Navigating the Landscape of Scientific Integrity: Insights into open science, replicability, data sharing and questionable research practices in the field of medicine

Workshop organized by

Prof. Dr. Anne-Laure Boulesteix and Dr. Sabine Hoffmann (LMU)

27 and 28 November 2024

Wednesday, 27 November 2024

9.00 - 9.20   Welcome Address
               Lena Bouman (CAS LMU) and **Sabine Hoffmann** (LMU)

9.20 - 10.10   **Reinhard Griebenow** (European Cardiology Section Foundation)
               Trust in Medicine

10.10 - 11.00   **Balazs Aczel** (ELTE Budapest)
               The World of Multiple Results: What Multi-Analyst Studies Tell Us

11.00 - 11.30   *Coffee Break*

11.30 - 11.45   **Eva Hoster** (LMU)
               Reproducible Clinical Trials: Practices and Challenges

11.45 - 12.00   **Fady Albashiti** (LMU)
               Clinical Real World Data: Experiences and Challenges

12.00 - 12.15   **Rainer Malik** (LMU)
               Lessons Learned from Large International Genomics Consortia

12.15 - 12.45   Discussion

12.45 - 13.45   *Lunch Break*

13.45 - 14.35   **Leonhard Held** (Universität Zürich)
               The Different Dimensions of Irreproducible Research - Some Recent
               Examples

14.35 - 15.05   **Michael Schomaker** (LMU)
               Comparing Apples with Apples and Allowing for Gradations of Evidence:
               Replicability Illustrated in the Context of Pharmacoepidemiology

15.05 - 15.35   *Coffee Break*

15.35 - 15.50   **Luisa Jimenez Soto** (LMU)
               From 20th-Century Science Practices to Open Science in Infection Biology:
               Challenges and Lessons We Are Learning

15.50 - 16.05   **Michael Ingrisch** (LMU)
A Replication Case Study

16.05 - 16.20   **Enzo Lüsebrink** (LMU)
Ensuring the Highest Methodological Quality Standards in Clinical Research

16.20 - 16.35   **Wolfgang Hartl** (LMU)
Fake Papers or Game Changers in Medicine -
The Example of the EXIT-SEP Study

16.35 - 17.15   Discussion

17.15 - 18.15   *Reception*

Thursday, 28 November 2024

9.00 - 9.50   **Ulrich Mansmann** (LMU)
From Reporting to Data Sharing: "Strategies to Consolidate Scientific Findings

9.50 - 10.40   **Sarah Friedrich** (Universität Augsburg)
Synthetic Data in Medicine - Properties, Promises and Challenges

10.40 - 11.10   *Coffee Break*

11.10 - 12.00   **Jörg Drechsler** (LMU)
Some Challenges with Differential Privacy in Medicine (That Don't Exist in the Tech World)

12.00 - 12.30   Discussion Data Sharing

12.30 - 13.30   *Lunch Break*

13.30 - 14.20   **Laure Wynants** (Maastricht University)
Clinical Risk Prediction Models and Machine Learning. Benefiting Clinical Practice or Piling up Research Waste?

14.20 - 15.10   **Willi Sauerbrei** (Universität Freiburg)
Guidance for Analysis, Study Registration and Structured Reporting - Factors which Increase Trustworthiness in Results from Observational Studies

15.10 - 15.40   *Coffee Break*

15.40 - 16.30   **Tim Morris** (University College London)
Estimands, Analysis Plans, Sense and Sensitivity

16.30 - 16.40   Wrap-up and Closing
Anne-Laure Boulesteix (LMU)