



Der Vorsitzende des Promotionsausschusses

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## EINLADUNG

Hiermit lade ich ein zum öffentlichen Promotionskolloquium von

**Frau M.Sc. Sabrina Schnur**

Biopharmazie und Pharmazeutische Technologie  
(Prof. Dr. Marc Schneider)

am

**Dienstag, 25. Juni 2024, 15:00 Uhr s.t.**

per Videokonferenz; Link für MS Teams: <https://msteams.link/4RF8>

Raum für die Prüfung: Gebäude E2.1, Seminarraum 001.0, EG

### **Thema der Dissertation:**

#### **Establishment of an *in vitro* model for the simulation of inflammatory bowel disease as an alternative to animal experimentation**

Inflammatory bowel disease (IBD) is a multifactorial gastrointestinal disease that affects a growing number of patients. Animal models are commonly utilized for IBD drug development. Nowadays, the ethical concern regarding animal experimentation is increasingly addressed based on the 3R (Replacement, Reduction and Refinement) principle. It was recently focused in the Food and Drug Administration (FDA) Modernization Act 2.0 allowing for alternatives to animal experimentation in preclinical studies. Therefore, an inflammable *in vitro* co-culture model consisting of epithelial and immune cells was developed. Furthermore, the predictivity was evaluated by the determination of an *in vitro-in vivo* correlation utilizing commonly applied drugs for the treatment of IBD linked to disease severity. Additionally, the effect of combination therapy and the natural product Epigallocatechin-3-gallate (EGCG) was investigated.

Saarbrücken, 11. Juni 2024

Prof. Dr. Uli Kazmaier