

## Please save the date for the Summer Biometric Seminar 2024

### **BRIDGING THE GAP BETWEEN BAYESIAN & FREQUENTIST APPROACHES IN CLINICAL TRIALS FOR DRUG DEVELOPMENT**

**When? June 21st 2024, 09:00 – 12:00**

**Where? Jugendstilhōrsaal der Medizinischen Universität Wien**  
Spitalgasse 23, 1090 Vienna

#### **ABSTRACT**

Adaptive designs and complex clinical trials offer many well-known advantages throughout the clinical development process and their acceptance is steadily increasing. Typically, such designs use either the Bayesian or the frequent framework for decision-making and reporting. While frequentist adaptive designs often have closed-form calculations of operating characteristics, Bayesian designs usually require simulations. On the other hand, Bayesian designs often make it easy to communicate results, incorporate multiple endpoints and achieve efficiency gains by using e.g., the predictive probability for interim decision making. Regardless of the choice of analysis method and the associated philosophical differences in the paradigms, there is an understanding that, among others, frequentist operating characteristics such as power and type 1 error are important to evaluate the proposed design. Ultimately, both Bayesian and frequentist adaptive designs aim to and should be judged by their ability to produce better and more efficient clinical trials without compromising their statistical integrity. In this session, we will bring together experts in the design of both Bayesian and frequentist adaptive trials to learn more about recent methodological advances, regulatory considerations, and practical experiences when designing and assessing these trial designs.

#### Confirmed Speakers / Discussants:

- Cora Allen-Savietta, Berry Consultants
- Nicholas S. Berry, Berry Consultants
- Amy Crawford, Berry Consultants
- Florian Klinglmüller, Austrian Agency for Health and Food Safety
- Martin Posch, Medical University of Vienna
- Rainer Puhr, Monash University
- More to come!

Organizers: Franz König, Medical University of Vienna, Elias Laurin Meyer, Berry Consultants