

Room	Sahachiro Hata Room	Alfred Berthelm Room	Paul Karrer Room	at IBMP
Type	Workshop lectures	Workshop lectures	Practical demonstrations	Practical demonstrations
Language	English	English	English (German)	English
Time	Introduction to PK/PD <i>(basic-beginner)</i>	Analytical theory lectures <i>(basic-beginner-intermediate)</i>	Analytical laboratory <i>(beginner-expert)</i>	Analytical laboratory <i>(beginner-expert)</i>
09:00 AM				
10:00 AM		"HPLC: Theory & practice of bioanalytical problems" Frieder Kees 10:00 AM - 11:00 AM		"LC-MS/MS: Introduction and advanced issues" <i>(interested beginners, intermediate-expert)</i> Luigi Silvestro & Simona Savu 10:00 AM - 01:00 PM
10:15 AM				
10:30 AM		"Microdialysis: Basics & principles" Christian Joukhadar, 11:15AM-11:45AM		
10:45 AM		"The role of plasma protein binding" Christian Joukhadar, 11:45AM-12:15PM	"HPLC in different matrices" <i>(intermediate-expert)</i> Frieder Kees 11:45 AM - 01:00 PM	
11:00 AM				
11:15 AM				
11:30 AM				
11:45 AM				
12:00 PM	"Pharmacokinetics - An Actual Introduction"			
12:15 PM	"Definition, history, concentration, and physiological/mathematical models, drug transports" Willi Cawello, 12:00 - 01:30 PM			Maximum number of 10 participants per half-day <i>Please assign via email to bulitta@ibmp.osn.de</i>
12:30 PM				
12:45 PM				
01:00 PM	"Compartment-free pharmacokinetics" Willi Cawello 01:30 PM - 02:30 PM			
01:15 PM				
01:30 PM				
01:45 PM				
02:00 PM				
02:15 PM				
02:30 PM				
02:45 PM				
03:00 PM	"Bioavailability, bioequivalence, and factors of bioavailability" Willi Cawello, 03:00 - 03:45 PM			
03:15 PM				
03:30 PM				
03:45 PM	"Introduction to biochemical Pharmacology and Toxicology Metabolism of Xenobiotics" Ronald Böcker, 03:45 - 04:45 PM			
04:00 PM				
04:15 PM				
04:30 PM				
04:45 PM				
05:00 PM	"Compartmental pharmacokinetics One and two compartment model after iv or oral administration" Willi Cawello 05:00 PM - 07:00 PM		"Practical demonstrations in HPLC and Microdialysis" <i>(basic-beginner)</i> Frieder Kees & Christian Joukhadar 02:00 PM - 05:00 PM	"LC-MS/MS: Introduction and advanced issues" <i>(interested beginners, intermediate-expert)</i> Luigi Silvestro & Simona Savu 02:00 PM - 05:00 PM
05:15 PM				
05:30 PM				
05:45 PM				
06:00 PM				Maximum number of 10 participants per half-day <i>Please assign via email to bulitta@ibmp.osn.de</i>
06:15 PM				
06:30 PM				
06:45 PM				

Room Type Language Time	Louis Pasteur Hall Workshop lectures English PK / PD General Concepts <i>(beginner-intermediate)</i>	Kiyoshi Shiga Room Workshop lectures English PK / PD General Concepts & Adv. Material <i>(intermediate-expert)</i>	Chain - Florey Room Workshop lectures English Analytical theory lectures <i>(basic-beginner-intermediate)</i>
07:30 AM			
08:00 AM			"Microdialysis: Basics & principles" Christian Joukhadar, 08:00AM-08:30AM
08:15 AM			"The role of plasma protein binding" Christian Joukhadar, 08:30AM-09:00AM
08:30 AM	"PK 1 Basic Principles" <i>(beginner-intermediate)</i> Michael Weiss 08:30 AM - 09:30 AM	"Clinical PK 1: Basics and overview" <i>(beginner-intermediate)</i> Roger Jelliffe 08:30 AM - 09:30 AM	
08:45 AM			
09:00 AM	"PD 1 Ligand Binding and Receptors" <i>(beginner-intermediate)</i> Nick Holford 09:30 AM - 10:30 AM	"Clinical PK 2: Ways of fitting data" <i>(intermediate)</i> Roger Jelliffe 09:30 AM - 10:30 AM	"Capillary electrophoresis: Basics and principles" Ulrike Holzgrabe 09:30 AM - 10:30 AM
09:15 AM			
09:30 AM			
09:45 AM			
10:00 AM			
10:15 AM			
10:30 AM			
10:45 AM			
11:00 AM	"PK 2 Processes" <i>(beginner-intermediate)</i> Michael Weiss 11:00 AM - 12:00 PM	"Parametric Population Modeling" <i>(intermediate-advanced)</i> Roger Jelliffe, 11:00 AM - 11:45 AM	"HPLC: Theory & practice of bioanalytical problems" Frieder Kees 10:45 AM - 11:45 AM
11:15 AM			
11:30 AM			
11:45 AM			
12:00 PM	"PD 2 Immediate Drug Effects" <i>(beginner-intermediate)</i> Nick Holford 12:00 PM - 01:00 PM	"Nonparametric Population Modeling" <i>(intermediate-advanced)</i> Roger Jelliffe, 11:45 AM - 12:30 PM	
12:15 PM			
12:30 PM			
12:45 PM			
01:00 PM			
01:15 PM			
01:30 PM			
01:45 PM			
02:00 PM	"PK 3 Data Analysis I: Compartmental and noncompartmental models" Michael Weiss, 02:00 PM - 02:45 PM		
02:15 PM			
02:30 PM	"Population Data Analysis" Nick Holford 02:45 PM - 03:30 PM	"Tissue Distribution: Modeling Diffusion, Modeling Bacterial growth / kill, PAE" Roger Jelliffe 02:30 PM - 03:30 PM	
02:45 PM			
03:00 PM			
03:15 PM			
03:30 PM			
03:45 PM			
04:00 PM	"Common Parallel Discussion" Nick Holford & Michael Weiss 04:00 PM - 04:30 PM	"PD relationships for anti-infective drugs" George Drusano, 03:30 PM - 04:00 PM	
04:15 PM			
04:30 PM		"Erythropoietin - childhood renal anemia" Rüdiger Port, 04:00 PM - 04:30 PM	
04:45 PM			

Room	Piazza	Paul Karrer Room	at IBMP
Type	Software Demo & Discussions	Practical demonstrations	Practical demonstrations
Language	English	English (German)	English
Time	PK / PD Laboratory	Analytical laboratory	Analytical laboratory
<u>07:30 AM</u>	<i>(beginner-expert)</i>	<i>(beginner-expert)</i>	<i>(intermediate-expert)</i>
08:00 AM	"PK/PD Laboratory - Hands-on PK evaluation"	"HPLC: General introduction" <i>(beginner-intermediate)</i> Frieder Kees 08:00 AM - 10:00 AM	"LC-MS/MS: Introduction and advanced issues" <i>(interested beginners, intermediate-expert)</i> Luigi Silvestro & Simona Savu 10:00 AM - 01:00 PM
08:15 AM			
08:30 AM			
08:45 AM	"Bring your own data"		
09:00 AM	"See how experts analyze them"		
09:15 AM	"Develop strategies of PK/PD analysis"		
09:30 AM			
09:45 AM			
10:00 AM	Dan Weiner & Abid Sattar		
10:15 AM			
10:30 AM		"Microdialysis: General introduction" <i>(beginner-intermediate)</i> Christian Joukhadar 10:30 AM - 12:30 PM	
10:45 AM	08:00 AM - 05:00 PM		
11:00 AM			
11:15 AM			
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01:15 PM			
01:30 PM		"HPLC: Advanced issues" <i>(intermediate-advanced)</i> Frieder Kees 01:00 PM - 03:00 PM	
01:45 PM			
02:00 PM			
02:15 PM			
02:30 PM			
02:45 PM			
03:00 PM		"Microdialysis: Advanced issues" <i>(intermediate-advanced)</i> Christian Joukhadar 03:00 PM - 05:00 PM	
03:15 PM			
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04:45 PM			

Maximum number of
10 participants per half-day
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Room Type Language Time	Louis Pasteur Hall Workshop lectures English PK / PD General Concepts <i>(beginner-intermediate)</i>	Chain - Florey Room Workshop lectures English Applications in Anticancer Drug Therapy <i>(beginner-intermediate)</i>	Kiyoshi Shiga Room Workshop lectures English PK / PD General Concepts & Adv. Material <i>(intermediate-expert)</i>
07:30 AM			
08:00 AM			
08:15 AM			
08:30 AM	"Advanced PK 4: Multiple Dosing, Nonlinear PK" Michael Weiss 08:30 AM - 09:30 AM		"Advanced PK 3: Antiepileptic drug models" Irina Bondareva, 08:30 AM - 09:00 AM
08:45 AM			
09:00 AM			
09:15 AM			
09:30 AM	"PD 3 Delayed Drug Effects: Distribution & Physiological Delay, Turnover Models" Nick Holford 09:30 AM - 10:30 AM		"Combination chemotherapy - Monte-Carlo simulation: from PK/PD" George Drusano, 09:45 AM - 10:30 AM
09:45 AM			
10:00 AM			
10:15 AM			
10:30 AM			
10:45 AM			
11:00 AM	"Advanced PK 5: Data Analysis II Oral Administration, Metabolite PK" Michael Weiss 11:00 AM - 12:00 PM		"Applied Clinical PK 4: Getting Nonparametric Bayesian Posteriors, Dosage Individualization" Roger Jelliffe 11:00 AM - 12:00 PM
11:15 AM			
11:30 AM			
11:45 AM			
12:00 PM	"PD 4 Exposure Response: Cumulative Effects and Schedule Dependence" Nick Holford 12:00 PM - 01:00 PM		"Aminoglycoside ototoxicity" Roger Jelliffe, 12:00 PM - 12:30 PM
12:15 PM			
12:30 PM			
12:45 PM			
01:00 PM			"Introduction to Clinical Cases" Roger Jelliffe, 12:30 PM - 01:00 PM
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01:30 PM			
01:45 PM			
02:00 PM			
02:15 PM			
02:30 PM	"Physiologically Based PK" Michael Weiss 02:30 PM to 4:30 PM Sahachiro Hata Room	"Clinical Pharmacology = Disease Progression + Drug Action" Nick Holford 02:30 PM - 04:30 PM Louis Pasteur Hall	"Pharmacokinetics of high- molecular anticancer agents" Charlotte Kloft
02:45 PM			
03:00 PM			
03:15 PM			
03:30 PM			
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04:45 PM			
		"Surrogate parameters in cancer chemotherapy" Ulrich Jaehde	
		"Tissue pharmacokinetics with non-invasive measurements" Rüdiger Port 02:30 PM - 05:00 PM	
			"Advanced Clinical PK 5: More clinical case histories (vancomycin, digoxin, gentamicin, and tobramycin)" Roger Jelliffe 02:30 PM - 04:30 PM

Room
Type
Language

Alfred Bertheim Room

Workshop lectures
English

ISAP Workshop**International Society of Anti-Infective Pharmacology***(beginner-advanced)***Sahachiro Hata Room**

Workshop lectures
English

**PK/PD: Practical Analyses, Design and Statistics
Industry Perspective & Computational Chemistry***(beginner-advanced)*

Time
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"Preclinical PK and PD of Anti-infective Agents"		
<i>(beginner)</i>		
Johan W. Mouton, Hartmut Derendorf		
08:00 AM - 10:30 AM		
"Introduction to PK/PD"	Hartmut Derendorf	08:00-08:25 AM
"PK/PD indices"	Johan W. Mouton	08:25-08:50 AM
"Protein Binding/Tissue Distribution"	Ursula Theuretzbacher	08:50-09:15 AM
"In vitro models"	Johan W. Mouton	09:15-09:40 AM
"Animal models"	William A. Craig	09:40-10:05 AM
"In vitro resistance"	Otto Cars	10:05-10:30 AM

"Clinical Relevance of PK and PD of Anti-infective Agents"		
<i>(intermediate-advanced)</i>		
Johan W. Mouton		
11:00 AM - 01:30 PM		
"Clinical applications of PK/PD"	Paul M. Tulkens	11:00-11:25 AM
"Drug exposure at infection site"	Markus Müller	11:25-11:50 AM
"PK/PD of antivirals"	George L. Drusano	11:50-12:15 PM
"PK/PD of antifungals"	Johan W. Mouton	12:15-12:40 PM
"Clinical resistance"	Otto Cars	12:40-01:05 PM
"Clinical dose optimization"	Paul M. Tulkens	01:05-01:30 PM

"PK/PD Modeling of Anti-infective Agents"		
<i>(intermediate-advanced)</i>		
Hartmut Derendorf		
02:30 PM - 05:00 PM		
"In vitro MIC based PK/PD"	Johan W. Mouton	02:30-02:55 PM
"PK/PD in animals"	William A. Craig	02:55-03:20 PM
"PK/PD based on kill curves"	Hartmut Derendorf	03:20-03:45 PM
"Population PK/PD"	Alan Forrest	03:45-04:10 PM
"Modeling of anti-infective activity"	Alan Forrest	04:10-04:35 PM
"Monte Carlo Simulations"	George L. Drusano	04:35-05:00 PM

"From analytical concentration-time raw data to final statistical results within minutes"
<i>(beginner-intermediate)</i>
Abid Sattar, 08:00 AM - 09:00 AM
"Role of PK/PD in drug development – A regulatory point of view"
<i>(beginner-intermediate-advanced)</i>
Dan Weiner, 09:00 AM - 10:00 AM
Optimizing drug development: Computer Assisted Trial Design
Dan Weiner, 10:00 - 10:45 AM <i>(beginner-adv.)</i>

"Strategies for assessment of bioequivalence"
<i>(beginner-intermediate-advanced)</i>
Dan Weiner
11:00 AM - 12:00 PM
"In silico prediction of PK via computer chemistry"
Jürgen Bulitta, 12:00 PM - 12:30 PM <i>(beginner-int.)</i>
"Exploring structure and function of peptides and proteins with homology modeling and molecular dynamics simulations"
Harald Lanig, 12:30 - 01:30 PM <i>(beginner-int.)</i>
Common Discussion, 01:30 PM - 01:45 PM

Room Type Language Time <hr/>	Piazza Software Demo & Discussions English PK / PD Laboratory <i>(beginner-expert)</i>	Paul Karrer Room Practical demonstrations English and German Analytical laboratory <i>(beginner-expert)</i>
08:00 AM 08:15 AM 08:30 AM 08:45 AM 09:00 AM 09:15 AM 09:30 AM 09:45 AM 10:00 AM 10:15 AM 10:30 AM 10:45 AM 11:00 AM 11:15 AM 11:30 AM 11:45 AM 12:00 PM 12:15 PM 12:30 PM 12:45 PM 01:00 PM 01:15 PM 01:30 PM 01:45 PM 02:00 PM 02:15 PM 02:30 PM 02:45 PM 03:00 PM 03:15 PM 03:30 PM 03:45 PM 04:00 PM 04:15 PM 04:30 PM 04:45 PM	<p>"PK/PD Laboratory - Hands-on PK evaluation"</p> <p>"Bring your own data"</p> <p>"See how experts analyze them"</p> <p>"Develop strategies of PK/PD analysis"</p> <p>Dan Weiner & Abid Sattar</p> <p>08:00 AM - 05:00 PM</p>	<p>"Discussions at the HPLC and Microdialysis Instruments"</p> <p>Christian Joukhadar & Frieder Kees</p> <p>08:00 AM - 04:30 PM</p> <p><i>Please contact Dr. Joukhadar and Professor Kees on Monday, Tuesday or Wednesday morning to arrange a time for your personal questions / discussions.</i></p>