UNIVERSITÀ
DEGLI STUDI DI MILANO-BICOCCA

COURSE SYLLABUS

Meta-Analyses In Neurosciences: An Introduction

2627-122R-02

Aims

Understanding key principles and main methods for meta-analysis.

Contents

The course will describe the main methodological approaches to conducting meta-analyses in accordance with the PRISMA (Preferred Reporting Items for Systematic Reviews and Meta-Analyses) and MOOSE (Meta-analysis of Observational Studies in Epidemiology) reporting guidelines.

Detailed program

The course will cover the following topics:

- Introduction to epidemiology for neuroscience
- Literature search strategies and data extraction
- Effect size measures for evidence synthesis in meta-analysis
- Fixed-effect and random-effects models
- Assessing and addressing heterogeneity
- Publication bias and related issues
- Risk of bias and quality assessment
- Overview of statistical software for meta-analysis

Prerequisites

The course is intended for PhD students in Neuroscience.

Teaching form

Lectures and practical exercises.

Textbook and teaching resource

During the course, the instructors will provide recommended readings and bibliographic references.

Semester

2nd: May-June

Assessment method

Attendance of at least 75% of the scheduled course hours and active participation in discussions on the topics covered.

Office hours

By appointment, upon prior contact by email.

Sustainable Development Goals

GOOD HEALTH AND WELL-BEING | QUALITY EDUCATION