



Wahlpflichtfach SoSe 2021 bis WiSe 2021/22

Abt. Klinische Pharmazie & Biochemie

Ansprechpartner/Contact person: Alix Démaris
e-mail: alix.demaris@fu-berlin.de
Raum-Nr./room No: 130A
Tel./phone: 030 838 50662

LITERATURE RESEARCH: PHYSIOLOGICALLY-BASED PHARMACOKINETIC MODELLING OF INFLIXIMAB IN INFLAMMATORY BOWEL DISEASES. [INFLIX]

Beschreibung, Aufgaben/Description, tasks:

Over the past few decades, monoclonal antibodies (mAbs) have become one of the most important and fastest growing classes of therapeutic molecules, with applications in a wide variety of disease areas such as inflammatory bowel diseases (IBD). However, their pharmacological (pharmacokinetic and pharmacodynamic) properties differ substantially from small molecule drugs. In this context, physiologically-based pharmacokinetic (PBPK) models are an interesting approach to characterise the different pharmacokinetic processes of these mAbs. Here, we will focus on infliximab, an anti-TNF α mAb indicated in the treatment of patients with moderate to severe IBD.

Your task is to perform a detailed literature research of different PBPK models of infliximab. The literature research should cover the physiology of IBD patients as well as the different pharmacokinetic processes of mAbs such as infliximab.

Lernziele, Methoden/Learning objectives:

- Research of available literature (searching medical databases, e.g., PubMed)
- Critical review of the literature
- Summary of the results (with the references) and presentation (in English)

Voraussetzungen/Requirements:

Interest in science and scientific literature research, pharmacokinetic modelling, physiology, monoclonal antibodies and inflammatory diseases.

Beginn/Start	as per agreement
1 Studierende/students	Studierende ab dem 5. Semester (Studierende des 7. und 8. Semesters werden bevorzugt) / Students from the 5 th semester/Students in the 7 th or 8 th semester
Anmeldung/Registration	Ab sofort bis spätestens 24.05.2021 per E-Mail an / Until 24. May 2021 by e-mail to Prof. Dr. Kloft (charlotte.kloft@fu-berlin.de und CC an ingo.siebenbrodt@fu-berlin.de) mit kurzer Bewerbung einschl. Darlegung der Motivation für das Wahlpflichtfachthema: INFLIX / with a short application present a motivation for the topic and include the subject: INFLIX