**Main Degree or Qualification, Diploma and Certificated held**

Degree or Diploma:_____

_____

_____

**Most recent employment**

Employer:_____

_____

Position held:_____

_____

_____

**How and where did you hear about this course?**

_____

_____

_____

**Intended source**

Self Financing □ Sponsor □

Signed:_____

Date:_____

**Contact Addresses**

If you need further details on the course please contact:

Emanuela Ciliberto, Unit of Cancer Epidemiology, Department of Medical Sciences, University of Turin, Via Santena, 7 – 10126 Torino
Phone +39 011 6334661
emanuela.ciliberto@unito.it

**Scientific Coordinators:**
**Rino Bellocco, Sc.D**
(University of Milano-Bicocca , Karolinska Institutet)
**Lorenzo Richiardi, Ph.D**
(University of Turin)

Course homepage: http://www.causal.altervista.org

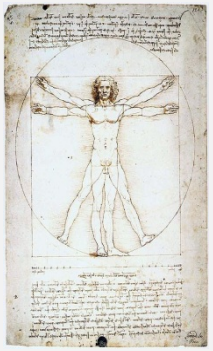
**Location: Department of Statistics and Quantitative Methods, University of Milano-Bicocca, Milano.**

**Promotion**

The course is promoted by the Italian Society of Medical Statistics and Clinical Epidemiology (SISMEC) together with the Department of Statistics and Quantitative Methods, University of Milano-Bicocca and the Department of Medical Sciences, University of Turin

SISMEC Working Group on

# Causal Inference



## A short course on concepts and methods in Causal Inference

## VI Edition

Milan (Italy), 16-18 April 2018

**Faculty:**

| | |
|---|---|
| Rino Bellocco | University of Milano-Bicocca |
| Francesca Ghilotti | Karolinska Institutet |
| Costanta Pizzi | University of Turin |
| Lorenzo Richiardi | |
| Daniela Zugna | |
| Laura Pazzagli | Karolinska Institutet |

sismec
Società Italiana di Statistica Medica ed Epidemiologia Clinica

## GOALS AND RATIONALE

Causal inferences play a predominant role in science. In epidemiology, the goal and the ambition of the most part of the researchers is to determine an unbiased estimate of the effect of being exposed to a given risk factor on a well defined outcome (disease, death). In recent years, there have been important statistical developments that go beyond the traditional multivariable regression techniques.
Aims of this course are to discuss the current state of the art with respect to these issues, while retaining a practical focus and to assess our current and future abilities to address effectively cause-and-effect questions.

## COURSE DESCRIPTION

**16 April 2018 – 9:00/18:00**
A definition of causal effects: basic concepts in epidemiology seen through causal inference and causal diagrams. Estimation of causal effects through standardization.

**17 April 2018 – 9:00/17:30**
Causal estimation methods: Introduction to marginal structural models for fixed and time-varying confounders.
**18 April 2018 – 9:00/18:00**
Mediation analysis. Interaction and effect Modification.

Teaching will be based on both formal lectures and computer/group sessions.

**Teachers:**
Rino Bellocco (University of Milano-Bicocca, Karolinska Institutet)
Francesca Ghilotti (Karolinska Institutet, University of Milano-Bicocca)
Costanta Pizzi (University of Turin)
Lorenzo Richiardi (University of Turin)
Daniela Zugna (University of Turin)
Laura Pazzagli (Karolinska Institutet)

## WHO SHOULD APPLY?

Epidemiologists and statisticians with interest in epidemiology, or researchers with similar background. The course is thought at an introduction/intermediate level.

## COURSE FEE AND APPLICATION

The total course fee is 250 €. Upon acceptance, payment details will be provided. The number of participants is limited to 25. SISMEC members will have a flat discount rate of 150 €.

Applicants should complete the attached form and return it as soon as possible to:

Emanuela Ciliberto, Unit of Cancer Epidemiology, Department of Medical Sciences, University of Turin
Via Santena, 7 – 10126 Torino
Phone +39 011 6334661
emanuela.ciliberto@unito.it

**Payment details will be provided as soon as possible after the completion of the application form.**

## APPLICATION FORM

**A short course on concepts and methods in Causal Inference.**

**Milan (Italy) 16 – 18 April 2018.**

Emanuela Ciliberto emanuela.ciliberto@unito.it

**Please use block capitals**

Surname:_____

Forename(s):_____

Title: _____ Male □ Female □

Accredited student or post-doc □

Date of Birth:_____

Nationality: _____

Country of Residence:_____

Address for correspondence:_____

_____

_____

Postcode:_____

Daytime Telephone No:_____

Mobile No:_____

E-mail address:_____

_____

SISMEC Member □