



# Workshop on Biostatistical Computing with R

(15 - 20 May, 2017)



*Organised By*  
**Department of Biotatistics  
and Health Informatics**  
**Sanjay Gandhi Postgraduate Institute of  
Medical Sciences, Lucknow - 226014, India**

## Overview

A theoretical work is usually inspired by applied problems, and this interweaving of theory and application has put statistics in a special place in the scientific world. The theoretical aspects of statistics are intriguing, interesting and its intimate relationship with other fields. This workshop will discuss common statistical analysis methods through a series of examples using R and R-Commander as computational tools. The workshop is intended for a wide range of scholars from **medicine, biology, economics, and social sciences**, requiring strong analytical skill and application of statistical methods in their research.

Learning a new topic becomes easier if it is motivated by interesting and engaging applied problems. This workshop is designed to help scholars to improve their critical thinking and problem solving skills with an emphasis on active interactive participation through lab sessions running along with theory sessions. In this era various statistical software are easily available and consequently misuse of statistics also spread among its user. Lack in proper training is the fundamental cause. The workshop aims **to expose the participants towards simple and exhaustive ways of data analysis through interactive and practice based sessions along with theoretical learning**. Another aim of this workshop is to **introduce to R and R Commander as a tool in statistical computing and data analysis**. A step-by-step approach of using the various statistical procedures of data analysis would be covered.

## The Host Institute

Sanjay Gandhi Postgraduate Institute of Medical Sciences (SGPGIMS), Lucknow, India is a university established under state act 1983, and is rated amongst the top medical institutions in the country. It is delivering state of art tertiary medical care, super speciality education and research. in six centres and about 30 academic departments. The institute offers DM, MCh, MD PhD programs and Post-doctoral Certificate Courses in most discipline. The Department of Biostatistics and Health Informatics develops and applies statistical methods to the design and analysis of studies in clinical medicine, public health and biomedical research. The department imparts training in biostatistics, conduct fellowship and Ph. D programme in biostatistics. The department is also recognised as major

centre for patient care automation and has a state of art data centre having 20 servers with more than 60 TB storage and about 1500 nodes spread over the campus.

## Objective

1. A simple and exhaustive way of data analysis through interactive and practice based sessions along with theoretical learning.
2. To provide a 'hands-on' experience of the statistical models and tools. Each topic will be motivated with a relevant problem from real world.
3. Statistical theory and formulas will be explained in clear language and simple to participants without mathematical complexities.

## Course Contents

Exploration of Data, Probability and Probability Distribution, Estimation and Testing of Hypothesis, Regression Analysis, Analysis of Variance, Getting Acquainted with Statistical Analysis Software R commander.

## Who Should Participate?

The course target young biostatisticians, public health experts, medical professionals, health economist, social scientist and early carrier biomedical researcher. Applicant should be proficient in English have some basic concepts of Statistics and Computing.

# Resource Faculty



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# Registration

The Registration fees covers workshop kit and mid session tea.

Category	Amount INR
Before 05 <sup>th</sup> May 2017	1500
After 05 <sup>th</sup> May 2017	2000
On Spot	3000

## How to Apply?

Interested participants may download the registration form from institute website <http://www.sgpgi.ac.in>. Completed registration form should be send to email [sgpgibiostat@gmail.com](mailto:sgpgibiostat@gmail.com) before **25 April, 2017**. Short-listed candidates will be informed for submission of registration fee etc.

## Accommodation

Candidates will have to arrange their own fooding and lodging. However a limited accommodation is available at the Institute guest house on twin sharing basis. Room Tariff is Rs 500/ night. Outstation participants may write separately for accommodation along with registration form.

## Organising Secretary

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