

## **Title of the workshops: Introduction to R for bioanalysis**

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R is an open-source language and environment for statistical computing and graphics that has gained widespread acceptance in many branches such as biology, biotechnology, chemistry, and bioinformatics, becoming an almost indispensable tool.

During the workshop, participants will learn about R, RStudio, data processing, and visualisation, as well as data analysis in R.

The workshop will be divided into three parts:

- ✓ Introduction to R (assignment operator, functions, objects, classes, data types, how to get help, and how to work with RStudio)
- ✓ Introduction to data visualisation (how to create and modify plots with ggplot2 package)
- ✓ Introduction to data analysis (how to describe data set through statistical parameters, exploratory data analysis, cluster analysis, PCA)

### **Important information about the workshops**

**Date:** 24<sup>th</sup> September 2019

**Time :** 9.00 – 12.00

**Location:** Hotel Mercure Gdańsk Stare Miasto, Jana Heveliusza 22 Str.

**Maximum number of participants:** 40 (divided into two parallel groups)

**Cost:** free

Each participant is kindly asked to bring portable computer for the workshops.

**Please note that due to the limited number of spots, the order of registration to the course decides about the participation.**