

2022 Pharmacokinetic Course		Edinburgh Radisson Blue Hotel, 80 High Street, The Royal Mile, EH1 1TH		
Theme	Time	Dur.	Topic	Tutors
<b>Thursday May 26</b>				
	8:15	30	Check-in - light breakfast	
	8:45	15	Welcome / Introduction	Knudsen
Primer 1	9:00	60	Physics - Primer	Golla
	9:00	60	Math - Primer	Price
	9:00	60	Pharmacology - Primer	Knudsen
Primer 2	10:00	60	Physics - Primer	Lubberink
	10:00	60	Math - Primer	Barret
	10:00	60	Pharmacology - Primer	Fregonara
	11:00	30	Coffee + Software Installation	
Introduction	11:30	25	Images, Image processing, ROIs, Partial Volume	Golla
	11:55	20	Data Types, Input Functions, Metabolites, Protein binding, Cross-	Price
	12:15	60	Lunch	
Modeling Basics	13:15	30	One-Tissue and Two-Tissue Compartment Models	Lammertsma
	13:45	20	Extraction and Blood Flow	Price
	14:05	30	Computer Exercise 1A,B,C: Exponentials Convolutions Extraction	
	14:35	30	Coffee	
	15:05	15	FDG and Glucose Metabolism	Rizzo
	15:20	20	Computer Exercise 2: Models and Rate Constants	
	15:40	30	Parameter Estimation and Model Selection	Carson
	16:10	30	Computer Exercise 3: Parameter Estimation	
Applications - 1	16:40	25	Oncology: Whole Body FDG PET & Response Monitoring	Lammertsma
	17:05	25	Cardiology: Quantitative PET in cardiology	Lubberink
	17:30	30	Questions/Discussion	Gunn
	18:00		Day 1 - Close Casual dinner at Bonnie and Wild, top of the St James Centre, Edinburgh	
<b>Friday May 27</b>				
Receptors and Related Methods	9:00	30	Questions/Feedback	Lubberink
	9:30	60	In-Vitro/In-Vivo Binding and 3 binding potentials	Fregonara
	10:30	30	Coffee	
	11:00	30	Receptor Kinetics	Carson
	11:30	30	Linearizations (Patlak, Logan, others)	Rizzo
	12:00	30	Guess the Model	Lammertsma
	12:30	60	Lunch	
	13:30	30	Reference Tissue Approaches	Barret
	14:00	30	Computer Exercise 4: Reference tissue methods	
	14:30	30	Neuroscience: Synaptic Density	Carson
	15:00	30	Coffee	
	15:30	30	Irreversible Kinetics	Barret
	16:00	15	Computer Exercise 5: Linear Methods	
	16:15	30	Steady State Methods	Carson
	16:45	15	Computer Exercise 6: Bolus/Infusion	
	17:00	30	Neuroscience: In Vivo Pharmacology	Gunn
	17:30		Day 2 - Close	
	18:00		Dinner Reception Sit down dinner: Playfair Hall at the Surgeons Quarter, Edinburgh	
<b>Saturday May 28</b>				
Applications - 2	9:00	60	Breakout Session with Tutors	All
	10:00	30	Coffee	
	10:30	30	Breakout Highlights	All
	11:00	30	Neuroscience: Amyloid and Tau Ligand Modeling	Price
	11:30	30	Neuroscience: Serotonin Receptor Imaging	Knudsen
	12:00	30	Neuroscience: Neuroinflammation	Rizzo
	12:30	30	Review: The Beautiful World (including data-driven methods)	Gunn
	12:50	20	Review: The Real World	Gunn
	12:50	10	Wrap Up - BrainPET Glasgow Info	Knudsen
	1:00		Day 3 - Close, Lunch and Departure to BrainPET	

**Key**

Social Programme
Tutorials
Lectures
Application Lectures
Computer Exercises
Discussion /
Breakouts