

## 2021 Virtual Course Pharmacokinetics and Pharmacodynamics of Protein Therapeutics: Principles and Pharmacometric Approaches

December 1-3, 2021

Course Directors: Bernd Meibohm, University of Tennessee, and Johan Gabrielsson, Biopharmacon, Gothenburg

- Course Schedule (in US Central Standard Time) -

Time	Wednesday, December 1	Time	Thursday, December 2	Time	Friday, December 3
Topic	Basic Concepts	Topic	PK/PD	Topic	Developmental Aspects
9:00-9:15	Introduction (Bernd Meibohm & Johan Gabrielsson)	9:00-9:30	Discussion of MaxSim2 Homework (Johan Gabrielsson & Bernd Meibohm)	9:00-9:30	Discussion of Practical Biologics Homework (Johan Gabrielsson & Bernd Meibohm)
9:15-9:45	Basic Pharmacokinetics of Proteins (Bernd Meibohm)	9:30-10:00	TMDD: Steady-state relationship of ligand, target and complex I (Johan Gabrielsson)	9:30-10:00	Clinical Pharmacology Challenges for Protein Therapeutics (Bernd Meibohm)
9:45-10:00	<i>Discussion</i>	10:00-10:15	<i>Discussion</i>	10:00-10:15	<i>Discussion</i>
10:00-10:30	Drug Disposition of Monoclonal Antibodies (Bernd Meibohm)	10:15-10:45	TMDD: Steady-state relationship of ligand, target and complex II (Johan Gabrielsson)	10:15-10:45	Disease States & Covariates Modulating PKPD of Proteins (Bernd Meibohm)
10:30-10:45	<i>Discussion</i>	10:45-11:00	<i>Discussion</i>	10:45-11:00	<i>Discussion</i>
10:45-11:00	Break	11:00-11:15	Break	11:00-11:15	Break
11:00-11:30	Basic Concepts of Target-Mediated Drug Disposition I (Johan Gabrielsson)	11:15-11:45	PKPD Modeling and Simulation: Concepts of Rapid Equilibrium (Bernd Meibohm)	11:15-11:45	Evaluation of Drug-Drug Interactions of Therapeutic Proteins (Bernd Meibohm)
11:30-11:45	<i>Discussion</i>	11:45-12:00	<i>Discussion</i>	11:45-12:00	<i>Discussion</i>
11:45-12:15	Basic Concepts of Target-Mediated Drug Disposition II (Johan Gabrielsson)	12:00-12:30	PKPD Modeling and Simulation: Concepts of Turnover Models (Johan Gabrielsson)	12:00-12:30	PKPD of Proteins in Pediatrics (Bernd Meibohm)
12:15-12:30	<i>Discussion</i>	12:30-12:40	<i>Discussion</i>	12:30-12:45	<i>Discussion</i>
12:30-12:45	Break	12:40-12:50	Cytokinetic Models (Bernd Meibohm)	12:45-13:00	Break
12:45-13:15	Extravascular Administration of Proteins (Bernd Meibohm)	12:50-13:00	Break	13:00-13:30	Immunogenicity (Bernd Meibohm)
13:15-13:30	<i>Discussion</i>	13:00-13:30	First-In-Human Dose Predictions (Bernd Meibohm)	13:30-13:45	<i>Discussion</i>
13:30-14:00	MaxSim2 Demonstration & Homework (Johan Gabrielsson & Bernd Meibohm)	13:30-13:45	<i>Discussion</i>	13:30-13:45	<i>Discussion</i>
		13:45-14:00	Practical Biologics Homework (Johan Gabrielsson & Bernd Meibohm)	13:45-14:00	Wrap up (Johan Gabrielsson & Bernd Meibohm)

### Time Zones

US Eastern Standard Time

10am-3pm

US Central Standard Time

9am-2pm

US Pacific Standard Time

7am-12pm

Greenwich Mean Time

3pm-8pm

Central European Time

4pm-9pm