REN^{PRO} Method Course: Data evaluation – advanced course: regression methods
(Prof. Dr. Iris Heid, Prof. Dr. Klaus Stark)

Date: 2 days; May, 7 – 8, 2025

Place: Universitätsklinikum Regensburg, Franz-Josef-Strauss Allee 11, 93053 Regensburg CIP-Pool 1/UKR (A2 4.01)

Target group: PhD students of the TRR 374,
open for medical doctoral students, PostDocs and Clinician Scientists in the TRR 374, and for interested doctoral students (via the graduate schools)

Requirements: **Basic knowledge on data analysis**, e.g**.** "Blockkurs Statistik Grundlagen" **or comparable courses** acquired in the course of basic studies.

Credit Points: Full participation can be counted as a method course with 0.6 CPs within the Curriculum of the Graduate Schools (RIGel, BioMediGS, life@FAU)

Maximum number of participants: 20

Registration: by March 30, 2025

via the following link (password-protected form):
https://terminplaner6.dfn.de/b/e719257efa91ab02b13331cdba68068f-1016963

Non-TRR-members (doctoral students from the graduate schools) please register informally by email to: michaela.kritzenberger@ur.de

Please note: Course places will be given preferentially to TRR members. You will be informed of your course participation shortly after the registration deadline.

Contact: michaela.kritzenberger@ur.de

Contents & Schedule:

DAY 1 – May 7, 2025		
09:00 – 11:00h	Lecture: Linear Regression – Introduction, estimating and testing of regression parameter, prediction, variable coding, assumptions, interaction	Iris Heid
10:45 – 12:15h	Practical course: Basics in biostatistics, linear Regression and variable coding with SPSS	Klaus Stark
12:15 – 13:30h	Lunch and Discussion	
13:30 – 15:00	Lecture: Linear Regression continued – Multiple Testing, model accuracy, overall test, ANOVA as an extension of T-Test, ANOVA as a regression model, Kruskal-Wallis test	Iris Heid
15:15 – 18:00h	Practical course: Multiple linear Regression, ANOVA and Kruskal-Wallis test with SPSS	Klaus Stark

Day 2 – May 8, 2025		
09:00 – 11:00h	Lecture: Logistic regression and model building – Odds Ratio and logistic regression, variable selection and model building	Iris Heid
10:45 – 12:15h	Practical course: Logistic Regression with SPSS	Klaus Stark
12:15 – 13:30h	Lunch and Discussion	
13:30 – 15:00	Lecture: Cox-Regression - Survival time data, Kaplan-Meier curve, Hazard Ratio, Cox regression	Iris Heid
15:15 – 18:00h	Practical course: Survival time analysis with SPSS	Klaus Stark