

B-DEBATE

International Center
for Scientific Debate
BARCELONA



centre for research
in environmental
epidemiology

ENVIRONMENT AND CHILD BRAIN DEVELOPMENT THE CHALLENGES IN THE GLOBAL CONTEXT

PROGRAM

COSMOCAIXA. C/ ISAAC NEWTON, 26. BARCELONA

Thursday, October, 16th, 2014

13:30 **Welcome**

13:45 **SESSION 1: POPULATION NEUROSCIENCE - COHORT STUDIES OF ENVIRONMENT AND BRAIN DEVELOPMENT**

Chairs: **Cathryn Tonne**, London School of Hygiene & Tropical Medicine, London, UK and **Martine Vrijheid**, Centre for Research in Environmental Epidemiology (CREAL), Barcelona Spain

13:45 **Population Neuroscience and the Understanding of Human Neurodevelopment**

Tomáš Paus, Rotman Research Institute, Baycrest Centre for Geriatric Care, Toronto, Canada

14:15 **Pre- and Postnatal Environmental Influences on Brain Structure and Function in School Age Children: Insights from the Generation R and BREATHE studies**

Tonya White, Erasmus University Medical Centre, Rotterdam, The Netherlands, and **Jordi Sunyer**, Centre for Research in Environmental Epidemiology (CREAL), Barcelona, Spain

15:15 **Coffee Break**

15:30 **Pre- and Postnatal Environmental Influences on Brain Structure and Function in School Age Children: Insights from Berkeley, UCLA and Imperial College studies**

Brenda Eskenazi, Center for Environmental Research & Children's Health, University of California, Berkeley, USA, **Beate Ritz**, Fielding School of Public Health, UCLA, Los Angeles, USA and **Paul Ramchandani**, Imperial College London, London, UK

16:45 **Open Debate**

17:45 **Coffee Break**

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18:00 SESSION 2: UNDERSTANDING THE BRAIN DEVELOPMENT IN A CHANGING WORLD

Chairs: **Clara Menéndez**, Barcelona Centre for International Health Research (CRESIB), Barcelona, Spain and **Tomáš Paus**, Rotman Research Institute, Baycrest Centre for Geriatric Care, Toronto, Canada

18:00 Developmental Neurotoxicity: The Silent Epidemic
Philippe Grandjean, Harvard School of Public Health, Boston, USA

18:30 Lead and Neurodevelopment
David Bellinger, Harvard Medical School, University of Harvard, Boston, USA

19:00 Air Pollution in Schools and Neurodevelopment
Jordi Sunyer, Centre for Research in Environmental Epidemiology (CREAL), Barcelona, Spain

19:30 Open Debate

20:00 Cocktail at CosmoCaixa

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9:30 SESSION 3: COGNITION NEUROIMAGING AND GENES IN COHORT STUDIES

Chairs: **Carles Escera**, Institute for Research on the Brain, Cognition and Behaviour (IR3C), University of Barcelona, Barcelona, Spain and **Henning Tiemeier**, Erasmus University Medical Centre, Rotterdam, The Netherlands

9:30 Mapping Cognitive, Emotional and Behavioural Development in the Global Context
Tonya White, Erasmus University Medical Centre, Rotterdam, The Netherlands

10:00 Large-scale Brain Data Processing, the Computational Resources in the Global Context
Juan Domingo Gispert, Pasqual Maragall Foundation, Barcelona, Spain

10:30 Coffee break

11:00 Genes and the Developing Brain
Sylvane Desrivieres, King's College London, London, UK and **Rachel Brouwer** University Medical Center Utrecht (UMC), Utrecht, The Netherlands

12:00 Open Debate

13:00 Lunch

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**14:00 SESSION 4: FUTURE DIRECTIONS OF POPULATION
NEUROSCIENCE IN THE GLOBAL CONTEXT**

Chairs: **Victor Pérez**, Neuropsychiatry and Addiction (INAD) Institute at Mar Hospital Health Park Barcelona, Barcelona, Spain and **Manolis Kogevinas**, Centre for Research in Environmental Epidemiology (CREAL), Barcelona, Spain

14:00 Epidemiology of Neuroscience

Neil Pearce, London School of Hygiene & Tropical Medicine, London, UK

**14:30 Beyond Neuropsychology: The Potential Assessment of Cognitive Functions in a
Global World**

David Bellinger, Harvard Medical School, University of Harvard, Boston, USA and **Philippe Grandjean**, Harvard School of Public Health, Boston, USA

15:30 Coffee break

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16:00 SESSION 4: FUTURE DIRECTIONS OF POPULATION NEUROSCIENCE IN THE GLOBAL CONTEXT

Chairs: **Victor Pérez**, Mar Health Park, Barcelona, Spain and **Manolis Kogevinas**, Centre for Research in Environmental Epidemiology (CREAL), Barcelona, Spain

16:00 Beyond Neuroimaging: The Potential Role of Population Neuroscience Research to the Global Mental Health

Henning Tiemeier, Erasmus University Medical Centre, Rotterdam, Netherlands and **Stephan Collishaw**, Institute of Psychological Medicine & Clinical Neurosciences, University of Cardiff, Cardiff, UK

17:00 General Debate: Future Directions in Brain Function and Structure Assessments Among Worldwide Populations

Neil Pearce, London School of Hygiene & Tropical Medicine, London, UK **Brenda Eskenazi**, Center for Environmental Research & Children's Health, University of California, Berkeley, USA **Henning Tiemeier**, Erasmus University Medical Centre, Rotterdam, Netherlands and **Tomáš Paus**, Rotman Research Institute, Baycrest Centre for Geriatric Care, Toronto, Canada

18:00 Conclusions and Recommendations for Future Directions in Neuroscience Populations

Chairs: **Tomáš Paus**, Rotman Research Institute, Baycrest Centre for Geriatric Care, Toronto, Canada and **Jordi Julvez**, Centre for Research in Environmental Epidemiology (CREAL), Barcelona, Spain

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