



Wahlpflichtfach SoSe 2021 bis WiSe 2021/22

Abt. Klinische Pharmazie & Biochemie

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LITERATURE RESEARCH: TRANSLATION OF IN VITRO AND ANIMAL STUDIES FOR NEBULIZED (PROTEIN) DRUGS AND DRUGS WITH PULMONARY ACTION [FAIR-TRANS]

Beschreibung/Aufgaben

Bacterial pneumonia is a leading cause of morbidity and mortality worldwide, currently treated with antibiotics. This standard of care faces antimicrobial resistance (AMR) and thus curative failure. Other treatment options currently being investigated are the use of immunomodulatory proteins derived from bacteria, which enhance airway epithelial innate immune defences and increases the therapeutic outcome relative to antibiotic alone. The safety, efficacy and PK/PD of these compounds is first investigated *in vitro* and in animals before the translation to man is made.

In this project, previous translational work regarding nebulized drugs or drugs with pulmonary action will be collected and summarized in order to provide a state of the art approach for new compounds.

Lernziele/Methoden:

- Independent literature research on *in vitro* and animal studies regarding nebulized drugs or drugs with pulmonary action and how they were translated to higher species or man.
- Summarising of the literature research in a report and presentation of the results

Beginn: as per agreement

- Voraussetzungen:** Interest in protein therapy, nebulization, pulmonary drugs
Scientific reading and writing skills
- 2 Studierende** (Studierende des 7. und 8. Semesters werden bevorzugt)
- Anmeldung:** Bis 24.05.2021 per E-Mail bei Frau Prof. Dr. Charlotte Kloft
(charlotte.kloft@fu-berlin.de, CC an ingo.siebenbrodt@fu-berlin.de) mit kurzer Bewerbung einschl. Darlegung der Motivation für das Wahlpflichtthema. **FAIR-TRANS**