

MONDAY	Half-day course	Full-day course	Full-day course
9:00-10:30	Bayesian borrowing in clinical trials: design choices, assessment of operating characteristics and reporting Annette Kopp-Schneider, Silvia Calderazzo	An introduction to Bayesian non-parametrics for causal inference Michael Daniels, Jason Roy	A practical introduction to simulating complex trial designs Thomas Jaki, Dominique-Laurent Couturier, Pavel Mozgunov
10:30-11:00	Coffee break	Coffee break	Coffee break
11:00-12:30	Bayesian borrowing in clinical trials: design choices, assessment of operating characteristics and reporting Annette Kopp-Schneider, Silvia Calderazzo	An introduction to Bayesian non-parametrics for causal inference Michael Daniels, Jason Roy	A practical introduction to simulating complex trial designs Thomas Jaki, Dominique-Laurent Couturier, Pavel Mozgunov
12:30-14:00	LUNCH	LUNCH	LUNCH
14:00-15:30		An introduction to Bayesian non-parametrics for causal inference Michael Daniels, Jason Roy	A practical introduction to simulating complex trial designs Thomas Jaki, Dominique-Laurent Couturier, Pavel Mozgunov
15:30-16:00		Coffee break	Coffee break
16:00-17:30		An introduction to Bayesian non-parametrics for causal inference Michael Daniels, Jason Roy	A practical introduction to simulating complex trial designs Thomas Jaki, Dominique-Laurent Couturier, Pavel Mozgunov

TUESDAY 8:30-9:00	Opening ceremony											
Early morning plenary: 9:00-10:00	Keynote Simulation studies: bringing method to the madness		Tim Morris									
Coffe break: 10:00-10:45	Poster session											
Late morning parallel: 10:45-12:15	IS1: Past and Future of Bayesian Biostatistics		TC1: 50th anniversary of the closed testing procedure		Censored data 1		High dimensional data 1		Statistical hypothesis testing 1		Other 2	
	Bayesian Highs and Lows: A Pharma Industry Perspective	Simon Wandel	The invention of the closed testing procedure and early developments	Markus Neuhäuser	Overview of methods for planning studies with multiple time to event endpoints	Ann-kathrin Ozga	Unraveling Aging in the CSF Proteome: A Systematic Comparison of Variable-Selection Methods for Protein Risk Score Modeling	Sathish Kabatkar Ravindranth	Bootstrap calibration: A flexible tool to obtain (simultaneous) confidence and tolerance intervals	Max Menssen	Nonparametric analysis of covariance in Mann-Whitney effects	Konstantin Emil Thiel
	Bayesian approaches in time of ML and AI	Katja Ickstadt	Closed Testing, Interim Analysis and Adaptations – History, Methods, and Modern Challenges	Franz König	The impact of the number and the size of clusters on prediction performance of the stratified and the conditional shared gamma frailty Cox proportional hazards models	Daniele Giardiello	Detecting gene-environment interactions to guide personalized intervention: boosting distributional regression for polygenic scores	Qiong Wu	Multiple-use prediction and calibration for all future values: exact simultaneous tolerance bands for regression	Yang Han	Enabling Inference in Small Samples: Bayesian Estimation of Nonparametric Effects	Levin Wiebelt
	Lessons learned in the last 25 years	Gerhard Nehmiz	Principles in Harmony: Closed Testing Meets the Partitioning and Projection Principle	Werner Brannath	Evaluating Statistical Methods for Multiple Time-to-Event Endpoints: A Simulation Study on Recurrent and Competing Events	Duoerkongjiang Alidan	A Nested Cross-Validation Framework for Leakage-Free Calibration of Adaptive Elastic-Net Regression in High-Dimensional Data	Gul Inan	Minimum area confidence set optimality for simultaneous confidence bands for percentiles with applications to drug shelf-life estimation	Lingjiao Wang	A New Approach to the Nonparametric Behrens-Fisher Problem with Compatible Confidence Intervals	Stephen Schüürhuis
	Discussant		Graphical Approaches for Transparent Closed Testing	Martin Posch	Prognostic Models for Recurrent Event Data	Victoria Watson	Regularized Multi-Omics Regression Modelling for Transcriptomic-Proteomic Integration in Mice with induced liver Damage.	Ngoune Domo Brunel Darwin	Detecting day-to-day effects in concentration-response experiments in toxicology	Julia Eichhorn	Graph-theoretic determinants of causal discovery performance in feedback-driven biological networks	Markus Schepers
		Reinhard Vonthein	Multiple hypotheses testing in clinical trials beyond familywise error rate control	Frank Bretz	Unsure about the Markov assumption? A comparison of transition probability estimators in multi-state models	Merle Munko	StabCell: A stability-selection framework with error control for clustering and differential expression analysis of scRNA-seq data	Niklas Lück	Choice of the hypothesis matrix for usual quadratic forms	Paavo Sattler	The Chicken or The Egg? Causal Inference Methods for Cross-Lagged Effects in Longitudinal Panel Data	Tanya Toluay
LUNCH: 12:15-13:45												
Early afternoon parallel: 13:45-15:15	IS2: Multiple tests beyond parametric assumptions		TC2: Interpretable Bayesian modelling of high-dimensional / complex problems in molecular biomedicine		Censored data 2		Machine learning and data science 1		Statistical hypothesis testing 2		Statistical modelling 1	
	Multiple Comparison Procedures for Simultaneous Inference in General Factorial Design for Multivariate Functional Data	Łukasz Smaga	Probabilistic Variable Importance: A Bayesian Perspective on Interpretable Machine Learning	Christian Staerk	mRNA COVID-19 vaccination in pregnancy and risk of pregnancy loss: a progressive multistate model to account for time-dependent exposure	Lukas Lohse	Identifying Post-COVID Risk Factors with Model-Agnostic Feature Importance	Lukas Burk	Test of independence in a three-level model	Anna Szczepańska-Alvarez	The effect of attentional control on postural stability in young and older adults	Jakub Malik

WEDNESDAY

Early morning plenary: 9:00-10:00

Keynote
Optimal design and Analysis in cytotoxicity experiments — Bridging the gap between statistics and toxicology
Kirsten Schorning

Coffe break:

10:00-10:45

Poster session

Late morning parallel:

10:45-12:15

IS4: Questions of Experimental Design and Statistical Analysis in Preclinical Research

YSS1 (ROeS)

Censored data 3

High dimensional data 2

Methods in epidemiology 1

Statistical modelling 2

From design to decision: A case study in preclinical pooled CRISPR demonstrating statistical opportunity

Natasha Karp

Navigating Multiplicity in Multiverse Analyses: A Simulation Study and Case Application to Lung Cancer Staging Using SEER Data

Gloria Brigiari

Inference in pseudo-observation-based regression using (biased) covariance estimation and naive bootstrapping

Simon Mack

Individuality and information content of infrared molecular profiles: insights from a large longitudinal health-profiling study

Kosmas Kepesidis

Inferring the causal effect direction in genetic association studies: An application to broad depression, obesity, and asthma

Sharon Lutz

Comparison of statistical methods for dealing with deviations in concentration-response curves

Huiying Zhou

Optimizing Preclinical Research: Sample Size Planning and Sequential Designs

Frank Konietschke

Modeling Antibody Kinetics in Pregnant and Lactating Women Following COVID-19 and Tdap Vaccination

Lukas Frank Buchhäusl

Evaluating selective-inference methods for Lasso in survival analysis: a comparative simulation study

Lena Schemet

Statistical basis for precision screening with infrared molecular fingerprints: functional data decomposition and lung cancer signals

Lea Gigou

Methodological and Practical Challenges in Developing a Cardiac Allocation Score

Leonie Lenz-Seraphin

A comparison of variable selection approaches for spline regression

Franziska Kappenberg

Statistical Planning and Reporting for Multi-Laboratory Preclinical Trials

María Arroyo Araujo

Edgington's Method for Random-Effects Meta-Analysis

David Kronthaler

Evaluation of Joint Models and Related Approaches for Long-Term Risk Prediction from Short-Term Data

Moritz Madern

Integrative Prediction Models for Multi-Omics Data with Missing Modalities

Marina Bleskina

Timeliness of Polio Vaccination during 2019-21 in India: A finite mixture modeling analysis

Sumit Kumar Das

A Clustered-Metric Simulation Study Comparing Flexible Regression Techniques for Non-Linear Associations

Theresa Ullmann

The Experimental Unit Information Index: Balancing Evidentiary Value and Sample Size of Adaptive Designs

Leonhard Held

Evaluation of cancer screening programmes: integration of the biological tumour growth model into the MOCCI method

Ema Požek

Comparing variable selection in Cox and accelerated failure time models: noncollapsibility, the phantom hazard

Lorena Hafermann

Inference for Functional Matched Pairs Designs with Missingness

Marléne Baumeister

Advancing mixed-effects random forests to predict BMI development in children and adolescents based on multi-cohort data

Jiumeng Zhang

Detection of changes in time series of preclinical measurements for selecting Virtual Control Groups

Wiebke Dammann

Comparative Analysis of Classification Models for Pharmaceutical Permeability Prediction

Jana Habus-Korbar

Informative Subsampling via Optimal Design for Efficient Training on Large and High-Dimensional Genomic Data

Subhadra Dasgupta

Estimating prevalence of micronutrient deficiency across multiple biomarkers: Approaches for generalized linear and linear mixed models

Steffen Hadasch

Limitations and Challenges of Mixed Models Repeated Measures (MMRM) Analysis

Moses Mwangi

LUNCH:

12:15-13:45

Early afternoon parallel:

13:45-15:15

IS5: Navigating in murky waters: reproducing preclinical findings

YSS2 (PL & D)

Clinical trials 2

Machine learning and data science 3

Methods in epidemiology 2

Other 3

Reproducibility and Ethics in Nonclinical Statistics: Building Trust

Helena Geys

Hypothesis Testing in Ill-Conditioned Functional Response Models

Natalia Stefańska

A systematic empirical comparison of different statistical approaches for a multi- aspect analysis of clinical trial data in rare diseases

Martin Geroldingerr

A Comprehensive Comparison of Methods for Quantifying Similarity of Datasets

Marieke Stolte

Detection of Measurement Errors and Heterogeneity During the Collection of Observational Data: A Simulation Study

Ronja Foraita

Feasibility of Photoplethysmography for Heart Rate Asymmetry Assessment: A Comparative Study using the Autonomic Aging Database

Rafał Pawłowski

	The Impact of Methodological Rigor on Reproducibility in Biomedical Research	Ulf Toelch	missKnockoffs: A Robust Approach to Variable Selection in Incomplete Omics Data under False Discovery Control	Dominik Nowakowski	Assessing covariate-adjusted risk differences in small-sample trials: A comparative evaluation of statistical methods	Martin Schnuerch	A New Approach to Distinctness Testing	Laura Slebioda	Detecting Temporal Measurement Heterogeneity in Cohort Studies: Lessons from the Study of Health in Pomerania	Carsten Schmidt	Assessing the Reliability of Virtual Control Groups in Preclinical Toxicology	Timur Tug
	Planning animal experiments based on estimation error considerations	Dario Zocholl	Conditional distribution function-based measure for independence testing of functional data.	Filip Pieczętkiewicz	Allocation Bias in Rare Diseases Clinical Trials with Multiple Endpoints	Stefanie Schoenen	Predicting mixture of experts performance by generalized estimating equations	Małgorzata Ćwiklińska-Jurkowska	Navigating Complexities in Assessing Systemic Health Effects of Tattoos in a Population-Based Cohort	Narges Ghoreishi	Modeling data with values above the upper limit of quantitation	Hannesfriedrich Ulbrich
	Sample Size Minimisation in Preclinical Animal Trials	Nicole Ellenbach	Combining machine learning methods for subgroup identification in time-to-event data with approximate Bayesian computation for bias correction	Henrik Stahl	When randomization is not random: Allocation bias in small sample, group sequential randomized clinical trials	Daniel Bodden	Predicting Ordinal Outcome Using Interpretable Artificial Representative Tree with Conformal Uncertainty Quantification	Lea Louisa Kronziel	Beyond Case Counts: Simulation Evidence for Probability-Based Pandemic Surveillance	Inken Siems	Consideration of missing values in sample size calculation using multiple imputation	Teresa Byczkowski
			Estimating the Causal Effect of a Cumulative Exposure on an Outcome in Studies Prone to Confounding and Irregular Visits	Mathilde Dicaire-Cartier	Multiple Treatment Arms, Multiple Biases? Allocation and chronological biases in platform trials	Nico Bruder	modgo 2.0: an R package for synthetic data generation to mimic original study data	Andreas Ziegler			Calibrating machine learning approaches for probability estimation in case of the absence of calibration data	Eleonora Di Carluccio
			Variable Selection in Meta-Regression with Suspected Interaction Effects	Paula Lorenz								

Late afternoon parallel	No sessions
16:00-19:00	Annual German Region Meeting
16:00-19:00	Excursions
19:00-22:00	Gala dinner

IS: invited session
TC: topic-contributed session
YSS: Young-statisticians session

THURSDAY
Early morning plenary: 9:00-10:00

Keynote

Causal inference in practice – One (?) estimand, many (!) analytical decisions

Susanne Strohmaier

Coffe break: 10:00-10:45

Poster session

Late morning parallel: 10:45-12:15

IS6: Big Data in Biomedicine: Innovations Across Imaging and Omics

TC4: Biometrics in the era of AI

Clinical trials 3

Ecological and agricultural statistics 1

Evidence synthesis 1

Methods for diagnostics studies 1

Functional Data Analysis of Head Impact Exposure of College Football Athletes

Jaroslav Harezlak

On the Role of Biometry in AI Projects

Björn-hergen Laabs

A randomized basket trial design for dose optimization based on Bayesian model averaging using spike-and-slab priors

Belay Birlie Yimer

Clustering of indicator species according to soil properties in the regeneration phase of pedunculate oak (Quercus robur L.) forests

Anamarija Jazbec

Parametric nonlinear dose-response meta regression

Christian Ritz

Strategies for dealing with outliers in (semi-)parametric estimation of reference intervals and standard deviation scores

Andreas Gleiss

Quantile regression in genomics: a new lens for genetic discovery and phenotype prediction

Iuliana Ionita-Laza

ChatGPT as a Tool for Biostatisticians

Dennis Dobler

A Basket Trial Design for Unequal Sample Sizes Based on Power Priors

Lukas Baumann

Quality over Quantity? - The optimised allocation of quality samples in Bavarian post-registration trials in perennial ryegrass

Anne-katrin Gorn

Meta-analyses based on previous meta-analyses

Christian Röver

A Novel Approach to Diagnostic Evaluation: Prevalence-Corrected Precision-Recall Curves

Ilker Unal

Degradation Graphs Reveal Hidden Proteolytic Activity in Peptidomes

Jonas Wallin

Teaching Biostatistics in Times of AI

Ursula Berger

How to optimize dynamic borrowing in basket trials – A utility-based framework.

Lukas D Sauer

Challenges and Perspectives on Using Environmental Covariates in Multi Environment Trials A Case Study in Sugar Beet

Maksym Hrachov

Proper Back-Transformations for the Random-Effects Model in Meta-Analysis

Jan-bernd Igelmann

Covariate adjustment, factorial designs and clustered data in diagnostic accuracy studies

Philipp Weber

Relative quantification of proteins with shared peptides: a weight-based approach

Mateusz Staniak

Panel discussion

Presenters, Sarah Friedrich-Welz, Frank Bretz

“AI-Assisted Methodology Validation Before Data Collection: The E-PICOS Framework for Robust Clinical Trials”
Using Confidence Distributions in Final and Interim Analyses for Single-Arm Studies or Platform Trials Consisting of Single-Arm Studies

Arzu Kanik

Optimizing the allocation of trials to sub-regions in crop variety testing: different conditions in different years

Maryna Prus

Bayesian conjugate analysis for federated statistical inference

Peter Degen

Enhancing Efficiency in Cancer Drug Testing using Nonparametric Approaches

Sunil Mathur

LUNCH: 12:15-13:45

Early afternoon parallel: 13:45-15:15

IS7: Methods to improve the practical usefulness of biomedical research

TC5: Statistical issues in health care provider comparisons

Clinical trials 4

High dimensional data 3

Other 1

Missing data 1

Systematic Review and Meta-analysis of Animal Studies as Tools for Strengthening Research Integrity

Kimberley Wever

Causal Inference for Healthcare Profiling in Low-Event Settings

Sharon-lise Normand

Difference-in-difference estimators in randomized trials with external controls

Christiana Drake

Integrating functional motif discovery and statistical learning approaches for advanced blood glucose prediction in real-world conditions

Sara Garber

Statistical methods to reduce Selection Bias in Dose-Finding Studies with Binary Endpoints

Alexandra Balzer

Prediction in the presence of missing values. Are there credible alternatives to imputation-based use of the predictive density?

Bart Mertens

	Quality assessment of proposals for animal studies and corresponding publications	Florian Frommlet	Measuring performance for end-of-life care	Sebastien Haneuse	Evidence Generation Using External Controls: Opportunities and Challenges – A Regulator’s Perspective	Armin Schüler	Statistical end-to-end analysis of large-scale microbial growth data with DGrowthR	Medina Feldl	Comparison of ANOVA methods for experiments in the nested block design	Konrad Banaś	Impact of imputation on individual cough alert system with incomplete baseline monitoring	Dörte Huscher
	From the Classroom to the Clinic: Teaching Reproducibility in Statistics Education	Samuel Pawel	Timely yearly assessment of follow-up outcomes using a period-based survival data approach	Lisa Steyer	Bayesian Methods Integrating Causal Inference Approaches for Borrowing Historical Control Data in RCTs: A Neutral Comparison Study	David Jesse	Population Matching to Enhance Back-Translation Between Clinical Trials and Biobank Data for Drug Target Discovery	Han Chang Chiam	Rectangular augmented row-column designs generated from contractions	Hans-peter Piepho	The performance paradox: understanding the discrepancy between the performance of imputation approaches for survival models with missing covariates in simulation studies and real data	Edouard F. Bonneville
	Discussant	Ulrich Dirnagl	Improved predictions of quality of care indicators in the tail of its distribution	Els Goetghebeur	Identification of subtrial-specific optimal biological dose (OBD) with robust borrowing of information	Zhi Cao	Entropy Adjusted Graphical Lasso for Sparse Precision Matrix Estimation	Vahe Avagyan	Effect of using textbook field plans without randomization	Jens Hartung	Handling Missing Data in Life Science: A Comparative Study of Imputation Methods for Medical Data.	Maria Thurow
			Comparing the usefulness of patient and clinician reported outcomes measures to compare providers of arthroscopic rotator cuff repair – Methodological considerations	Werner Vach					Socio-spatial characterization of sub-sewersheds for wastewater-based epidemiology: Developing and evaluating two estimators for population-related variables	Yassine Talleb	Evaluating the Impact of Missing Data Imputation Methods on Bias and Covariate Balance in Propensity Score Analysis: A Simulation Study	Saghar Garayemi
Coffe break: 15:15-15:45												
Late afternoon parallel: 15:45-17:15	IS8: Regularization methods and their applications in the work of IQWiG and IQTIG		TC6: Bridges and Barriers: Career Moves Between Industry and Academia		Clinical trials 5			Machine learning and data science 4		Open and reproducible research 1		
	Regularization methods in clinical biostatistics: State-of-the-art and possibilities for improvement	Sarah Friedrich-Welz	Panel discussion	Panel discussion	Assessment of Global Evidence Against Homogeneity for Exhaustive Subgroup Treatment Effect Plots	Björn Bornkamp	Generative Adversarial Networks For Mortality Modelling	Łukasz Głąb	Addressing the researchers' degree of freedom using multiple marginal models	Anne-laure Boulesteix		
	The Firth correction - a recap	Georg Heinze			Comparing adverse event probabilities in a hypothetical world without consent withdrawals or treatment switches	Judith Vilsmeier	Lesion Network Mapping based Convolutional Neural Networks: Predictive Performance and Interpretability	Matthias Becher	OMOP ETL Pipeline Implementation for Tuberculosis Data Standardisation at Douala General Hospital, Cameroon	Brenda Yankam Mbouamba		
	Regularization methods in the evaluation of hospital quality	Jona Cederbaum			Counterfactual Uncertainty Quantification in Personalized Medicine: A Statistical Framework for RCTs	Xingya Wang	Deep Learning Strategies for Rare and Common Brain Disease Diagnostics from Medical Imaging	Anna Mamchych	Living Synthetic Benchmarks: A Neutral and Cumulative Framework for Simulation Studies	František Bartoš		
	Regularization methods in clinical biostatistics: Evaluation of adverse events in early benefit assessment using Firth correction for Cox models in the case of zero events	Lars Beckmann			Continuous Monitoring in Early Phase Oncology: A Standardized, Patient-Centric Approach	Kuzko Aleksandra	From Data to Decisions: Enhancing the Reliability of Random Forest Predictions with optRF	Thomas Martin Lange	How many subgroup analyses are false (-positives or negatives)? – Evidence from p-value distributions of interaction tests and mixture models in diabetes research	Oliver Kuss		
					Blinded continuous monitoring for continuous outcomes	Longhao Xu			Improving clinical and methodological research in the health sciences – on the crucial role of reporting guidelines and structured reporting	Willi Sauerbrei		
17:30-18:00 Closing ceremony												
IS: invited session; TC: topic-contributed session												