



**Vilnius
University**



**BIOINFORMATICS LABORATORY
DATA ANALYTICS RESEARCH CENTER**

Short Course on Biostatistics for (big) data analysis using R

Prof. Audrone Jakaitiene, PhD

**Bioinformatics and Biostatistics center at Human and Medical Genetics Department,
Medical Faculty, Vilnius university**

Short Course for PhD and Master students:

Dottorati di Ricerca di Area Medica - Corso di Laurea Magistrale in Ingegneria Biomedica

22 May 2018 – h. 15.00-17.00

23 May 2018 – h. 15.00-17.00

24 May 2018 – h. 10.00-12.00

Lecture Hall "Aula Informatica" (Bldg. G , Level 0)

Medical research projects that involve any aspect of the collection, summarization, analysis and/or interpretation of both clinical quantitative and qualitative information require statistical support. In the course, we will review the current situation of biostatistics, considering the statistical methods traditionally used in biomedical research, as well as the ongoing development of new methods in response to the new problems arising in medicine. We will perform statistical analysis in R environment, using GUI Rcmdr with ROC and survival plugins as well as script mode.

SHORT BIO

Audrone Jakaitiene is professor and senior researcher at Vilnius university. She defended her PhD thesis in physical sciences (Informatics 09P) in 2001. Title of the thesis "The Algorithms of Competing Risk Regression Models", in which competing risks were forecasted using regression models and neural networks. Later A. Jakaitiene worked in Lithuanian and EU institutions developing her modelling skills in social, physical and biomedical sciences. As of 2005, her research paper topics could be split in three fields: 1. modeling and forecasting of Lithuanian, European Union and global economic indicators; 2. analysis of biomedical data, with special interest to modeling of large-scale genetic data; 3. educational data research covering international databases and an integrated analysis of Lithuanian data. In 2005-2016, she published 40 scientific papers (15 in Clarivate Analytics Web Of Science, H-index 4), participated in more than 30 conferences. From 2011 she is head of Bioinformatics and Biostatistics center at Human and Medical Genetics Department, Medical Faculty, Vilnius university.