

**COURSE ON:
MODERN METHODS IN OCCUPATIONAL EPIDEMIOLOGY**

A training school coordinated by COST Action CA16216 “Network on the Coordination and Harmonisation of European Occupational Cohorts”

To be held as part of the European Educational Programme in Epidemiology (EEPE)

**Florence, Italy
11-15 June 2018**

Course coordinators:

Neil Pearce, The London School of Hygiene & Tropical Medicine
Michelle Turner, Barcelona Institute for Global Health (ISGlobal)

Course faculty:

John Cherrie, Institute of Occupational Medicine (IOM)
Manolis Kogevinas, Barcelona Institute for Global Health (ISGlobal)
Neil Pearce, The London School of Hygiene & Tropical Medicine
Eva Schernhammer, Medical University of Vienna
Michelle Turner, Barcelona Institute for Global Health (ISGlobal)



Course description: Occupation and paid employment is an essential component of adult life and a major determinant of health and healthy ageing. Several work-related aspects, including working long hours and various chemical/physical exposures, have been associated with cancer, cardiovascular disease, depression and a broad range of other health outcomes. This introductory course on Modern Methods in Occupational Epidemiology, seeks to provide training and networking opportunities for students and early career researchers in occupational epidemiology and exposure assessment. The pre-course will cover topics on: study design in occupational epidemiology, exposure assessment, risk assessment, types of bias including confounding and the use of Directed Acyclic Graphs (DAGs), and current debates on causality. The format of the course will be based on a series of faculty lectures and student exercises. Basic knowledge of epidemiology, occupational health, or a related discipline is required.

Registration: Please register via the EEPE website: <http://www.eepe.org/>

Training grant: A limited number of training grants will be available to support course participation by students and early career researchers in occupational epidemiology from COST Full Member / Cooperating Member countries, Approved NNC institutions, or Approved European RTD Organizations.

Student presentations: Two student presentations of 5 minutes each (plus 10 minutes for discussion) will be organized each day for the first 4 days of the course to present and discuss any methodological issue in the student's ongoing work in occupational epidemiology. Interested students can send a title and short summary (maximum ½ page) of the proposed presentation to the course coordinators (Neil Pearce: Neil.Pearce@lshtm.ac.uk and Michelle Turner: michelle.turner@isglobal.org) by May 15, 2018.

Program Monday 11 June 2018

08:30 – 09:30	Epidemiology and occupational health Manolis Kogevinas
09:30 – 10:30	Overview of study designs Neil Pearce
10:30 – 11:00	Coffee Break
11:00 – 12:00	Overview of types of bias Neil Pearce
12:00 – 13:00	Occupational cross-sectional studies Manolis Kogevinas
13:00 – 14:00	Lunch
14:30 – 15:30	Guest Lecture 1 Michelle Turner – International collaboration in occupational health
15:30 – 16:00	Coffee Break
16:00 – 17:30	Exercise 1: study design Manolis Kogevinas
17:30 – 18:00	Student Presentations

Welcome drinks

Program Tuesday 12 June 2018

08:30 – 09:30 Occupational case-control studies 1

Michelle Turner

09:30 – 10:30 Occupational case-control studies 2

Michelle Turner

10:30 – 11:00 Coffee Break

11:00 – 12:00 Occupational cohort studies 1

Eva Schernhammer

12:00 – 13:00 Occupational cohort studies 2

Eva Schernhammer

13:00 – 14:00 Lunch

14:30 – 15:30 Guest lecture 2

Eva Schernhammer - Cohort studies of working hours

15:30 – 16:00 Coffee Break

16:00 – 17:30 Exercise 2: cohort studies

Michelle Turner

17:30 – 18:00 Student Presentations

Evening Guest Lecture: Neil Pearce “The epidemic you have never heard of: chronic kidney disease of unknown cause”

Program Wednesday 13 June 2018

08:30 – 09:30 **Exposure assessment 1**
John Cherrie

09:30 – 10:30 **Exposure assessment 2**
John Cherrie

10:30 – 11:00 **Coffee Break**

11:00 – 12:00 **Guest lecture 3**
John Cherrie – TBD

12:00 – 13:00 **Exercise 3: exposure assessment**
John Cherrie

13:00 – 14:00 **Lunch**

14:30 – 15:30 **Risk assessment 1**
Michelle Turner

15:30 – 16:00 **Coffee break**

16:00 – 17:30 **Risk assessment 2**
Manolis Kogevinas

17:30 – 18:00 **Student Presentations**

**Sangria
Party**

Program Thursday 14 June 2018

08:30 – 09:30 **New Study Designs**
Manolis Kogevinas

09:30 – 10:30 **Confounding**
Manolis Kogevinas

10:30 – 11:00 **Coffee Break**

11:00 – 12:00 **Modelling Strategies**
Neil Pearce

12:00 – 13:00 **Directed Acyclic Graphs (DAGs)**
Neil Pearce

13:00 – 14:00 **Lunch**

14:30 – 15:30 **Guest lecture 4**
Manolis Kogevinas – Occupational Cancer in the XXI Century

15:30 – 16.00 **Coffee break**

16:00 – 17:30 **Exercise 4: Confounding/Directed Acyclic Graphs (DAGs)**
Neil Pearce

17:30 – 18:00 **Student Presentations**

Program Friday 15 June 2018

08:30 – 09:30 **Current debates on causality in occupational epidemiology**

Neil Pearce

09:30 – 10:30 **Triangulation**

Neil Pearce

10:30 – 11:00 **Coffee Break**

11:00 – 12:00 **Exposome**

Manolis Kogevinas

12:00 – 13:00 **Final session – course certificates and discussion of priorities
for occupational epidemiology**

Neil Pearce/Michelle Turner

13:00 – 14:00 **Lunch**
