Instructor: Dr. Florian Battke, Dr. Battke SCIENTIA, Life Science Services
Date: November 2-4, 2020
Time : 9:00-14:30 h
Location: ONLINE course
Please register with the school management.
COURSE OUTLINE
Introduction of basic statistical principles
 □ Basic concepts of statistical data analysis □ General descriptive statistics
Statistical methods
 Background and requirements of statistical methods: Distributions and test statistics Confidence intervals General method of hypothesis testing
Applying statistical methods:Basics of hypothesis testing

- Tests on outliers, Gaussian distribution and homogeneity of variance
- Parametric and non-parametric hypothesis testing
- Critical interpretation of test results
- Analysis of variance (one way ANOVA)
- Kruskal-Wallis / Friedmann test
- Post-hoc tests
- Two/three way ANOVA
- Correlation and regression analysis
- Linear and nonlinear regression
- Curve fitting and weighting
- Calibration curves
- Comparison of regression models

plus exercises