



# **European Educational Programme in Epidemiology**

**31<sup>st</sup> RESIDENTIAL SUMMER COURSE  
FLORENCE, ITALY  
Main course 18 JUNE - 6 JULY 2018**



# European Educational Programme in Epidemiology

## Tuesday Evening Lectures

Tuesday evening lectures are given by distinguished epidemiologists, cover current important issues and controversies in epidemiology, are informal, and aim to promote discussion

**Tuesday 19 June 2018, 19:00-20:00**

**Rodolfo Saracci**

Prevention, at the core of population health

**Tuesday 26 June 2018, 19:00-20:00**

**Neil Pearce**

Asthma drugs and asthma deaths

**Tuesday 3 July 2018, 19:00-20:00**

**Bianca De Stavola**

Multiple questions for multiple mediators in the study of onset of eating disorders



# European Educational Programme in Epidemiology

**WEEK 1: 18 – 22 June 2018**

EM1: Epidemiological methods 1: basic principles  
and introduction to study design

SM1: Statistical models in epidemiology 1: basic  
principles

**WEEK 1: 18 – 24 June 2018**

**EM1:** Epidemiological methods 1: basic principles and introduction to study design

**SM1:** Statistical models in epidemiology 1: basic principles

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**Program Monday 18 June 2018**

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08:30 – 08:45 **Introduction: Lorenzo Richiardi**

08:45 – 09:30 **EM1: Rodolfo Saracci**  
Population health, the core of epidemiology

09:30 – 10:30 **SM1: Simon Cousens**  
Sampling and confidence intervals

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10:30 – 11:00 **Coffee Break**

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11:00 – 12:00 **EM1: Franco Merletti**  
Measures of occurrence of disease

12:00 – 13:00 **SM1: Costanza Pizzi and Simon Cousens**  
Installation of STATA

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13:00 – 14.30 **Lunch**

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14:30 – 15:00 **SM1: Costanza Pizzi**  
Introduction to STATA

15:00 – 16:00 **SM1: Simon Cousens and Costanza Pizzi**  
Statistics practical 1

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16:00 – 16:30 **Coffee point available**

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16:30 – 17:15 **EM1: Lorenzo Richiardi**  
Exposure and outcome measurements in epidemiology

17:15 – 18.45 **EM1: Exercise on exposure and outcome measurements**

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19:00 **WELCOME DRINKS**

**WEEK 1: 18 – 24 June 2018**

**EM1:** Epidemiological methods 1: basic principles and introduction to study design

**SM1:** Statistical models in epidemiology 1: basic principles

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**Program Tuesday 19 June 2018**

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08:30 – 09:30

**SM1: Simon Cousens**  
Statistical tests and P-values

09:30 – 10:30

**SM1: Simon Cousens and Costanza Pizzi**  
Statistics practical 2

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10:30 – 11:00

**Coffee Break**

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11:00 – 12:00

**EM1: Anne-Marie Nybo Andersen**  
Overview of study designs

12:00 – 13:00

**EM1: Franco Merletti**  
Measures of association and attributable risk

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13:00 – 14:30

**Lunch**

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14:30 – 15:15

**SM1: Simon Cousens**  
Introduction to likelihood

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15:15 – 16:00

**Coffee point available**

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16:00 – 17:00

**EM1: Anne-Marie Nybo Andersen**  
Introduction to bias

17:00 – 18:30

**EM1:** Exercise: rates and risks

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19:00 – 20:00

**Evening Lecture**

**Rodolfo Saracci**  
Prevention, at the core of population health

**WEEK 1: 18 – 24 June 2018**

**EM1:** Epidemiological methods 1: basic principles and introduction to study design

**SM1:** Statistical models in epidemiology 1: basic principles

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**Program Wednesday 20 June 2018**

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08:30 – 09:30

**SM1: Simon Cousens**

Approximate likelihoods

09:30 – 10:30

**SM1: Simon Cousens and Costanza Pizzi**

Statistics practical 3

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10:30 – 11:00

**Coffee Break**

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11:00 – 12:00

**EM1: Franco Merletti**

Introduction to confounding

12:00 – 13:00

**EM1: Anne-Marie Nybo Andersen**

Cohort studies

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13.00 – 14.30

**Lunch**

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14:30 – 15:30

**SM1: Simon Cousens**

Analyses of risks and odds

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15:30 – 16:00

**Coffee point available**

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16:00 – 17:00

**EM1: Lorenzo Richiardi**

Case-control studies

17:00 – 18:30

**EM1:** Exercise: Cohort studies

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**Sangria Party**

**WEEK 1: 18 – 24 June 2018**

**EM1:** Epidemiological methods 1: basic principles and introduction to study design

**SM1:** Statistical models in epidemiology 1: basic principles

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**Program Thursday 21 June 2018**

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08:30 – 09:30

**SM1: Simon Cousens**  
Confounding and stratification

09:30 – 10:30

**SM1: Simon Cousens and Costanza Pizzi**  
Statistics practical 4

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10:30 – 11:00

**Coffee Break**

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11:00 – 12:00

**EM1: Anne-Marie Nybo Andersen**  
Cross sectional studies

12:00 – 13:00

**EM1: Lorenzo Richiardi**  
Introduction to DAGs (Directed Acyclic Graphs) 1

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13.00 – 14.30

**Lunch**

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14:30 – 15:30

**EM1: Costanza Pizzi**  
Introduction to the bladder cancer dataset

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15:30 – 16:00

**Coffee point available**

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16:00 – 17:00

**EM1: Lorenzo Richiardi**  
Temporal trends and geographical variations

17:00 – 18:30

**EM1: Exercise: DAGs**

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**WEEK 1: 18 – 24 June 2018**

**EM1:** Epidemiological methods 1: basic principles and introduction to study design

**SM1:** Statistical models in epidemiology 1: basic principles

**Program Friday 22 June 2018**

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08:30 – 09:30 **EM1: Daniela Zugna**  
DAGs (Directed Acyclic Graphs) 2

09:30 – 10:30 **EM1: Lorenzo Richiardi**  
Intervention studies

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10:30 – 11:00 **Coffee Break**

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11:00 – 12:00 **SM1: Simon Cousens**  
Analyses of rates

12:00 – 13:00 **SM1: Simon Cousens**  
Introduction to survival analysis

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13.00 – 14.00 **Lunch**

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14:00 – 15:00 **SM1: Simon Cousens and Costanza Pizzi**  
Statistics practical 5

15:00 – 16:16 **EM1:** Exercise: critical reading

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# European Educational Programme in Epidemiology

**WEEK 2: 25 June – 29 June 2018**

EM2: Epidemiological methods 2

SM2: Statistical models in epidemiology 2

DA: Data analysis exercises

**WEEK 2: 25 June – 29 June 2018**  
EM2: Epidemiological methods 2: case-control studies  
SM2: Statistical models in epidemiology 2  
DA: Data analysis exercises

**Program Monday 25 June 2018**

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08:30 – 09:30 **EM2: Kate Tilling**  
Cohort studies 2

09:30 – 10:15 **SM2: Cono Ariti**  
Logistic regression 1 – Introduction

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10:15 – 10:45 **Coffee Break**

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10:45 – 11:30 **SM2: Cono Ariti**  
Analysis of Case Control Studies

11:30 – 13:00 **SM2: Cono Ariti, Kate Tilling, Stefania Curti and Aurelio Tobias**  
Statistics practical 1

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13:00 – 14:00 **Lunch**

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14:30 – 15:30 **EM2: Neil Pearce**  
Case-control studies 2: selection of controls

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15:30 **Coffee point available**

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15:45 – 18:30 **DA: Data analysis team**  
Data analysis exercise 1

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**WEEK 2: 25 June – 29 June 2018**  
EM2: Epidemiological methods 2: case-control studies  
SM2: Statistical models in epidemiology 2  
DA: Data analysis exercises

**Program Tuesday 26 June 2018**

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08:30 – 09:30 **EM2: Kate Tilling**  
Information and selection bias

09:30 – 10:15 **SM2: Cono Ariti**  
Review: Confounding

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10:15 – 10:45 **Coffee Break**

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10:45 – 11:30 **SM2: Cono Ariti**  
Logistic regression 2 – adjusted models

11:30 – 13:00 **SM2: Cono Ariti, Kate Tilling, Stefania Curti and Aurelio Tobias**  
Statistics practical 2

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13:00 – 14:00 **Lunch**

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14:30 – 15:30 **EM2: Neil Pearce**  
Modelling strategy

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15:30 **Coffee point available**

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15:45 – 18:30 **DA: Analysis team**  
Data analysis exercise 2

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19:00 – 20:00 **Evening Lecture**  
  
**Neil Pearce**  
Asthma drugs and asthma deaths

**WEEK 2: 25 June – 29 June 2018**  
EM2: Epidemiological methods 2: case-control studies  
SM2: Statistical models in epidemiology 2  
DA: Data analysis exercises

**Program Wednesday 27 June 2018**

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08:30 – 09:30	<b>EM2: Milena Maule</b> Construction of a questionnaire
09:30 – 10:15	<b>SM2 : Cono Ariti</b> Logistic regression 3 – effect modification
10:15 – 10:45	<b>Coffee Break</b>
10:45 – 11:30	<b>SM2: Cono Ariti</b> Logistic regression 3 effect modification (continued)
11:30 – 13:00	<b>SM2: Cono Ariti, Kate Tilling, Stefania Curti and Aurelio Tobias</b> Statistics practical 3
13.00 – 14.00	<b>Lunch</b>
14:30 – 15:30	<b>EM2: Neil Pearce</b> Interaction and effect modification
15:30	<b>Coffee point available</b>
15:45 – 18:30	<b>DA: Analysis team</b> Data analysis exercise 3

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**Sangria Party**

**WEEK 2: 25 June – 29 June 2018**  
EM2: Epidemiological methods 2: case-control studies  
SM2: Statistical models in epidemiology 2  
DA: Data analysis exercises

**Program Thursday 28 June 2018**

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08:30 – 09:30	<b>EM2: Aurelio Tobias</b> Meta-analysis
09:30 – 10:15	<b>SM2: Cono Ariti</b> Logistic regression 4 – dose response
10:15 – 10:45	<b>Coffee Break</b>
10:45 – 11:30	<b>SM2: Cono Ariti</b> Logistic regression 5 – Analysis of matched case control studies
11:30 – 13:00	<b>SM2: Cono Ariti, Kate Tilling, Stefania Curti and Aurelio Tobias</b> Statistics practical 4
13.00 – 14.00	<b>Lunch</b>
14:30 – 15:30	<b>EM2: Milena Maule</b> Case-control studies 3: nested, case-cohort, and case-crossover studies
15:30	<b>Coffee point available</b>
15.45 – 18:30	<b>DA: Analysis team</b> Data analysis exercise 4

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**WEEK 2: 25 June – 29 June 2018**  
EM2: Epidemiological methods 2: case-control studies  
SM2: Statistical models in epidemiology 2  
DA: Data analysis exercises

**Program Friday 29 June 2018**

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08:30 – 09:30 **EM2: Kate Tilling**

Missing data

09:30 – 10:15

**SM2: Cono Ariti**

Introduction to survival analysis 1

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10:15 – 10:45

**Coffee Break**

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10:45 – 11:30

**SM2: Cono Ariti**

Introduction to survival analysis 2

11:30 – 13:00

**SM2: Cono Ariti, Kate Tilling, Stefania Curti and Aurelio Tobias**

Statistics practical 5

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13.00 – 14.00

**Lunch**

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14:00 – 16:00

**EM2: Neil Pearce**

Causality

**EM2: all teachers**

General questions and discussion

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**SATURDAY 30 JUNE or SUNDAY 1 JULY 2018**

**Optional day excursion to surrounding sites (such as San Gimignano)**



# European Educational Programme in Epidemiology

**WEEK 3: 2-6 July 2018**

Parallel morning and afternoon modules

**WEEK 3: 2-6 July 2018**

Parallel morning and afternoon modules

**Parallel morning modules: 2-5 July, 09:00 – 13:00**

**Advanced statistical topics**

Per Kragh Andersen, Corrado Lagazio and Michaela Baccini

**Genetic epidemiology: genome-wide association studies and whole genome approaches to the study of disease**

David Evans and Gibran Hemani

**Advanced topics in epidemiology**

Jan Vandembroucke and Irene Petersen

**From epidemiology to the burden of disease: putting risks in perspective**

Nino Künzli and Thomas Fürst

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**Parallel afternoon modules: 2-5 July, 14:30 – 18:30**

**Clinical epidemiology**

Olof Akre and Emanuele Pivetta

**Causal methods in epidemiology: Mendelian Randomization and triangulation**

Debbie Lawlor and Carolina Borges

**Environmental epidemiology**

Josep M. Antó and Jordi Sunyer

**Concepts and methods in causal mediation analysis**

Bianca DeStavola

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**Friday plenary session: 6 July, 09:00 – 13:00**

**Saracci Lecture** and Closing Session

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**WEEK 3: 2-6 July 2018**

Parallel morning and afternoon modules

**Tuesday Evening Lecture, 3 July 2018, 19:00-20:00**

**“ Bianca De Stavola**

Multiple questions for multiple mediators in the study of onset of eating disorders

**Thursday 5 July 2018, 20:00 - ?**

Course Dinner at the patio

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**WEEK 3: 2-6 July 2018**

Parallel morning and afternoon modules

**ADVANCED STATISTICAL TOPICS**

**Per Kragh Andersen, Corrado Lagazio and Michela Baccini**

**MONDAY 2 JULY 2018**

09:00 – 13:00 Cohort sampling

**TUESDAY 3 JULY 2018**

09:00 – 13:00 Competing risks

**WEDNESDAY 4 JULY 2018**

09:00 – 13:00 Recurrent events

**THURSDAY 5 JULY 2018**

09:00 – 13:00 Causal inference and use of propensity score

**WEEK 3: 2-6 July 2018**

Parallel morning and afternoon modules

**GENETIC EPIDEMIOLOGY: GENOME-WIDE ASSOCIATION STUDIES AND  
WHOLE GENOME APPROACHES TO THE STUDY OF DISEASE**

**David Evans and Gibran Hemani**

**MONDAY 2 JULY 2018**

09:00 – 13:00 Introduction to genetics

**TUESDAY 3 JULY 2018**

09:00 – 13:00 Genome-wide Association Studies I (GWAS)

**WEDNESDAY 4 JULY 2018**

09:00 – 13:00 Genome-wide Association Studies II (GWAS)

**THURSDAY 5 JULY 2018**

09:00 – 13:00 Whole genome approaches to genetic epidemiology

**WEEK 3: 2-6 July 2018**

Parallel morning and afternoon modules

**ADVANCED TOPICS IN EPIDEMIOLOGY**

**Jan Vandembroucke and Irene Petersen**

**MONDAY 2 JULY 2018**

09:00 – 13:00 Instrumental variable analysis and regression discontinuity designs/analysis (Jan Vandembroucke)

**TUESDAY 3 JULY 2018**

09:00 – 13:00 Interaction: from the old to the new, from statistics to epidemiology and causality (Jan Vandembroucke)

**WEDNESDAY 4 JULY 2018**

09:00 – 13:00 Missing Data and Multiple Imputation Part 1 (Irene Petersen)

**THURSDAY 5 JULY 2018**

09:00 – 13:00 Missing Data and Multiple Imputation Part 2 (Irene Petersen)

**WEEK 3: 2-6 July 2018**

Parallel morning and afternoon modules

**FROM EPIDEMIOLOGY TO THE BURDEN OF DISEASE: PUTTING RISKS IN PERSPECTIVE**

**Nino Künzli and Thomas Fürst**

**MONDAY 2 JULY 2018**

09:00-13:00 From risk to impact – PART I

**TUESDAY 3 JULY 2018**

09:00-13:00 From risk to impact – PART II

**WEDNESDAY 4 JULY 2018**

09:00-13:00 From risk to impact – PART III

**THURSDAY 5 JULY 2018**

09:00-13:00 From risk to impact – PART IV

**WEEK 3: 2-6 July 2018**

Parallel morning and afternoon modules

**CLINICAL EPIDEMIOLOGY: THE EVALUATION OF MEDICAL TESTS**

**Olof Akre and Emanuele Pivetta**

**MONDAY 2 JULY 2018**

14:30-18:30 Introduction to diagnostic studies

**TUESDAY 3 JULY 2018**

14:30-18:30 Diagnostic studies and introduction to prognosis

**WEDNESDAY 4 JULY 2018**

14:30-18:30 Prognostic studies

**THURSDAY 5 JULY 2018**

14:30-18:30 Intervention study design

**WEEK 3: 2-6 July 2018**

Parallel morning and afternoon modules

**CAUSAL METHODS IN EPIDEMIOLOGY: MENDELIAN RANDOMIZATION AND TRIANGULATION**

**Debbie Lawlor and Carolina Borges**

**MONDAY 2 JULY 2018**

- 14:30 – 14:45 Introduction to the module
- 14:45 – 16:00 LECTURE 1: Introduction to instrumental variables and Mendelian randomization (MR) – Deborah Lawlor
- 16:00 – 16:30 Coffee
- 16:30 – 18:00 PRACTICAL 1: One sample Mendelian randomization practical – Carolina Borges & Deborah Lawlor
- 18:00 – 18:30 Group work\* - All

**TUESDAY 3 JULY 2018**

- 14:00 – 14:30 Recap of Day 1 – Carolina Borges
- 14:30 – 16:00 LECTURE 2: Introduction to the principles of two-sample Mendelian randomization – Deborah Lawlor
- 16:00 – 16:30 Coffee
- 16:30 – 18:00 LECTURE 3: Testing the assumptions of two-sample Mendelian randomization – Carolina Borges
- 18:00 – 18:30 Group work\* - All

**WEDNESDAY 4 JULY 2018**

- 14:00 – 14:30 Recap of Day 2 – Deborah Lawlor
- 14:30 – 16:00 PRACTICAL 2: Two-sample MR (data harmonisation and analysis) – Carolina Borges & Deborah Lawlor
- 16:00 – 16:30 Coffee
- 16:30 – 17:00 LECTURE 4: MR-Base platform introduction – Carolina Borges
- 17:00 – 18:00 PRACTICAL 3: Two-sample MR using the MR-Base platform - Carolina Borges & Deborah Lawlor
- 18:00 – 18:30 Group work\* - All

**THURSDAY 5 JULY 2018**

- 14:00 – 14:30 Recap of Day 3 – Carolina Borges
- 14:30 – 16:00 Negative control studies and within sibship analyses – Deborah Lawlor
- 16:00 – 16:30 Coffee
- 16:30 – 17:30 Cross-context comparisons and Triangulation – Carolina Borges
- 17:30 – 18:30 Group presentations\* & Thanks - All

*\*At the end of days 1 to 3 there will be (at least) 30 minutes for you to work in groups of 4-6. The aim of this group work is for you to design an MR study and then present that on Day 4*

**WEEK 3: 2-6 July 2018**

Parallel morning and afternoon modules

**ENVIRONMENTAL EPIDEMIOLOGY**

**Josep M. Antó and Jordi Sunyer**

**MONDAY, JULY 2**

- 14:30-16:30 *Session 1: Environmental Epidemiology: from the burden of health to the health of the Planet (JM Antó)*
- 17:00-18:30 *Case study 1: Environmental risk factors in the Global Burden Disease Assessment (JM Antó, J Sunyer)*

**TUESDAY, JULY 3**

- 14:30-15:30 *Session 2: Exposome (J Sunyer)*
- 15:30-16:30 *Session 3: Designs for studying short-term effects (J Sunyer)*
- 17:00-18:30 *Case study 2: Temperature and mortality (J Sunyer, JM Antó)*

**WEDNESDAY, JULY 4**

- 14:30-15:30 *Session 4: The developmental origins of health and disease (J Sunyer)*
- 15:30-16:30 *Session 5: Urban built environment (J Sunyer)*
- 17:00-18:30 *Case study 3: Air pollution is a major threat for health: The BREATHE study (J Sunyer, JM Antó)*

**THURSDAY, JULY 5**

- 14:30-16:30 *Session 6: Risk and impact assessment of isolated and systemic risks (JM Antó)*
- 17:00-18:30 *Case study 4: The IARC risk assessment approach of carcinogenic hazards (JM Antó, J Sunyer)*



**WEEK 3: 2-6 July 2018**

Parallel morning and afternoon modules

**CONCEPTS AND METHODS IN CAUSAL MEDIATION ANALYSIS**

**Bianca DeStavola**

**MONDAY 2 JULY 2018**

14:30-18:30 Motivation and traditional mediation analysis (with computer practical)

**TUESDAY 3 JULY 2018**

14:30-18:30 Causal language and counterfactual-based mediation analysis (with computer practical)

**WEDNESDAY 4 JULY 2018**

14:30-18:30 Dealing with multiple mediators (with computer practical in Stata)

**THURSDAY 5 JULY 2018**

14:30-18:30 Further issues and discussion (with computer practical in Stata)

**WEEK 3: 2-6 July 2018**

Parallel morning and afternoon modules

**Friday plenary session: 6 July, 09:30 – 11:30**

09:30 – 12:30 **Rodolfo Saracci Lecture and Closing Symposium**

9.30 - 9.45 Introductions

9.45 - 10.45 Olof Akre – The Saracci Lecture

10.45 - 11.15 Coffee break

11.15 - 11.45 Jorn Olsen – Fetal programming: new evidence

11.45 - 12.00 Rodolfo Saracci – Closing remarks

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12:30 – 13:00 **Lorenzo Richiardi, Neil Pearce and Rodolfo Saracci**  
Certificates of attendance and goodbyes😊

**End of EEPE 2018 Course**



# **European Educational Programme in Epidemiology**

**FACULTY MEMBERS**

## Faculty Members

### **Olof Akre**

Dept. of Molecular Medicine & Surgery  
Karolinska Institutet  
Solna, D1:01  
171 76 Stockholm  
Sweden  
E-mail: [Olof.Akre@ki.se](mailto:Olof.Akre@ki.se)

### **Per Kragh Andersen**

Dept. of Biostatistics  
University of Copenhagen  
Øster Farimagsgade 5, entr.B  
P.O. Box 2099  
1014 Copenhagen K  
Denmark  
E-mail: [pkam@sund.ku.dk](mailto:pkam@sund.ku.dk)

### **Josep M Antó**

Barcelona Institute for Global Health  
ISGlobal – Campus Mar  
Doctor Aiguader 88  
08003 Barcelona  
Spain  
E-mail: [josepm.anto@isglobal.org](mailto:josepm.anto@isglobal.org)

### **Cono Ariti**

London School of Hygiene &  
Tropical Medicine  
Keppel Street  
London WC1E 7HT  
United Kingdom  
E-mail: [cono.ariti@lshtm.ac.uk](mailto:cono.ariti@lshtm.ac.uk)

### **Michela Baccini**

Università degli Studi di Firenze  
Dipartimento di Statistica, Informatica,  
Applicazioni 'Giuseppe Parenti'  
Viale Morgagni, 59  
50134 Firenze  
Italy  
E-mail: [baccini@disia.unifi.it](mailto:baccini@disia.unifi.it)

### **Carolina Borges**

University of Bristol  
School of Social and Community Medicine  
Oakfield House  
Oakfield Grove  
Clifton BS8 2BN  
United Kingdom  
E-mail: [m.c.borges@bristol.ac.uk](mailto:m.c.borges@bristol.ac.uk)

### **Simon Cousens**

London School of Hygiene &  
Tropical Medicine  
Keppel Street  
London WC1E 7HT  
United Kingdom  
E-mail: [simon.cousens@lshtm.ac.uk](mailto:simon.cousens@lshtm.ac.uk)

### **Stefania Curti**

University of Bologna  
Dipartimento di Scienze Mediche e  
Chirurgiche  
Via Giuseppe Massarenti, 9  
40138 Bologna  
Italy  
E-mail: [stefania.curti@unibo.it](mailto:stefania.curti@unibo.it)

### **Bianca DeStavola**

University College London  
Institute of Child Health  
Great Ormond Street  
London WC1N 1EH  
United Kingdom  
E-mail: [bianca.destavola@lshtm.ac.uk](mailto:bianca.destavola@lshtm.ac.uk)

### **David M Evans**

University of Queensland  
Brisbane St Lucia, QLD 4072  
Australia  
E-mail: [d.evans1@uq.edu.au](mailto:d.evans1@uq.edu.au)

### **Thomas Fürst**

Swiss Tropical and Public Health Institute  
Socinstrasse 57  
4002 Basel  
Switzerland  
E-mail: [thomas.fuerst@swisstph.ch](mailto:thomas.fuerst@swisstph.ch)

### **Gibran Hemani**

University of Bristol  
Senate House  
Tyndall Avenue  
Bristol, BS8 1TH  
United Kingdom  
E-mail: [g.hemani@bristol.ac.uk](mailto:g.hemani@bristol.ac.uk)

## Faculty Members

### **Nino Künzli**

Swiss Tropical and Public Health Institute  
Socinstrasse 57  
4002 Basel  
Switzerland  
E-mail: [nino.kuenzli@swisstph.ch](mailto:nino.kuenzli@swisstph.ch)

### **Corrado Lagazio**

Dept. of Economics  
University of Genova  
Via Vivaldi 5  
16126 Genova  
Italy  
E-mail: [corrado.lagazio@unige.it](mailto:corrado.lagazio@unige.it)

### **Debbie Lawlor**

MRC Integrative Epidemiology Unit at the  
University of Bristol  
School of Social and Community Medicine  
Oakfield House, Oakfield Road, Bristol,  
BS8 2BN  
United Kingdom  
E-mail: [d.a.lawlor@bristol.ac.uk](mailto:d.a.lawlor@bristol.ac.uk)

### **Milena Maule**

Unit of Cancer Epidemiology  
Dept. of Medical Sciences  
University of Turin  
Via Santena 7  
10126 Turin  
Italy  
E-mail: [milena.maule@unito.it](mailto:milena.maule@unito.it)

### **Franco Merletti**

Unit of Cancer Epidemiology  
Dept. of Medical Sciences  
University of Turin  
Via Santena 7  
10126 Turin  
Italy  
E-mail: [franco.merletti@unito.it](mailto:franco.merletti@unito.it)

### **Anne-Marie Nybo Andersen**

Section of Social Medicine  
Department of Public Health  
University of Copenhagen  
Gothersgade 160  
1123 København K  
Denmark  
E-mail: [amny@sund.ku.dk](mailto:amny@sund.ku.dk)

### **Neil Pearce**

**(Director of the course)**  
Dept. of Medical Statistics  
London School of Hygiene &  
Tropical Medicine  
Keppel Street  
London WC1E 7HT  
United Kingdom  
E-mail: [Neil.Pearce@lshtm.ac.uk](mailto:Neil.Pearce@lshtm.ac.uk)

### **Irene Petersen**

Dept. Primary Care and Population Health  
UCL (Royal Free Campus)  
Rowland Hill Street  
London NW3 2PF  
United Kingdom  
E-mail: [i.petersen@ucl.ac.uk](mailto:i.petersen@ucl.ac.uk)

### **Emanuele Pivetta**

Dept. of Medical Sciences  
University of Turin  
Via Santena 7  
10164 Turin  
Italy  
E-mail: [emanuele.pivetta@unito.it](mailto:emanuele.pivetta@unito.it)

### **Costanza Pizzi**

Unit of Cancer Epidemiology  
Dept. of Medical Sciences, University of  
Turin  
Via Santena 7, 10126 Turin  
Italy  
E-mail: [costanza.pizzi@unito.it](mailto:costanza.pizzi@unito.it)

### **Lorenzo Richiardi**

**(Director of the course)**  
Unit of Cancer Epidemiology  
Dept. of Medical Sciences  
University of Turin  
Via Santena 7  
10126 Turin  
Italy  
E-mail: [lorenzo.richiardi@unito.it](mailto:lorenzo.richiardi@unito.it)

### **Rodolfo Saracci**

Senior Visiting Scientist  
International Agency for Research on  
Cancer (IARC)  
150 Cours Albert Thomas  
66372 Lyon CEDEX 08  
France  
E-mail: [saracci@hotmail.com](mailto:saracci@hotmail.com)

## Faculty Members

### **Jordi Sunyer**

Barcelona Institute for Global Health  
ISGlobal - Campus Mar  
Doctor Aiguader 88  
08003 Barcelona  
Spain  
E-mail: [jordi.sunyer@isglobal.org](mailto:jordi.sunyer@isglobal.org)

### **Kate Tilling**

School of Social and Community Medicine  
University of Bristol  
Canyng Hall  
39 Whatley Road  
Bristol BS8 2PS  
United Kingdom  
E-mail: [kate.tilling@bristol.ac.uk](mailto:kate.tilling@bristol.ac.uk)

### **Aurelio Tobias**

Spanish Council for Scientific Research  
(CSIC)  
Jordi Girona, 18-26  
08034 Barcelona  
Spain  
E-mail: [aurelio.tobias@idaea.csic.es](mailto:aurelio.tobias@idaea.csic.es)

### **Secretariat**

#### **Mar Ferrer**

Barcelona Institute for Global Health  
ISGlobal  
Campus Mar  
Doctor Aiguader 88  
08003 Barcelona  
Spain  
E-mail: [eepe@eepe.org](mailto:eepe@eepe.org)

### **Jan P. Vandenbroucke**

Department of Clinical Epidemiology  
Leiden University Hospital  
Bldg 1, PO Box 9600  
2300 RC Leiden  
The Netherlands  
And Department of Clinical Epidemiology  
Aarhus University  
Denmark  
E-mail: [J.P.Vandenbroucke@lumc.nl](mailto:J.P.Vandenbroucke@lumc.nl)

### **Daniela Zugna**

Unit of Cancer Epidemiology  
Dept. of Medical Sciences  
University of Turin  
Via Santena 7  
10126 Turin  
Italy  
E-mail: [daniela.zugna@unito.it](mailto:daniela.zugna@unito.it)