

# Spatial Analysis in Epidemiology

June 20, 21 and 22, 2011  
9:30 to 17:00

Torino University and ISI Foundation  
Villa Gualino, Torino, Italy

**Course** for the Ineq-Cities project on Socio-economic inequalities in mortality: evidence and policies in cities of Europe.

**Course** for EPIWORK project on developing the framework for an epidemic forecast infrastructure

**Module** of the Master in Epidemiology of Torino University

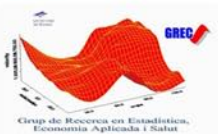


**Course Directors:**

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(CIBERESP)

**A.S.L. T03**  
Azienda Sanitaria Locale  
di Collegno e Pinerolo



**EPIWORK**



**ineqcities**

**ciberesp**

Centro de Investigación Biomédica en Red  
Epidemiología y Salud Pública

**CSB** Consorci Sanitari  
de Barcelona

**Agència  
de Salut Pública**

## Course contents

### Course contents

Introduction to Spatial Analysis

Disease Mapping

Introduction to Bayesian Inference

Bayesian approaches to modelling area and point pattern data

Ecological Regression Studies

Multilevel model and contextual effects

There will be a tutorials session at the end of each day

## Software

### Software

R 2.10 or an updated version please download from: <http://cran.r-project.org/>

INLA: <http://www.r-inla.org/>

WinBUGS 1.4.3: <http://www.mrcbsu.cam.ac.uk/bugs/winbugs/contents.shtml>

## Requisites

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The intended audience of the course are epidemiologists, biostatisticians, people who work in public health and master students in these fields. Prerequisites are knowledge of statistics up to a basic understanding of regression models and of any statistical software, preferably R and participants will be selected according to pre-requisites. INEQ-Cities and EPIWORK participants are exempt from these pre-requisites.

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## Course fees

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The reported fee for the course is 600€ which includes accommodation, meals and course materials. INEQ-Cities participants will pay a fee of 300€.

## Application procedure

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Please send your application and CV to: [gina.dapa@epi.piemonte.it](mailto:gina.dapa@epi.piemonte.it) by March 31st, 2011. INEQ-Cities participants will send an e-mail with name, institution and background, a CV will not be necessary. We will confirm participation and communicate, by e-mail, the necessary information to participants in order to proceed with payments to the competent agency.

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