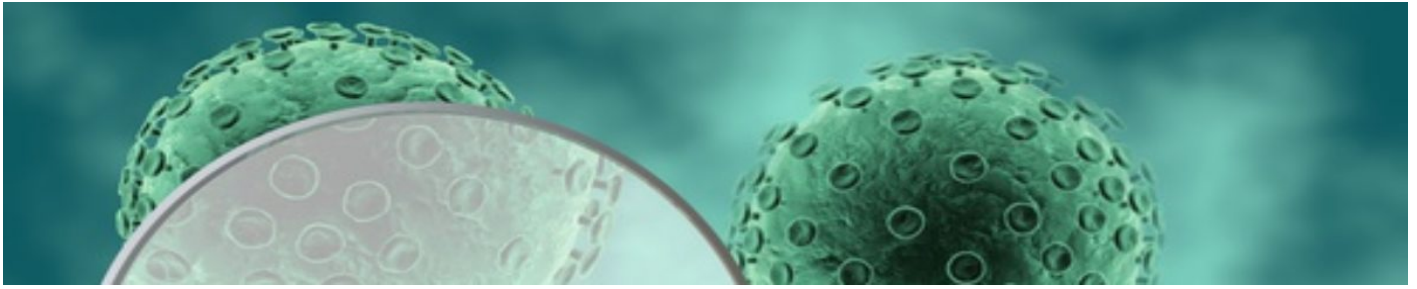


# CAS in Clinical Research



## Introduction to the Statistical Software R

### Description

This is a one-day introduction course in the R programming language. R is a freely available programming language which is widely used for data analysis. Attending the course requires no prior experience in R. Participants will learn how to use R for performing statistical analyses in the context of life sciences. We will start by describing very simple functionalities and we will then use real datasets in order to explore visualization techniques, perform statistical tests and fit simple regression models. In this course we will utilize R-studio, a freely available environment that greatly facilitates the use of R. We will also show how to use R markdown to easily create reports from data analyses.

### Objectives

- To familiarize with the R-studio environment
- To learn basic functionalities such as downloading libraries, open and use R scripts
- To understand the basics of R programming language
- To run commands in order to perform descriptive statistics, statistical tests and simple regression models

### Date

**26 May 2022**

### Equipment

Participants should bring their own computers (for which they have administrative right) with the latest R and R-studio already installed

### Course Structure

The course consists of short lectures and several practicals

### Assessment

None

### Credits

None

### Facilitators

Prof. Georgia Salanti, Institute of Social and Preventive Medicine (ISPM) Bern

Dr. Orestis Efthimiou, PD, Institute of Social and Preventive Medicine (ISPM) Bern

### Location

University of Bern, Mittelstrasse 43, Room: tba

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