

Professor Alain Bousquet-Mélou and colleagues propose a new 5-day workshop on PK/PD modelling. The workshop will be held in Toulouse from Monday 27 June to Friday 1st July 2016. There is a maximum of 25 places available. Please find the provisional program [here](#) .

This 5-day workshop is designed for ECVPT residents, PhD students and professionals in academia, industry, or regulatory authorities, working in veterinary pharmacology who wish to improve their pharmacokinetic, toxicokinetic and pharmacodynamic modelling skills. The workshop includes a combination of lectures aiming at presenting key technical and theoretical modelling issues. The content presented and discussed in the lectures will then be illustrated by a series of computer-based hands-on case studies.

The hands-on exercises will be performed in round-table setting. All participants are required to bring their own laptop computer. The participants will be guided through the exercises by instructors with the help of an overhead projector. Active participation in discussions in class is essential.

If you are interested in attending please fill up the registration form available [here](#) . This is not a guarantee of a place at the workshop. Registration confirmation will be sent out and payment in full must be received 3 weeks before starting date.

DAY1 - Monday

08:30-9:00

Meet & Greet – An overview of the course

ALAIN BOUSQUET-MELOU

09:00-10:30

Lecture 1

Linearity vs. Non-linearity & Linear vs non-linear regression concepts that will be used during the course

DIER CONCORDET

10:30-11:00

Morning break, coffee

11:00-12:00

Lecture 2

Bioanalytical method validation for pharmacokinetic studies, agreement of an analytical technique

Marlene LACROIX

12:00-13:30

Lunch

13:30-15:00

Exercise 1

Working with different softwares: introduction to Excel® & Phoenix®.exporting results in Excel and

PIERRE-LOUIS TOUTAIN and others

15:00-16:00

Exercise 2

Validation of bioanalytical methods

Notion of residuals, weighting factors as proposed by Phoenix/WNL but also $1/X$ and $1/X^2$ using a u

PIERRE-LOUIS TOUTAIN and Marlene LACROIX

16:00-16:30

Afternoon break, coffee

16:30-18h

Exercise 2

Continued

DAY2 - Tuesday

8:30-10:00

Lecture 3

Body clearance: an overview

PIERRE-LOUIS TOUTAIN

10:00-10:45

Lecture 4

Half-life: an overview

PIERRE-LOUIS TOUTAIN

10:45-11:15

Morning break, coffee

11:15-12:00

Lecture 5

Volume of distribution: an overview

ALAIN BOUSQUET-MELOU

12:00-13:30

Lunch

13:30:14:30

Lecture 6

Bioavailability and extent): protocols (plasma, urine, metabolites), estimation, interpretation

ALAIN BOUSQUET-MELOU

14:30-15:00

Lecture 7

Modeling goal, main concepts, usefulness, limits ...of different classes of PK models (The primary goal

PIERRE-LOUIS TOUTAIN

15:00-16:00

Exercise 3

Phoenix WinNonlin one compartment model

PIERRE-LOUIS TOUTAIN and others

16:00-16:30

Afternoon break, coffee

16:30-18:00

Exercise 3

continued

DAY3 - Wednesday

8:30-9:30

Lecture 8

Estimation of Withdrawal times

AUDE FERRAN

9:30-10:30

Lecture 9

Dose linearity vs. dose proportionality

PIERRE-LOUIS TOUTAIN

10:30-11:00

Morning break, coffee

11:00-12:00

Exercise 4

Computation of (E Withdrawal) period the EMA software (WT 1.4 by P Heckman)

PIERRE-LOUIS TOUTAIN and AUDE FERRAN

12:00-13:30

Lunch

13:30:15:00

Exercise 5

Dose-linearity and dose-proportionality

PIERRE-LOUIS TOUTAIN

15:00-15:30

Afternoon break, coffee

15:30-16:30

Lecture 10

Non-compartmental analysis

ALAIN BOUSQUET-MELOU

16:30-18:00

Exercise 6

Non-compartmental analysis of the kinetic of drug disposition and physiological interpretation

ALAIN BOUSQUET-MELOU

DAY4 - Thursday

9:00-10:00

Lecture 11

Bioequivalence presentation of the last veterinary EMA guideline:

PIERRE-LOUIS TOUTAIN

10:00-10:30

Morning break, coffee

10:30-12:00

Exercise 7

Bioequivalence Analysis: practical class on design and analysis of bioequivalence studies

PIERRE-LOUIS TOUTAIN

12:00-13:30

Lunch

13:30-16:00

Exercise 8

Use of Fibers for more complex medial analysis with Simultaneous IV, oral and IM dosing for a new

PIERRE-LOUIS TOUTAIN and others

16:00-16:30

Afternoon break, coffee

16:30-18:00

Exercise 9

Deconvolution analysis including the local onset process of drug absorption (model based)

PIERRE-LOUIS TOUTAIN

19:30

Workshop diner

DAY5 - Friday

09:00-10:00

Lecture 12

Plasma protein binding: an overview

ALAIN BOUSQUET-MELOU

10:00-10:30

Morning break, coffee

10:30-12:00

Exercise 10

Estimation of B_{max} , K_d and NS using linear and non-linear regression

PIERRE-LOUIS TOUTAIN

12:00-13:30

Lunch

13:30-16:00

Exercise 11

How to build a rather advanced model using the Graphical model editor of Phoenix

PIERRE-LOUIS TOUTAIN

16:00-16:30

Afternoon break, coffee

16:30-17:00

End of the workshop and debriefing

ALAIN BOUSQUET-MELOU