

2019 Pharmacokinetic Course				
Theme	Time	Dur.	Topic	Tutors
Monday July 1				
	8:15		Check-in - light breakfast	
	8:45		Welcome / Introduction	Price
Primer 1	9:00	60	Physics - Primer	Lubberink
	9:00	60	Math - Primer	Gunn
	9:00	60	Pharmacology - Primer	Knudsen
Primer 2	10:00	60	Physics - Primer	Normandin
	10:00	60	Math - Primer	Barret
	10:00	60	Pharmacology - Primer	Fregonara
Introduction	11:00		Coffee + Software Installation	
	11:30	25	Images, Image processing, ROIs, Partial Volume	Lubberink
	11:55	25	Data Types, Input Functions, Time Activity Curves, Cross-calibration	Price
	12:20		Lunch	
Modeling Basics	13:20	30	One-Tissue and Two-Tissue Compartment Models	Barret
	13:50	20	Extraction and Blood Flow	Price
	14:10		Computer Exercise 1A,B,C: Exponentials Convolutions Extraction	
	14:40	15	FDG and Glucose Metabolism	Carson
	14:55		Computer Exercise 2: Models and Rate Constants	
	15:10		Coffee	
Applications	15:40	30	Parameter Estimation and Model Selection	Carson
	16:10		Computer Exercise 3: Parameter Estimation	
	16:40	30	Oncology: Response Monitoring & Prediction	Lammertsma
	17:10	30	Cardiology: Quantitative PET in cardiology	Lubberink
	17:40	20	Questions/Discussion	Price
	18:00		Day 1 - Close	Lubberink
		605	Social Event	
Tuesday July 2				
	9:00	30	Questions/Feedback	Lammertsma
	9:30	60	In-Vitro/In-Vivo Receptor Binding	Normandin
	10:30		Coffee	Fregonara
Receptors and Related Methods	11:00	30	Receptor Kinetics	Lammertsma
	11:30	30	Linearizations (Patlak, Logan, others)	Price
	12:00	30	Guess the Model	Lammertsma
	12:30		Lunch	
	13:30	30	Reference Tissue Approaches	Normandin
	14:00		Computer Exercise 4: Reference tissue methods	
	14:30	30	Receptor Kinetics - In Vivo Pharmacology	Knudsen
	15:00		Coffee	
	15:30	30	Irreversible Kinetics	Barret
	16:00		Computer Exercise 5: Linear Methods	
	16:15	30	Steady State Methods	Carson
16:45		Computer Exercise 6: Bolus/Infusion		
17:00	30	Validation of a Novel Radioligand	Knudsen	
	17:30		Day 2 - Close	
		360	Social Event	
Wednesday July 3				
	9:00		Breakout Session with Tutors	All
	10:00		Coffee	
Applications	10:20		Breakout Highlights	All
	10:45	30	Neuroscience: Amyloid Ligand Modeling	Price
	11:15	30	Neuroscience: Synaptic Density	Carson
	11:45	30	Neuroscience: Neuroinflammation	Gunn
	12:15	30	Review: The Beautiful World (including data-driven methods)	Gunn