



Der Vorsitzende des Promotionsausschusses

EINLADUNG

Hiermit lade ich ein zum öffentlichen Promotionskolloquium von

Frau M.Sc. Selin Akpınar Adscheid

Biopharmazie Pharmazeutische Technologie
(Prof. Dr. Marc Schneider)

am

Freitag, 11. Juli 2025, 14:00 Uhr s.t.

per Videokonferenz: Link für MS Teams: <https://msteams.link/FVQV>

Raum für die Prüfung: Gebäude C4.1, Raum 0.04

Thema der Dissertation:

Scalable Polymeric Nanoparticles for Potential Nose-to-Brain Delivery Applications

Nose-to-brain delivery offers a non-invasive approach to bypass the blood-brain barrier for treating central nervous system disorders. Among the various carriers, biodegradable polymeric nanoparticles such as poly(lactic-co-glycolic acid) (PLGA) are especially promising due to their biocompatibility, and ability to encapsulate a wide range of therapeutic agents. However, their scalability remains a key challenge for clinical translation. Therefore, this dissertation explores two different continuous production technologies: the spinning disc system and the micro-spray reactor for encapsulating small or large molecular weight molecules using novel production methods. These proof-of-concept studies demonstrate the potential of continuous processes for flexible and scalable nanoparticle production, supporting nose-to-brain drug delivery strategies.

Saarbrücken, 24. Juni 2025

Prof. Dr. Uli Kazmaier