Basic statistics with R

Objective
To familiarize participants with the foundations of practical biostatistics.

Description
The online course addresses the following topics:

- Sampling theory: Obtaining information about a population via sampling
  Sample characteristics (location, dispersion, skewness), estimation of the
  mean, standard error of the mean
- Discrete and continuous probability distributions: Central limit theorem
- Hypothesis testing: Basic principles, one- and two-sided testing, types of
  errors, power calculations
- "Cookbook of tests": Location testing, normality, variance comparisons,
  counting statistics, contingency tables, regression tests

Methodology
Instructor-led lectures plus hands-on exercises using the R programming language
(accessed via a dedicated web server).

Conditions
Basic familiarity with the R programming language is required.
In particular, the following skills are necessary:

- Using the R interpreter, either the command-line program or in R Studio
  https://rstudio.com/
- How to invoke R functions, pass optional/named parameters
- Some familiarity with simple plotting commands

Organizational Information

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<thead>
<tr>
<th>Language</th>
<th>English</th>
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<tbody>
<tr>
<td>Target group</td>
<td>Doctoral Candidates at all stages and Postdocs from all faculties</td>
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<tr>
<td>Date</td>
<td>Tuesday-Wednesday, 2-3 November 2021, 9:00 – 13:00</td>
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<tr>
<td>Registration</td>
<td>For registration click here</td>
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