

Workshop on Basic Mechanisms in PK and PD-- Preliminary Program.
(Michael Weiss and Nick Holford)

Tuesday Sept 7, 2004

8:30 Beginning PK 1- MW

[Michael --- please put an outline here]

9:30 PD 1 Ligand Binding and Receptors - NH

Receptors and binding sites

Specific binding and non-saturable binding

Occupancy, Stimulus and Response models

10:30 Coffee

11:00 Beginning PK 2 - MW

[Michael --- please put an outline here]

12:00 PD 2 Immediate Drug Effects - NH

The Emax and Sigmoid Emax models of drug action

Time course of drug effect

Duration of drug effect

13:00 Lunch

14:30 Parallel Sessions

Intermediate PK - MW

[Michael --- please put an outline here]

Target Concentration Intervention - NH

The quantitative basis for selecting dose individualization methods

Identification of predictable and random components of patient variability

Why knowing safe and effective variability is important

16:30 End

Wednesday Sept 8, 2004

8:30 Advanced PK 3 - MW

[Michael --- please put an outline here]

9:30 PD 3 Delayed Drug Effects - NH

Distribution delay and the effect compartment

Physiological delay and the turnover model family

Thiopentone, digoxin, warfarin, anti-depressants

10:30 Coffee

11:00 Advanced PK 4 - MW

[Michael --- please put an outline here]

12:00 PD 4 Exposure Response - NH

What does exposure mean?

Cumulative effects and schedule dependence

Diuretics and anti-cancer agents

13:00 Lunch

14:30 Parallel Sessions

PK topic - MW

[Michael --- please put an outline here]

Clinical Pharmacology=Disease Progression + Drug Action - NH

Introduction to the concepts of disease progression modelling

Application to clinical pharmacology and drug development

Alzheimer's disease and Parkinson's disease

16:30 End