
***Pre IBIG Forum Course – 9 October 2019,
University of Milan-Bicocca***

*Laboratorio 715, 1° Piano, Edificio U7, Via Bicocca degli Arcimboldi 8,
Milano*

***Simulation methods to estimate power and sample size
in trial designs, with SAS***

Instructors: Vincenzo Bagnardi (University of Milan-Bicocca), Valentino Conti (GSK Vaccine Institute for Global Health)

Course description (h. 9.00 – 18.00):

1. Basic concepts for power analysis and sample size calculation in clinical trials
2. Simulation studies using SAS
3. Power analysis and sample size by simulation: continuous, binary, and time-to-event outcomes for superiority and non-inferiority trials
4. Power analysis and sample size by simulation: how to handle multiple endpoints, subgroup analyses, and interaction between factors

This course will mostly use SAS for empirical examples and exercises.

Pre-requisite: knowledge of base SAS data step programming and key PROCs for the analysis of continuous, binary and time-to-event data.