



## Design, analysis and reporting of cluster randomised trials – CLUSTER

June 14<sup>th</sup> to June 15<sup>th</sup> 2022 (12 hours)

**Location :** Carreire campus-University of Bordeaux

### Training fees\* :

**Individual participation:** €300

**Institutional participation :** €600

### Coordinator :

- Laurent Billot (Coordinator)
- Bruno Giraudeau (Coordinator)

\*Submitted to the vote of University authorities.

## Objectives

- › To learn about the different cluster trial designs including their strengths and weaknesses as well as ethical and logistical implications. To understand how to perform sample size calculations as well as how to plan and conduct the analysis while taking the design into account.

## Module Program

- › Day 1: Design of cluster trials
  - Overview of cluster trials (parallel, stepped-wedge and crossover) with their strengths and weaknesses
  - Ethical and logistical considerations
  - How to choose the best design and perform sample size calculations

*Practical session 1: choose the best design to answer a specific research question. Perform the relevant sample size calculation(s).*
- › Day 2: Analysis and reporting of cluster trials
  - Analytical aspects of each design and special consideration (e.g. small number of clusters)
  - Reporting considerations

*Practical session 2: critical appraisal of publications reporting the results of cluster trials*

## Requirements

Good understanding of principles of clinical trials. Introductory biostatistics level. No prior statistical coding experience will be required.