



PHARMACOKINETICS – AN ACTUAL INTRODUCTION

Introduction to the PK/PD General Concepts Workshop

Monday, September 06, 2004

This workshop will allow the participants to learn the basic principles of anatomy, physiology, pharmacy and biochemistry relevant for the “PK/PD General Concepts Workshop” on Tuesday and Wednesday, September 07-08, 2004.

The Monday workshop “Pharmacokinetics – an actual introduction” is designed for participants without a special background in anatomy, physiology, pharmacy and biochemistry (e.g. chemists, physicists, computer scientists and others). This course may of course also be used as a refresher for participants with a background in pharmacy or medicine.

This workshop does not require any skills in pharmacology, mathematics, or statistics. The basic background to understand the principles of pharmacokinetics and pharmacodynamics will be covered in this introduction.

Time	Topic
12:00 – 01:30 PM	Definition, history, concentration, and physiological/mathematical models Drug transports (absorption, metabolism, elimination, and first-pass-effect) Willi Cawello
01:30 – 02:30 PM	Compartment-free pharmacokinetics (non-compartmental analysis), Volume of distribution and clearance, Multiple dose pharmacokinetics, Renal elimination Willi Cawello
02:30 – 03:00 PM	Break
03:00 – 03:45 PM	Bioavailability, bioequivalence, and factors of bioavailability Willi Cawello
03:45 – 04:45 PM	Introduction to biochemical Pharmacology and Toxicology Metabolism of Xenobiotics Ronald Böcker
04:45 – 05:00 PM	Break
05:00 – 07:00 PM	Compartmental pharmacokinetics, One and two compartment model after iv or oral administration Willi Cawello



Lecturers:

Ronald Böcker, PhD, Professor

Institut für Experimentelle und Klinische
Pharmakologie und Toxikologie
Fahrstrasse 17
91054 Erlangen
Germany

Willi Cawello, PhD

Senior Scientist Pharmacokinetics
SCHWARZ BIOSCIENCES GmbH
Alfred Nobel Str. 10
D40789 Monheim am Rhein
Germany