



Der Vorsitzende des Promotionsausschusses

EINLADUNG

Hiermit lade ich ein zum öffentlichen Promotionskolloquium von

Frau Apothekerin Nadja Tanja Walle

Experimentelle und Klinische Toxikologie & Pharmakologie
(Prof. Dr. Markus R. Meyer)

am

Dienstag, 27. Januar 2026, 15:00 Uhr s.t.

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

Raum für die Prüfung: Institut für Rechtsmedizin,
Gebäude 49.1, Campus Homburg

Thema der Dissertation:

Toxicokinetic Studies on the Synthetic Cannabinoid Cumyl-5F-P7AICA in Pigs

Interpretation of analytical results in connection with the consumption of synthetic cannabinoids (SCs) still represents a major challenge in clinical and forensic toxicology. Minor modifications in their chemical structure can result in novel, often unknown compounds with potentially altered toxicokinetic (TK) properties. This also concerns the detection and TK properties in alternative specimens, e.g. exhaled breath (EB). This thesis aimed to clarify the intravital and postmortem TK properties of the structurally modified SC *cumyl*-5F-P7AICA and its *N*-pentanoic acid metabolite after intravenous and inhalative administration using the pig model. A population TK modeling was performed and the data were upscaled to humans by allometric scaling. Additionally, a new in vitro EB sampling technique was developed that can prospectively be applied in ventilated pigs to elucidate TK properties in EB.

Saarbrücken, 13. Januar 2026



Prof. Dr.-Ing. Georg Frey