

HEALS Workshop- Recent advances in understanding links between environmental pressures and health outcomes

**Edinburgh, UK
September 15-17, 2014**

**Hosted by
Institute of Occupational Medicine**

*To take place at the
COSLA Conference Centre*

PRELIMINARY AGENDA

Workshop on recent advances in understanding links between environmental pressures and health outcomes

Monday September 15, 2014

11:00 – 11:15 Welcome address and Opening of the meeting (John Cherrie)

11:15 – 11:45 Introduction – Aim of the meeting (D. Sarigiannis and I. Annesi-Maesano)

11:45 – 12:30 The conceptual framework of HEALS and Work Progress (D. Sarigiannis and I. Annesi-Maesano)

12:30 – 13:30 Lunch

Plenary session

Chairs: Isabella Annesi-Maesano, Denis Sarigiannis

13:30 – 14:00 “Critical life events” in defining when and how frequently biological samples should be collected to define the exposome (N. Baiz)

14:00 – 14:30 Conclusions from Ljubljana (J. Tratnik)

14:30 – 15:00 Studies relating exposure to particulate matter and biological agents to asthma (G. Viegi)

15.00 – 15.30 Coffee/tea Break

15:30 – 16:00 Studies relating neurodevelopmental and neurodegenerative disorders to exposure to metals and pesticides (G. Calamandrei)

16:00 – 16:30 Studies relating adverse health outcomes related to overweight, obesity, diabetes and metabolic disorders to environmental exposures to endocrine disruptors (J. Heinrich)

16:30 – 17:30 Discussion on common mechanisms

19:30 – 21:00 Public lecture: The exposome (David Balshaw) – to be followed by cocktail reception

Tuesday September 16, 2014

Plenary session

9:00 – 9:15 Introduction to the internal and external exposome sessions (Denis Sarigiannis and I. Annesi-Maesano)

Workshop part 1: internal exposome (Chair: D. Sarigiannis, E. Dogliotti)

9:15 – 9:45 Guidelines for exposure biomarkers in HEALS (D4.2) (N. Steckling)

9:45 – 10:00 Omics technologies in analytical exposure biology (R. Stierum)

10:00 – 10:30 Sample optimization for metabolomics/adductomics for agnostic analysis (Andy Povey /M. Dickinson)

10:30 – 10:45 Genomic profiling – the HEALS SNP array (W. van Workum)

10:45 – 11:15 Coffee/tea break

11:15 – 12:00 Exposure biology workflow integration in HEALS (D. Sarigiannis, R. Stierum)

12:00 – 12:45 Biomarker data integration and systems biology (D. Sarigiannis and all – guided discussion)

12:45 – 13:45 Lunch

Workshop part 2: External exposome (Chair: M. Jerrett, J. Bartzis)

13:45 – 14:00 External exposome – current status (J. Bartzis)

14:00 – 14:30 Remote sensing for exposure assessment – the US experience (M. Jerrett)

14:30 – 15:00 The use of sensor technologies in defining the exposome (M. Loh)

15:00 – 15:30 European data on air pollution (outdoor/indoor) (E. Tolis / T. Maggos , E. Oliveira Fernandes)

15:30 -16:00 Coffee/tea break

16:00 – 16:15 European data on water contamination (J. Grimalt)

16:15 – 16:30 Exposure data assimilation (Rainer Friedrich)

- 16:30 – 16:45 The effect of socio-economics on the external exposome (Lauren Smith)
- 16:45 – 17:00 Building the HEALS Geodatabase platform (S. Nousiainen)
- 17:00 – 18:00 Summary and discussion on the external exposome (D. Sarigiannis and I. Annesi-Maesano)
- 20:00 Social dinner

Wednesday September 17, 2014

Chairs: R. Stierum, J. Cherrie

Keynote lecture 3

- 9:00 – 9:45 Ethical issues and the exposome (V. Toccaceli)

Plenary session

- 9:45 – 10:30 The EXHES study and discussion (I. Annesi-Maesano)
- 10:30 – 11:00 *Coffee break*
- 11:00 – 11:30 Dissemination and training activities in HEALS (M. Schuhmacher, S. Boese O'Reilly)
- 11:30 – 13:00 General Assembly (I. Annesi-Maesano, D. Sarigiannis)**
- 13:00 – 14:00 Lunch
- 14:00 – 14:45 Input from the Project Advisory Board (C. Weber, D. Balshaw)
- 14:45 – 15:30 Final discussion and conclusions (I. Annesi-Maesano, D. Sarigiannis)

Coffee break

Management Board

- 16:00 – 17:30 Management Board meeting