

Medical Research Academy Graz

Core Facility Computational Bioanalytics Statistical data analysis with SPSS for Life Science Researchers: Analysis of Variance and Regression analysis

This course is an introduction to statistical methods and statistical software in the field of Analysis of Variance and Regression analysis. On the basis of various practical examples, the participants learn to analyse and visualize data and how to interpret results. A main goal is to show participants the importance of quality control, assessing assumptions and ensuring adequate sample size. Upon successful completion of this course, participants will be familiar with the statistical methods covered in this two days and will be able to interpret statistical results. The participants will have the ability to choose the suitable statistical analysis method for different data sets.

Analysis of Variance (Day 1) : one-way ANOVA, factorial ANOVA, repeated measures ANOVA, MANOVA, ANCOVA, scientific presentation of results Regression analysis (Day 2) : Pearson, Spearman, Partial correlations, simple linear regression, multiple linear regression, binary logistic regression, scientific presentation of results

Teaching and learning method: 20% lecture and 80% interactive

Languages of instruction: English or German

Target audience: PhD students, technicians and researchers

Entrance qualifications: SPSS basics course

Costs: 150 Euro (University)/ 300 Euro (Company) per day; Each day can be booked separately

DFP: 7 points per day, 14 points for two days

Registration: Website Medical Research Academy | (medunigraz.at)

Lecturer: Katharina Eberhard, BA MA, Andrea Groselj-Strele, PhD

As the number of participants is limited (min. 3 and max. 8), please register early to confirm your seat!

November 23rd 2021 (9am-4pm) November 24th 2021 (9am-4pm) *Location: SR EG-086/087* Contact: <u>zmf-sekretariat@medunigraz.at</u> Phone: +43 (0)316 385-73001 Center for Medical Research Address:Stiftingtalstrasse 24 A-8010 Graz <u>https://zmf.medunigraz.at</u>