



Der Vorsitzende des Promotionsausschusses

E I N L A D U N G

Hiermit lade ich ein zum öffentlichen Promotionskolloquium von

Frau Apothekerin Fatima Zahra Marok

Klinische Pharmazie
(Prof. Dr. Thorsten Lehr)

am

Dienstag, 5. November 2024, 14:00 Uhr s.t.

per Videokonferenz; Link für MS Teams: <https://msteams.link/P2KI>
Raum für die Prüfung: Gebäude C1.7, Mikroskopieraum 0.07, EG

Thema der Dissertation:

**Beneath the tip of the iceberg - Emphasizing the role of metabolites
in physiologically based pharmacokinetic model development**

While metabolites can provide unique insights for drug discovery and development (D3), there is currently no explicit guidance for their investigating in the context of PBPK modeling, which is an integral part in D3. Its usefulness, for example in estimating various drug interaction scenarios, is well recognized by regulatory agencies. To highlight the significance of metabolites in PBPK model analyses, particularly for drug interactions, parent-metabolites PBPK models were developed for bupropion, ketoconazole and 5-fluorouracil as well as uracil, where their inclusion was crucial to implement and evaluate drug interactions and subsequent model applications such as model-based dose adjustments. This thesis outlines a blueprint for determination of a metabolite's role in PBPK model development, drawing insights from the presented projects.

Saarbrücken, 22. Oktober 2024

Prof. Dr. Uli Kazmaier