



Der Vorsitzende des Promotionsausschusses

EINLADUNG

Hiermit lade ich ein zum öffentlichen Promotionskolloquium von

Frau M.Sc. Aylin Berwanger
Medizinische Chemie der Anti-Infektiva
(Prof. Dr. Martin Empting)

am

Mittwoch, 19. August 2026, 10:00 Uhr s.t.

per Videokonferenz: Link für MS Teams: <http://bit.ly/4aq2C4q>

Raum für die Prüfung: HIPS, Gebäude E8.1, EG, Seminarraum 0.27

Thema der Dissertation:

Discovery, design, synthesis and evaluation of novel protein-nucleic acid interaction inhibitors directed against KSHV LANA and IMP2

Cancer is characterized by the uncontrolled growth and spread of abnormal cells, triggered by various mechanisms. Some cancers are caused by oncogenic viruses such as Kaposi's sarcoma-associated herpesvirus (KSHV). Certain proteins, such as insulin-like growth factor 2 mRNA-binding protein 2 (IGF2BP2 or IMP2), which are normally only expressed during embryonic development, can become reactivated and promote tumor growth and poor prognosis. This thesis describes the optimization and expansion of previously reported KSHV LANA-DNA interaction inhibitors to achieve *in cellulo* activity for the first time. Additionally, the compounds were converted into proteolysis-targeting chimera (PROTAC) candidates to induce target protein degradation. Furthermore, screening of a compound library identified novel inhibitors of the IMP2-RNA interaction, which were subsequently characterized biophysically.

Saarbrücken, 5. August 2026


Prof. Dr.-Ing. Georg Frey