

## **HEALS Annual meeting**

**Hersonissos, Crete, Greece  
September 23-25, 2015**

**Hosted by  
Aristotle University of Thessaloniki (AUTH)**

*To take place at  
**Aldemar Knossos Royal Hotel**  
**Limenas Hersonissou, Heraklion 700 14***

### **AGENDA**

#### **Wednesday September 23, 2015**

##### **Pre-meeting Training Workshop**

09:00 – 09:15 Welcome address and Opening of the training sessions (Denis Sarigiannis)

09:15 – 12:00 Training course on assessment of indoor air quality in dwellings (E. Oliveira Fernandes)

09:15 – 09:30 Overview of the training: towards harmonisation of methodologies for indoor air quality monitoring

09:30 – 10:30 Indoor air quality audit

Part 1- Walkthrough/inspection and checklist

*Overview of the main walkthrough/inspection steps, including checklist  
(protocol B) to be used by trained agent*

10:30 – 10:45 *Coffee/tea break*

10:45 – 11:30 Part 2- Indoor air sampling and monitoring by trained agent

*Passive sampling: VOC's and aldehydes*

*Continuous monitoring: particulate matter (PM<sub>2.5</sub>, PM<sub>10</sub>)*

*CO*

*CO<sub>2</sub>, Temperature and relative humidity*

### *Active sampling: biological sampling and phthalates*

11.30 – 12:00 Part 3 - Indoor air quality training knowledge assessment

10:00 – 12:00 Training course on *in silico* (computational) methods (Denis Sarigiannis / Alberto Gotti / Spyros Karakitsios)

09:15 – 09:30 Overview of the training: The need for *in-silico* approaches

09:30 – 10:30 Part 1 – Introduction to internal dosimetry modelling

- *Development of PBBK models – general principles*
- *PBBK for chemical mixtures*
- *Forward estimations and exposure reconstruction*

10:30 – 10:45 *Coffee/tea break*

10:45 – 11:30 Part 2- Application of PBBK modelling

- Internal dosimetry for risk assessment
  - *Assessing internal dose in target tissues / integrating multiple routes of exposure*
  - *Incorporation of biology based dose response*
  - *Linking external exposure to in vitro testing*
- Exposure reconstruction based on HBM data
  - *Exposure reconstruction from spot sampling data*
  - *Exposure reconstruction from time dynamic data*
- Active sampling: biological sampling and phthalates\*

11.30 – 12:00 Part 3 – Expanding the applicability domain – use of QSARs

- QSARs for identifying key PBBK parameters
  - Fraction contribution methods
  - Linear free energy relationship methods
- Prediction of metabolic pathways

12:00 – 13:30 Lunch

## **HEALS Annual Meeting**

*Chairs: Isabella Annesi-Maesano, Denis Sarigiannis*

14:00 – 14:30 Welcome address/Opening of the meeting (Denis Sarigiannis – Isabella Annesi-Maesano)

14:30 – 15:00 HEALS: the current state of play – an overview (Isabella Annesi-Maesano – Denis Sarigiannis)

15:00 – 15:45: Stream 1

- Literature reviews – Miranda Loh
- Networking - Milena Horvat
- Methodological concept development - Denis Sarigiannis

15:45 – 16:15 *Coffee/tea break*

16:15 – 17:30 Stream 2

- Metabolomics analysis of REPRO\_PL and sensor pilot samples - Denis Sarigiannis
- Proteomic analysis of mixtures - Joaquin de Lapuente
- In vitro testing of mixtures - Martine Aggerbeck
- Functional assays (DNA damage) study - Eugenia Dogliotti
- PBPD modelling of metals - Marta Schuhmacher
- Generic lifetime PBPK model development - Spyros Karakitsios
- The DIAMONDS bioinformatics data management platform - Rob Stierum

17:30 – 18:30 Stream 3

- The Environmental Data Management System - John Bartzis / Vagelis Tolis
- The sensors pilot study - Miranda Loh
- The role of SES in Environment and Health studies - Clive Sabel / Lauren Smith
- Exposure data integration / assimilation for external exposome assessment - Rainer Friedrich / Christian Schieberle

### **Thursday September 24, 2015**

*Chairs: Robert Barouki, Marta Schumacher*

#### **Plenary session**

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

#### **9:15 – 11:15 Parallel sessions**

Parallel session 1: The internal exposome – exposure biology

Chair: D. Sarigiannis

Parallel session 2: The external exposome – lifetime exposure assessment  
Chair: J. Bartzis

11:15 – 11:45 *Coffee/tea break*

*Chairs: Robert Barouki, Marta Schumacher*

11:45 – 12:45 Stream 4

- HEALS Geodatabase design and construction (L. Cluitmans)
- EWAS studies (D. Sarigiannis, I. Annesi-Maesano)

12:45 – 14:00 *Lunch*

### **Plenary session**

*Chairs: E. Oliveira Fernandes, S. Bose-O'Reilly*

14:00 – 18:00 Stream 5 – Large-scale population studies

14:00 – 15:30 Pre-existing cohorts

- Giovanni Viegi (asthma and respiratory disease)
- Gemma Calamandrei (neurotoxicity)
- Elisabete Ramos (endocrine disruption, childhood obesity)

15:30 -16:00 *Coffee/tea break*

16:00 – 18:00 EXHES study (I. Annesi-Maesano)

20:00 *Social dinner*

### **Friday September 25, 2015**

*Chairs: R. Stierum, J. Cherrie*

9:00 – 10:30 Overall project synthesis and definition of next steps

Report of the parallel sessions

Parallel session 1: The internal exposome – exposure biology  
(D. Sarigiannis)

Parallel session 2: The external exposome – lifetime exposure  
assessment (J. Bartzis)

EXHES (I. Annesi-Maesano)

Next steps (D. Sarigiannis and I. Annesi-Maesano)

10:30 – 11:00 *Coffee break*

11:00 – 11:30 Dissemination and training activities in HEALS (M. Schuhmacher, J. Grimalt, S. Boese O'Reilly)

**11:30 – 13:00 General Assembly (I. Annesi-Maesano, D. Sarigiannis)**

**Administrative coordination**

*Periodic report - financial report*

*Amendments issues: FERA Novation Agreement*

*Upcoming meetings:*

*Proposal: Annual meeting in Barcelona, September 2016 during the International Network Children Health Environment and Safety (INCHES) conference*

**Scientific coordination**

*Deliverables*

*Others*

**Communication and dissemination**

*HEALS webpage*

*Internal communication*

*Strategic dissemination plan: Newsletter dissemination*

*13:00 – 14:00 Lunch*

**Advisory Boards feedback**

*Chairs: Isabella Annesi-Maesano, Denis Sarigiannis*

**14:00 – 14:45 Input from the Project Advisory Board (C. Weber)**

**14:45 – 15:30 Input from the Ethics Advisory Board on privacy of data (L. Casteleyn)**

**15:00 – 15:30 Final discussion and conclusions (I. Annesi-Maesano, D. Sarigiannis)**