO
Canada

See on map

EU contribution: EUR 81 360

Activity type: Higher or Secondary Education Establishments

Administrative contact: Frank Wania
Tel.: +1 416 287 7225
Fax: +1 416 287 7279
Contact the organisation
GRONLANDS NATURINSTITUT
Kivioq 2
3900 NUUK
Greenland
See on map

**Activity type:** Higher or Secondary Education Establishments

**Administrative contact:** Henning Sloth Pedersen
Tel.: +299 361200
Fax: +299 36 12 12

Kivioq 2
3900 NUUK
Greenland

EU contribution: EUR 170 280

NARODOWY INSTYTUT ZDROWIA PUBLICZNEGO-PANSTWOWY ZAKLAD HIGIENY
CHOCIMSKA 24
00791 WARSZAWA
Poland

See on map

**Activity type:** Research Organisations

**Administrative contact:** Jan Ludwicki
Tel.: +48 22 8497 084
Fax: +48 22 8497 441

Kharkiv National Medical University
Lenin Avenue 4
61022 Kharkiv
Ukraine

EU contribution: EUR 91 500

Kharkiv National Medical University
Lenin Avenue 4
61022 Kharkiv
Ukraine

**Activity type:** Higher or Secondary Education Establishments

**Administrative contact:** Valentyna Zvezday
Tel.: +38 057 7121 129
Fax: +38 057 738 70 88

LUNGOTEVERE GRANDE AMMIRAGLIO THAON DI REVEL 76
000196 ROMA
Italy

See on map

**Activity type:** Higher or Secondary Education Establishments

**Administrative contact:** Carmine Marchetti
Tel.: +39 06 30486566
Fax: +39 06 30486669

AGENZIA NAZIONALE PER LE NUOVE TECNOLOGIE, L'ENERGIA E LO SVILUPPO ECONOMICO SOSTENIBILE
LUNGOTEVERE GRANDE AMMIRAGLIO THAON DI REVEL 76
000196 ROMA
Italy

EU contribution: EUR 132 778

AGENZIA NAZIONALE PER LE NUOVE TECNOLOGIE, L'ENERGIA E LO SVILUPPO ECONOMICO SOSTENIBILE
LUNGOTEVERE GRANDE AMMIRAGLIO THAON DI REVEL 76
000196 ROMA
Italy

See on map

**Activity type:** Higher or Secondary Education Establishments

**Administrative contact:** Carmine Marchetti
Tel.: +39 06 30486566
Fax: +39 06 30486669

AGENZIA NAZIONALE PER LE NUOVE TECNOLOGIE, L'ENERGIA E LO SVILUPPO ECONOMICO SOSTENIBILE
LUNGOTEVERE GRANDE AMMIRAGLIO THAON DI REVEL 76
000196 ROMA
Italy

See on map

**Activity type:** Higher or Secondary Education Establishments

**Administrative contact:** Carmine Marchetti
Tel.: +39 06 30486566
Fax: +39 06 30486669

AGENZIA NAZIONALE PER LE NUOVE TECNOLOGIE, L'ENERGIA E LO SVILUPPO ECONOMICO SOSTENIBILE
LUNGOTEVERE GRANDE AMMIRAGLIO THAON DI REVEL 76
000196 ROMA
Italy

See on map

**Activity type:** Higher or Secondary Education Establishments

**Administrative contact:** Carmine Marchetti
Tel.: +39 06 30486566
Fax: +39 06 30486669

AGENZIA NAZIONALE PER LE NUOVE TECNOLOGIE, L'ENERGIA E LO SVILUPPO ECONOMICO SOSTENIBILE
LUNGOTEVERE GRANDE AMMIRAGLIO THAON DI REVEL 76
000196 ROMA
Italy

See on map

**Activity type:** Higher or Secondary Education Establishments

**Administrative contact:** Carmine Marchetti
Tel.: +39 06 30486566
Fax: +39 06 30486669

AGENZIA NAZIONALE PER LE NUOVE TECNOLOGIE, L'ENERGIA E LO SVILUPPO ECONOMICO SOSTENIBILE
LUNGOTEVERE GRANDE AMMIRAGLIO THAON DI REVEL 76
000196 ROMA
Italy

See on map

**Activity type:** Higher or Secondary Education Establishments

**Administrative contact:** Carmine Marchetti
Tel.: +39 06 30486566
Fax: +39 06 30486669

AGENZIA NAZIONALE PER LE NUOVE TECNOLOGIE, L'ENERGIA E LO SVILUPPO ECONOMICO SOSTENIBILE
LUNGOTEVERE GRANDE AMMIRAGLIO THAON DI REVEL 76
000196 ROMA
Italy

See on map

**Activity type:** Higher or Secondary Education Establishments

**Administrative contact:** Carmine Marchetti
Tel.: +39 06 30486566
Fax: +39 06 30486669

AGENZIA NAZIONALE PER LE NUOVE TECNOLOGIE, L'ENERGIA E LO SVILUPPO ECONOMICO SOSTENIBILE
LUNGOTEVERE GRANDE AMMIRAGLIO THAON DI REVEL 76
000196 ROMA
Italy

See on map

**Activity type:** Higher or Secondary Education Establishments

**Administrative contact:** Carmine Marchetti
Tel.: +39 06 30486566
Fax: +39 06 30486669

AGENZIA NAZIONALE PER LE NUOVE TECNOLOGIE, L'ENERGIA E LO SVILUPPO ECONOMICO SOSTENIBILE
LUNGOTEVERE GRANDE AMMIRAGLIO THAON DI REVEL 76
000196 ROMA
Italy

See on map
Activity type: Higher or Secondary Education Establishments

Administrative contact: Monique M. Hoek Van Der
Tel.: +31 30 2533566
Fax: +31 30 2537997

Contact the organisation

Subjects

Environmental Protection - Medicine and Health

Last updated on 2017-05-29
Retrieved on 2019-07-05

© European Union, 2019